



# तमिलनाडु केन्द्रीय विश्वविद्यालय

(संसद द्वारा पारित अधिनियम 2009 के अंतर्गत स्थापित)

CENTRAL UNIVERSITY OF TAMIL NADU

(Established by an Act of Parliament, 2009)

नीलक्कुडी परिसर/Neelakudi

Campus, कंगलान्चेरी/Kangalancherry, तिरुवारूर/Thiruvarur - 610 005



## INTERNAL QUALITY ASSURANCE CELL

### The Annual Quality Assurance Report (AQAR 2018-2019) of the IQAC

(Period from 1<sup>st</sup> July 2018 to 30<sup>th</sup> June 2019)

#### PART – A

#### Data of the Institution:

- Name of the Institution : Central University of Tamil Nadu, Thiruvarur  
Name of the Head of the Institution : Prof. A. P. Dash  
Designation : Vice Chancellor  
Does the institution function from own campus: Yes  
Phone No. / Alternate phone no. : 04366-277351, 277230, 277370  
Mobile Number : 94890-54251, 94890-54274  
Registered Email id : registrar@cutn.ac.in  
Alternate Email id : iqac@cutn.ac.in  
Address : Central University of Tamil Nadu, Neelakudi Campus  
City / Town : Thiruvarur  
State / UT : Tamil Nadu  
Pin Code : 610 005
- Institutional Status:
  - ❖ University : State / **Central** / Deemed / Private ✓
  - ❖ Type of Institution : **Co-education**/Men/Women ✓
  - ❖ Location : **Rural** / Semi-urban / Urban ✓
  - ❖ Financial Status : **Central funded** / State-funded / Private ✓
  - ❖ Name of the IQAC Co-ordinator / Director: **Prof. Sulochana Shekhar**
  - ❖ Phone No. / Alternate Phone No. : 04366-277370
  - ❖ Mobile : 8123127188
  - ❖ IQAC e-mail address : iqac@cutn.ac.in, office\_iqac@cutn.ac.in
  - ❖ Alternate Email address : sulochana@cutn.ac.in

3. Website address:

Web-link of the AQAR:

(Previous Academic Year): <http://www.cutn.ac.in/AQAR2017-2018.pdf>

4. Whether Academic Calendar prepared during the year?

✓  
**Yes** / No ....., if yes, whether it is uploaded in the Institutional website:

Web-link: [https://cutn.ac.in/wp-content/uploads/2019/06/Odd\\_Semester-2019-20.pdf](https://cutn.ac.in/wp-content/uploads/2019/06/Odd_Semester-2019-20.pdf)

<https://cutn.ac.in/wp-content/uploads/2019/06/Even-Semester-2019-20.pdf>

5. Accreditation Details:

Cycle	Grade	CGPA	Year of Accreditation	Validity Period
1 <sup>st</sup>	B <sup>++</sup>	2.78	2016	16 <sup>th</sup> September 2016 - 15 <sup>th</sup> September 2021

6. Date of Establishment of IQAC: 30/06/2014

7. Internal Quality Assurance System

7.1 Quality initiatives by IQAC during the year for promoting quality culture

Item / Title of the quality initiative by IQAC	Date & duration	Number of participants/beneficiaries
Regular IQAC meetings: 1. Workplan 2. Course of action 3. Roadmap	1 <sup>st</sup> August 2018	09 / CUTN
	4 <sup>th</sup> September 2018	10 / CUTN
	7 <sup>th</sup> December 2018	08 / CUTN
	18 <sup>th</sup> December 2018	05 / CUTN
	23 <sup>rd</sup> January 2019	15 / CUTN
	7 <sup>th</sup> March 2019	06 / CUTN
	3 <sup>rd</sup> April 2019	06 / CUTN
	14 <sup>th</sup> May 2019	07 / CUTN
27 <sup>th</sup> June 2019	06 / CUTN	
"One day with IQAC" Interaction with Heads and other Academic & Administrative staffs	6 <sup>th</sup> July 2018	09 / CUTN
	10 <sup>th</sup> July 2018	09 / CUTN
	13 <sup>th</sup> July 2018	07 / CUTN
	20 <sup>th</sup> December 2018	20 / CUTN
To brief about feedback and SSS Regular Meeting with students	26 <sup>th</sup> September 2018	85 / Faculties & Students
	29 <sup>th</sup> October 2018	85 / Faculties & Students
	7 <sup>th</sup> March 2019	83 / Faculties & Students
Participation in Ranking:- NIRF 2019 & ARIIA 2019	ARIIA 2019 (31 <sup>st</sup> January 2019) and NIRF 2019 (October 2018)	CUTN

**Note: Some Quality Assurance initiatives of the institution are:**

- ❖ A regular meeting of Internal Quality Assurance Cell (IQAC); timely submission of Annual Quality Assurance Report (AQAR) to NAAC; Feedback from all stakeholders collected, analyzed and used for improvement.
- ❖ Academic Administrative Audit (AAA) conducted and necessary follow up action initiated.
- ❖ Participation in NIRF
- ❖ Participation in ARIIA Ranking

8. Provide the list of Special Status conferred by Central / State Government: **NIL**

UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc.

Institution / Department / Faculty	Scheme	Funding Agency	Year of the award with duration	Amount
Nil				

9. Whether the composition of IQAC as per latest NAAC guidelines: **Yes** / No

If yes, upload the latest notification of the formation of IQAC

10. No. of IQAC meetings held during the year: **13**

The minutes of IQAC meeting and compliance with the decisions have been uploaded on the institutional website:

✓

**Yes** / No, if yes, upload minutes of meetings and action are taken report

11. Whether IQAC received funding from any of the funding agency to support its activities during the year?

✓

Yes / **No**, if yes, mention the amount: Nil Year: Nil

12. Significant contributions made by IQAC during the current year (Maximum five bullets)

- Conducted Orientation Programme for students and collected online feedback from students and faculty.
- Initiated documentation of Fauna & Flora of CUTN campus in connection with Decennial celebration.
- Initiated e-newsletters from Departments.
- Completed the Administrative Audit and initiated campus development activities through the estate section.
- Initiated the Career Advancement Scheme promotion process for faculty members.

13. Plan of action chalked out by the IQAC in the beginning of the Academic year towards Quality Enhancement and the outcome achieved by the end of the Academic year

Plan of Action	Achievements / Outcomes
❖ Student Feedback	<ul style="list-style-type: none"> <li>❖ Results of course feedback given by the students were shared with chairpersons of BoS to incorporate the suggestions.</li> <li>❖ Online feedback results were shared with the faculty for further improvement.</li> <li>❖ Results of Feedback for Administration and Library were discussed and shared with the authorities concerned for further improvement.</li> </ul>

<b>Plan of Action</b>	<b>Achievements / Outcomes</b>
❖ Tri-partite MoU 2018-2019	❖ Progress report of Tri-partite MoU for the period from 1 <sup>st</sup> July 2018 to 30 <sup>th</sup> June 2019 was reviewed and submitted to UGC & MHRD
❖ Workshops / Training Programs/Competition	❖ A Nation-wide competition for students on essential legal provision law related to women, sponsored by the National Commission for Women, New Delhi and the Central University of Tamil Nadu was organized by the Internal Quality Assurance Cell on 30 <sup>th</sup> October 2018. ❖ IQAC designed and organized a "One-day orientation program for the Non-teaching staff" on 10 <sup>th</sup> October 2018. ❖ IQAC organized "Renga Pravesham" on 5 <sup>th</sup> September 2018 at M.P. Hall, CUTN
❖ Invited Talk by an Eminent Speaker	❖ IQAC organized "Digital Literacy and online safety program" sponsored by National Commission for Women, Cyber Peace Foundation and Facebook on 18 <sup>th</sup> December 2018 at M.P. Hall, CUTN (Mr. Sathya Narayana Subramanian, Cyber Crime Advocate expert from Cyber Peace Foundation). ❖ Mr. T. Jayaram, B.A.B.L., delivered two expert lectures on "Law related to Women" during 15 & 16 October 2018 and 130 students attended the program.
Feedback from other stakeholders (Alumni & Parents' feedback)	❖ Manual feedback templates were prepared and circulated among Alumni and Parents. ❖ Facilitated departments to conduct regular parents meeting. ❖ Alumni meeting conducted through CUTN Alumni Association.
NAAC Accreditation	❖ Being Initiated
To conduct the Internal Academic & Administrative Audit for all the departments and other sections/cells and Clubs for the effective functioning	❖ Administrative Audit was conducted by IQAC team members and appraised to the Administrative authority for necessary action.

- ✓
14. Whether the AQAR was placed before a statutory body? **Yes** / No  
 Name of the statutory body: **Academic Council meeting on 19<sup>th</sup> February 2020.**
15. Whether NAAC / or any other accredited body(s) visited IQAC or interacted with it to Assess the functioning?  
 Yes / **No** ✓ Date: Nil
16. Whether institutional data submitted to AISHE: **Yes** / No ✓  
 Year: 2018      Date of Submission: 30<sup>th</sup> September 2018
17. Does the Institution have a Management Information System? Yes / **No** ✓  
 If yes, give a brief description and a list of modules currently operational. (Maximum 500 words)

## Criteria I – Curricular Aspects

### 1.1 Curriculum Design and Development

#### 1.1.1 Programmes for which syllabus revision was carried out during the Academic Year

Name of the Programme	Programme Code	Date of revision
M.A. Hindi	1201	06-08-2018
Ph.D. Hindi	1203	06-08-2018
M.Sc. Microbiology	2003	31-08-2018
I M.Sc. Life Sciences	0602	14-09-2018
B.P.A Music	1401	28-02-2019
M.Sc. Applied Psychology	2101	02-05-2019
M.Tech. Materials Science	1001	03-05-2019

#### 1.1.2 Programmes / Courses focussed on employability/entrepreneurship/Skill development during the Academic Year

Programme with Code	Date of Introduction	Course with Code	Date / Month of Introduction
M.A. Mass Communication (802)	July 2018	Graphic Design (MCE01)	July 2018
M.A. Mass Communication (802)	July 2018	Photography (MCE02)	July 2018

### 1.2 Academic Flexibility

#### 1.2.1 New programmes/courses introduced during the Academic year.

NEW PROGRAMMES LAUNCHED 2018-19		
Name of the Programmes with code	Department	School
M.Phil. Applied Psychology (2102)	Applied Psychology	Behavioural Sciences
Ph.D. Applied Psychology (2103)		
M.Phil. Library & Information Sciences (1902)	Library & Information Science	Communication
Ph.D. Library & Information Sciences (1903)		
Ph.D. Mass Communication (0804)	Media & Communication	
M.Phil. Mass Communication (0805)		
M.Phil. Management (1805)	Management	Commerce & Business Management
Ph.D. Management (1806)		
M.Phil. Commerce (1702)	Commerce	
Ph.D. Commerce (1703)		
M.Phil. Mathematics (0203)	Mathematics	Mathematics & Computer Sciences
M.Phil. Computer Sciences (1301)	Computer Sciences	
M.Phil. Tamil (0703)	Tamil	Social Sciences and Humanities
M.Phil. English (0103)	English	
M.Phil. Social Work (0903)	Social Work	
M.Phil. Music (1402)	Music	Performing Arts & Fine Arts
Ph.D. Music (1403)		

Name of the Programmes with code	Department	School
M.Phil. Physics (0403)	Physics	Basics and Applied Sciences
M.Phil. Geography (2202)	Geography	Earth Sciences
Ph.D. Geography (2203)		
Ph.D. Microbiology (2001)	Microbiology	Life Sciences
Ph.D. Epidemiology & Public Health (1503)	Epidemiology & Public Health	

1.2.2 Programmes in which Choice Based Credit System (CBCS) / Elective Course system implemented at the university level during the Academic Year.

Name of the programme / Specialization adopting CBCS	Date of implementation of CBCS/Elective Course System
B.P.A. Music	25.06.2018
Int. B.Sc. B.Ed. Mathematics	25.06.2018
Int. M.Sc. Chemistry	25.06.2018
Int. M.A. Economics	25.06.2018
Int. M.Sc. Life Sciences	25.06.2018
Int. M.Sc. Mathematics	25.06.2018
Int. M.Sc. Physics	25.06.2018
M.Sc. Applied Psychology	25.06.2018
M.Sc. Chemistry	25.06.2018
M.Com. Commerce	25.06.2018
M.Sc. Computer Sciences	25.06.2018
M.A. Classical Tamil	25.06.2018
M.A. Economics	25.06.2018
M.Sc. Epidemiology & Public Health	25.06.2018
M.A. English studies	25.06.2018
M.Sc. Geography	25.06.2018
M.A. Hindi	25.06.2018
M.A. History	25.06.2018
M.Lib.I.Sc	25.06.2018
Master of Business Administration	25.06.2018
M.Tech. Materials Science	25.06.2018
M.Sc. Microbiology	25.06.2018
M.A. Mass Communication	25.06.2018
Master of Social Work	25.06.2018

### 1.3 Curriculum Enrichment

1.3.1 Value-added courses imparting transferable and life skills offered during the year.

Value-added courses	Date of introduction	Number of students enrolled
Elective (SWAYAM course) "Programming data structure, and algorithm using python" – PHYSYM01	25 <sup>th</sup> June 2018	31
Dairy food Process and Product Technology – SLMOOCs1 (NPTEL based elective course)	28 <sup>th</sup> July 2018	32
Employability Skill Training Programme	August 2018	141
AECC-CYBER Security	December 2018	65
Elective (SWAYAM module course) "Physical Principles governing Astrophysical Processes"	16 <sup>th</sup> January 2019	31
Generic Elective: Application of Geoinformatics	16 <sup>th</sup> Jan 2019	08

### 1.3.2 Field Projects / Internships undertaken during the year

<b>Project / Programme Title</b>	<b>Programme Specialization</b>	<b>No. of students enrolled for Field Projects / Internships</b>
Integrated (PG)	M.A Economics	35
Integrated (PG)	M.Sc Physics	3
Integrated (PG)	M.Sc Chemistry	25
M.Sc	Microbiology	10
M.A	History	4
M.Sc	Geography	15
M.Sc	Epidemiology & Public Health	37
M.Sc	Computer Science	4
MSW	Master of Social Work	109
M.Sc	Applied Psychology	90
M.Com	Commerce	23
M.A	Mass Communication	38
Integrated (PG)	M.Sc Mathematics	5
M.Lib.I.Sc	Library Science	15
M.Tech	Materials Science	1
M.B.A	Master of Business Administration	66

## 1.4 Feedback System

### 1.4.1 Whether structured feedback received from all the stakeholders

<b>1) Student</b>	<b>2) Teachers</b>	<b>3) Employers</b>	<b>4) Alumni</b>	<b>5) Parents</b>
✓ Yes / No	✓ Yes / No	✓ Yes / No	✓ Yes / No	✓ Yes / No

### 1.4.2 How the feedback obtained is being analyzed and utilized for the overall development of the institution (maximum 500 words)

- To evaluate and improve the performance of the faculty, feedback is being obtained every semester from the students. The feedback is regarding both, academic performance and inter-personal relationship criteria of the respective faculty. The obtained feedback is analyzed by a committee and then forwarded to the individual faculty/department for their personal development. Further actions are strategized to reduce the causes of disruption. The course-wise feedback helps to revise/update the existing curriculum. Students' feedback for Administration is collected at the end of every academic year and the same is analyzed for improving the facilities provided to the students and the ambiance provided by the Institute.
- Faculty feedback is collected every year and analyzed immediately. Alumni meetings and parents-teachers meetings are conducted at the departmental/institute level. The feedback and suggestions collected are duly weighed and valid suggestions are given due importance. Initiatives are taken to incorporate such feedback and suggestions in the next semester or year.



## Criteria II – Teaching, Learning, and Evaluation

### 2.1 Student Enrolment and Profile

#### 2.1.1 Demand Ratio during the year\*

Name of the programme	Number of seats available	Number of applications received	Students Enrolled
B.P.A. Music	15	487	12
Int. B.Sc. B.Ed. Mathematics	50	2963	46
B.Sc., Textiles*	80	1293	72
Int. M.Sc. Chemistry	30	5915	26
Int. M.A. Economics	30	1940	31
Int. M.Sc. Life Sciences	30	3611	30
Int. M.Sc. Mathematics	30	4440	28
Int. M.Sc. Physics	30	5967	23
M.Sc. Applied Psychology	20	711	20
M.Sc. Chemistry	16	1862	16
M.Com.	40	645	35
M.Sc. Computer Sciences	20	385	20
M.A. Classical Tamil	20	45	20
M.A. Economics	20	1078	17
M.Sc. Epidemiology & Public Health	15	262	15
M.A. English studies	20	1169	18
M.Sc. Geography	30	227	21
M.A. Hindi	20	79	7
M.A. History	20	221	17
M.Lib.I.Sc	15	68	15
Master of Business Administration	40	1430	41
M.Tech. Materials Science	30	206	21
M.Sc. Microbiology	30	1353	25
M.A. Mass Communication	30	507	22
Master of Social Work	20	861	18
P.G. Diploma in Chemical Lab Technician	8	539	7
Ph.D. Chemistry	2	344	2
M.Phil. Chemistry	13	(187+157)	0
M.Phil. Geography	6	68	1
M.Phil. Commerce	9	97	3
M.B.A. Textile Management*	40	328	7
M.B.A. Retail Management*	40		7
M.B.A. Apparel Quantitative Finance*	40		34
M.A. General Economics*	50	1400	49
M.A. Financial Economics*	50	1514	45
M.A. Applied Quantitative Finance*	50	582	42
M.A. Actuarial Economics*	30	576	19
M.A. Environmental Economics*	30	412	27
Ph.D. Applied Psychology	3	118	3
Ph.D. Commerce	5	305	5
Ph.D. Computer Science	2	341	2
Ph.D. Economics	2	208	0
Ph.D. Education	1	95	1
Ph.D. English	1	890	1
Ph.D. Epidemiology & Public Health	1	43	1



Name of the programme	Number of seats available	Number of applications received	Students Enrolled
Ph.D. Geography	4	170	4
Ph.D. Hindi	1	137	1
Ph.D. Library & Info. Sciences	2	59	2
Ph.D. Life Sciences	2	381	0
Ph.D. Management	1	275	1
Ph.D. Mass Communication	4	229	4
Ph.D. Materials Science	2	115	2
Ph.D. Mathematics	3	450 (222+228)	3
M.Phil. Mathematics	1		1
Ph.D. Microbiology	2	227	0
Ph.D. Music	2	9	2
Ph.D. Physics	1	595	1
Ph.D. Social Work	4	169	4
Ph.D. Tamil	2	100	2

**\*Note:** Including collaborative programmes at MSE & SVIPSTM

## 2.2 Catering to Student Diversity

### 2.2.1 Student – Full-time teacher ratio (current year data)

Year	Number of students enrolled in the institution (UG)	Number of students enrolled in the institution (PG)	Number of full-time teachers available in the institution teaching only UG courses	Number of full-time teachers available in the institution teaching only PG courses	Number of teachers teaching both UG & PG courses
2018-2019	112	1266	11	151	162

## 2.3 Teaching-Learning Process

### 2.3.1 Percentage of teachers using ICT for effective teaching with Learning Management Systems (LMS), E-learning resources, etc. (current year data):- **100%**

Number of teachers on roll	Number of teachers using ICT (LMS, e-Resources)	ICT tools and resources available	Number of ICT enable classrooms	Number of Smart Classrooms	E-resources and techniques used
94 (Regular) & 68 (Contract)	162	<ul style="list-style-type: none"> <li>➤ SCOPUS DATABASE</li> <li>➤ E-ShodhSindhu</li> <li>➤ EBSCO</li> <li>➤ IndiaStat.com</li> <li>➤ DELNET</li> <li>➤ IOP Publishing</li> <li>➤ SciFinder</li> <li>➤ Science Direct</li> <li>➤ IEEE – CSDL</li> <li>➤ LED Monitor,</li> <li>➤ Computer System laptop</li> <li>➤ LCD Projector</li> <li>➤ Smart Board</li> </ul>	70	09	<p>Access enabled through IP based and wifi</p> <p>Remote access enabled through INFEED</p>

2.3.2 Is the student mentoring system available in the department? Give details (Maximum 500 words)

- The importance of initiating a mentoring system is to enhance students' performance and knowledge. The system was promptly and effectively put into practice from 2018. Every department followed the suggestions given by IQAC of the Central University of Tamil Nadu to introduce the student mentoring system. As per the mentorship programme, mentors are allotted to students to alleviate their problems. Faculties will meet with their assigned students periodically to guide them with the curriculum, monitor their progress, provide intellectual and emotional support, advise on the appropriate choices for optional and add-on courses, apply for scholarships, undertake research projects, summer projects, Ph.D. opportunities and attend campus interviews. Remedial classes and peer learning are organized to help slow learners. The students are also encouraged to participate in co-curricular and extra-curricular activities. Counseling on health, hygiene, social safety and awareness of recent trends is given to all students.
- Special care and counseling are given to the students staying in hostels to help them cope up with change.

Number of students enrolled in the Department	Number of full-time teachers in your department	Mentor: Mentee Ratio in your department
32 (Applied Psychology)	02	1:16
176 (Chemistry)	08	1:22
54 (Commerce)	05	1:10.8
40 (Computer Science)	04	1:10
128 (Economics)	06	1:21.3
24 (Epidemiology & Pubic Health)	03	1:8
34 (English)	04	1:8.5
93 (Education)	06	1:15.5
36 (Geography)	04	1:9
24 (History)	05	1:4.8
19 (Hindi)	06	1:3.2
26 (Library & Information Science)	05	1:5.2
133 (Life Sciences)	06	1:22.2
66 (Management)	03	1:22
40 (Materials Science)	04	1:10
138 (Mathematics)	08	1:17.3
38 (Media & Communication)	04	1:9.5
19 (Music)	01	1:19
47 (Microbiology)	03	1:15.7
139 (Physics)	08	1:17.4
38 (Social Work)	10	1:3.8
34 (Tamil)	05	1:6.8

## 2.4 Teacher Profile and Quality

### 2.4.1 Number of full-time teachers appointed during the year

No. of sanctioned positions	No. of filled positions	Vacant positions	Positions filled during the current year	No. of faculty with Ph.D
<b>42</b> (Assistant Professor -24 Associate professor -12 Professor -6)	01 (Assistant Professor)	41	01	01

2.4.2 Honours and recognitions received by teachers (received awards, recognition, fellowships at State, National, International level from Government, recognized bodies during the year)

<b>Year of award</b>	<b>Name of full-time teachers receiving awards from the state level, national level &amp; international level</b>	<b>Designation</b>	<b>Name of the award, fellowship, received from Government or recognized bodies</b>
2018-2019	Dr. N. Sivakami	Assistant Professor	Recognized by "Times of India" and other media for the initiative of a pilot project on setting vermicomposting unit using the canteen vegetable wastes and distributing it to the farmers to promote organic farming
2018-2019	Dr. N. Sivakami	Assistant Professor	Recognized by "The Hindu" national daily for developing a model to market self-help group products through educational institutions
2018-2019	Dr. V. Vithya	Assistant Professor	Prof. Durganand Sinha Best Dissertation Award, National Academy of Psychology (India)
2018-2019	Dr. V. Vithya	Assistant Professor	Prof. Erika Voigt Young Scientist Award in School Psychology 2018, Governing Council of Indian School Psychology Association
2018-2019	Dr. V. P. Ramesh	Assistant Professor	Workshop Grant from NBHM to organize a National level workshop in Mathematics named, Summer School in Mathematics to the memory of Prasanta Chandra Mahalanobis from 22 <sup>nd</sup> July to 10 <sup>th</sup> August 2018
2018-2019	Prof. L. Kavitha	Professor	Elected as a fellow of the Academy of Sciences, Chennai (2018)
2018-2019	Dr. S. Subash – State Level	Assistant Professor	"Peraciriya rathna viruthu" The award given by kaviarasar Kalai Tamizhchangam, Namakkal.

<b>Year of award</b>	<b>Name of full-time teachers receiving awards from the state level, national level &amp; international level</b>	<b>Designation</b>	<b>Name of the award, fellowship, received from Government or recognized bodies</b>
2018-2019	Dr. V. Ramesh Kumar – State Level	Assistant Professor	“Peraciriya rathna viruthu” The award given by kaviarasar Kalai Tamizhchangam, Namakkal.
2018-2019	Dr. Praveen Balabaskaran Nina	Assistant Professor	Travel award to attend the Joint International Tropical Medicine Meeting.
2018-2019	Dr. Praveen Balabasakaran Nina	Assistant Professor	Travel award to attend the “Working with parasite genome database resources” organized by welcome Genome Campus, the UK at Monash University, Malaysia.
2018-2019	Dr. K. Balasubramani	Assistant Professor	Tamil Nadu State Council For Science and Technology
2018-2019	Dr. V. Rajendiran	Assistant Professor	Awarded “International Travel Support” by SERB, India to participate in the 9 <sup>th</sup> Asian biological inorganic chemistry conference held from December 9 – 14, 2018, organized by national university of Singapore
2018-2019	Dr. K. Balasubramani	Assistant Professor	ICSSR Travel Grant
2018-2019	Dr. M. Kannan	Assistant Professor	❖ Visiting Professor, Loyola University Medical Center, Stritch School of Medicine, Chicago, USA ❖ Member, International Society on Thrombosis and Haemostasis, USA
2018-2019	Dr. Dinakar Challabathula	Assistant Professor	Visiting Scientist: Swedish University of Agricultural Sciences, Sweden
2018-2019	Dr. Latchoumycandane Calivarathan	Assistant Professor	Diplomate, The American Board of Toxicology, USA
2018-2019	Dr. V. Gunasekaran	Assistant Professor	Visiting Scientist award by INSA (Indian National Science Academy), New Delhi, GoI

<b>Year of award</b>	<b>Name of full-time teachers receiving awards from the state level, national level &amp; international level</b>	<b>Designation</b>	<b>Name of the award, fellowship, received from Government or recognized bodies</b>
2018-2019	Dr. E. M. Shankar	Associate Professor	<ul style="list-style-type: none"> <li>❖ Fellow of the Royal Society of Biology (FRSB), UK</li> <li>❖ Associate Editor, Current HIV Research, Bentham Science, USA</li> <li>❖ Editor, PLoS One, Public Library of Sciences, USA</li> <li>❖ Academic Editor, Medicine, Wolters Kluwer Health, USA</li> <li>❖ Associate Editor, BMC Immunology, Springer Nature, USA</li> <li>❖ Associate Editor, BMC Infectious Diseases, Springer Nature, USA</li> </ul>
2018-2019	Dr. Prasant Kumar Panda	Associate Professor	KN Raj Fellowship in Teaching Resource grant of Teacher in Economics by Centre for Development Studies, Thiruvananthapuram, Government of Kerala
2018-2019	Dr. P. Udhayakumar	Assistant Professor	Honoured for serving as Psychiatric Counsellor in Juvenile Justice Board, Thiruvarur for the year 2019
2018-2019	Dr. N. Sivakami	Assistant Professor	United Nations Forum for Social and Solidarity Economy: Abstract accepted for the International Conference on Social and Solidarity Economy to be held in Geneva, Switzerland to be featured in the Knowledge Hub of the United Nations Forum for social and Solidarity Economy
2018-2019	Prof. L. Kavitha	Professor	Regular Associate by ICTP, Italy
2018-2019	Dr. Srinivasan Sampath	Assistant Professor	Young Scientist Award by Academy of Sciences, Chennai.

<b>Year of award</b>	<b>Name of full-time teachers receiving awards from the state level, national level &amp; international level</b>	<b>Designation</b>	<b>Name of the award, fellowship, received from Government or recognized bodies</b>
2018-2019	Dr. N. Barani Balan	Assistant Professor	Workshop Grant from SERB to organize CIP2019, March 01-02, 2019
2018-2019	Prof. T. Mohan Das	Professor	Executive member of Association of Carbohydrate Chemists and Technologists of India (ACCTI)
2018-2019	Dr. V. Rajendiran	Assistant Professor	Awarded Prof. R. K. Barua memorial best poster prize 2019 in the 24 <sup>th</sup> CRSEI National Symposium in Chemistry, held during February 8 – 10, 2019 at CSIR – CLRI & IIT Madras, Chennai
2018-2019	Dr. M. Shiva Prasad	Assistant Professor	Member of the royal society of chemistry
2018-2019	Dr. Kaushik Rajaram	Assistant Professor	Best Oral Presentation Award, University of Pondicherry
2018-2019	Dr. PS. Velmurugan	Associate Professor	Research Guide, National Level Recognition from Indira Gandhi Technological and Medical Sciences University, Arunachal Pradesh

## 2.5 Teacher Profile and Quality

2.5.1 Number of days from the date of semester-end/year-end examination till the declaration of results during the year

<b>Programme</b>	<b>Programme Code</b>	<b>Semester / Year</b>	<b>Last date of the last semester-end / year-end examination</b>	<b>Date of declaration of results of semester-end / year-end examination</b>
B.P.A Music	1401	2018 - 2019	11.05.2019	22.05.2019
Int. B.Sc., B.Ed. Mathematics	1101	2018 - 2019	11.05.2019	22.05.2019
Int. M.Sc. Chemistry	502	2018 - 2019	11.05.2019	22.05.2019
Int. M.A. Economics	303	2018 - 2019	11.05.2019	22.05.2019
Int. M.Sc. Life Sciences	602	2018 - 2019	11.05.2019	22.05.2019
Int. M.Sc. Mathematics	202	2018 - 2019	11.05.2019	22.05.2019
Int. M.Sc. Physics	402	2018 - 2019	11.05.2019	22.05.2019
M.Sc. Applied Psychology	2101	2018 - 2019	11.05.2019	22.05.2019
M.Sc. Chemistry	503	2018 - 2019	11.05.2019	22.05.2019

Programme	Programme Code	Semester / Year	Last date of the last semester-end / year-end examination	Date of declaration of results of semester-end / year-end examination
M.Com.	1701	2018 - 2019	11.05.2019	22.05.2019
M.Sc. Computer Science	1301	2018 - 2019	11.05.2019	22.05.2019
M.A. Classical Tamil	702	2018 - 2019	11.05.2019	22.05.2019
M.A. Economics	304	2018 - 2019	11.05.2019	22.05.2019
M.Sc. Epidemiology & Public Health	1501	2018 - 2019	11.05.2019	22.05.2019
M.A. English	102	2018 - 2019	11.05.2019	22.05.2019
M.Sc. Geography	2201	2018 - 2019	11.05.2019	22.05.2019
M.A. Hindi	1201	2018 - 2019	11.05.2019	22.05.2019
M.A. History	2301	2018 - 2019	11.05.2019	22.05.2019
M.Lib.I.Sc	1901	2018 - 2019	11.05.2019	22.05.2019
Master of Business Administration	1801	2018 - 2019	11.05.2019	22.05.2019
M.A. Mass communication	802	2018 - 2019	11.05.2019	22.05.2019
M.Tech. Materials Science	1001	2018 - 2019	11.05.2019	22.05.2019
M.Sc. Microbiology	2001	2018 - 2019	11.05.2019	22.05.2019
Master of Social Work	902	2018 - 2019	11.05.2019	22.05.2019
P.G.D.C.L.T	504	2018 - 2019	11.05.2019	22.05.2019

2.5.2 The average percentage of student complaints/grievances about evaluation against the total number appeared in the examinations during the year.

<b>*Do not include re-evaluation / re-totalling</b>		
Number of Complaints or grievances about evaluation	Total number of students appeared in the examination	Percentage
Nil	1358	0%

## 2.6 Student Performance and Learning Outcomes

2.6.1 Program outcomes, program-specific outcomes and course outcomes for all programs offered by the institution are stated and displayed in the website of the institution (to provide the web-link)

[https://cutn.ac.in/wp-content/uploads/2019/05/PROSPECTUS\\_2019-2020.pdf](https://cutn.ac.in/wp-content/uploads/2019/05/PROSPECTUS_2019-2020.pdf)

2.6.2 Pass percentage of students

Programme Code	Programme Name	Number of students appeared in the final year examination	Number of students passed in the final semester/year examination	Pass Percentage
502	Int. M.Sc. Chemistry (2014-2019)	28	28	100
302	Int. M.Sc. Economics (2014-2019)	22	16	72.75
602	Int. M.Sc. Life Sciences (2014-2019)	24	24	100
202	Int. M.Sc. Mathematics (2014-2019)	24	24	100



<b>Programme Code</b>	<b>Programme Name</b>	<b>Number of students appeared in the final year examination</b>	<b>Number of students passed in the final semester/year examination</b>	<b>Pass Percentage</b>
402	Int. M.Sc. Physics (2014-19)	27	27	100
2101	M.Sc. Applied Psychology (2017-2019)	10	10	100
503	M.Sc. Chemistry (2017-2019)	13	13	100
1701	M.Com.(2017-2019)	19	19	100
1301	M.Sc. Computer Science (2017-2019)	20	20	100
304	M.A. Economics (2017-2019)	14	14	100
1501	M.Sc. Epidemiology & Public Health (2017-2019)	8	8	100
102	M.A. English (2017-2019)	15	15	100
2201	M.Sc. Geography (2017-2019)	15	13	86
702	M.A. Classical Tamil (2017-2019)	14	14	100
1201	M.A. Hindi (2017-2019)	12	12	100
2301	M.A. History (2017-2019)	7	7	100
1901	M.Lib.I.Sc. (2017-2019)	11	11	100
1801	Master of Business Administration (2017-2019)	25	25	100
1001	M.Tech. Materials Science (2017-2019)	17	17	100
2001	M.Sc. Microbiology (2017-2019)	22	21	95
902	Master of Social Work (2017-2019)	21	19	90.5
802	M.A. Mass Communication (2017-2019)	16	16	100
504	P.G. Dip. in Chem. Lab Technician (2018-2019)	7	7	100

## **2.7 Student Satisfaction Survey**

2.7.1 Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design the questionnaire) (results and details be provided as web-link):

Student Satisfaction Survey (SSS) initiated from Academic Year 2019-2020.

## Criteria III – Research, Innovations & Extension

### 3.1 Promotion of Research and Facilities

3.1.1 Teachers awarded National / International fellowship for advanced studies/research during the year

Particular	Name of the teacher awarded the fellowship	Name of the Award	Date of Award	Awarding Agency
National	Dr. Prasanth Kumar Panda	KN Raj Fellowship	3 <sup>rd</sup> Jan to 2 <sup>nd</sup> Feb 2019	Centre for Development Studies
National	Dr. V. Vithya	ICSSR-IMPRESS	1 <sup>st</sup> April 2019	Ministry of Human Resource Development & Indian Council of Social Sciences Researches.
International	Dr. E.M.Shankar	Fellow of the Royal Society of Biology (FRSB), UK	01.01.2019	Royal Society of Biology (FRSB)
International	Prof. L. Kavitha	Regular Associate	2014-2019	ICTP, Italy
International	Dr. V. Gunasekaran	Visiting Scientist Award	18.02.2019	Indian National Science Academy, Government of India

3.1.2 Number of JRFs, SRFs, Post-Doctoral Fellows, Research Associates and other fellows in the Institution enrolled during the year

Name of Research fellowship	Duration of fellowship	Funding agency
Research Assistant (Ms. K.U.Abhirami)	20.07.2018 to 30.04.2019	ICSSR
Field Assistant (Mr. N. Vairamoorthy)	11.10.2018 to 10.07.2020	CSIR
JRF (Ms.A.Shanmugapriya)	02.11.2018 to 01.11.2019	SERB
JRF (Ms. V.Sivashankari)	03.12.2018 to 02.12.2019	DST
JRF (Ms.K.Nivedita Priyadarshini)	03.12.2018 to 02.12.2019	DST
DSKPDF (Dr.Ramya)	17.12.2018 to 16.12.2021	UGC
DSKPDF (Dr. Shini Joy)	06.02.2019 to 05.02.2022	UGC
Research Assistant (Mr. J.Roberto Baggio)	05.04.2019 to 05.07.2019	ICSSR
Project Assistant (MS.K.Anushiya)	10.05.2019 to 09.07.2019	ICSSR

### 3.2 Resource Mobilization for Research

3.2.1 Research funds sanctioned and received from various agencies, industry and other organizations.

Nature of the Project	Duration	Name of the funding Agency	Total grant sanctioned	Amount received during the year
Major Projects	2018-2020	DST	32,96,000/-	10,39,500/-
	2018-2020	UGC	10,00,000/-	8,00,000/-
	2018-2020	UGC	10,00,000/-	8,00,000/-
	2018-2020	UGC	10,00,000/-	8,00,000/-
	2018-2021	UGC - DAE	9,86,000/-	45,000/-
	2019-2021	UGC	10,00,000/-	8,00,000/-
	2019-2022	SERB	55,17,120/-	3,78,300/-
	2019-2022	SERB	28,54,000/-	19,60,000/-
	2019-2022	SERB	21,37,472/-	21,37,472/-
	2019-2021	UGC	10,00,000/-	8,00,000/-
	2019-2020	ICSSR	8,00,000/-	1,71,990/-
	2018-2020	UGC	20,00,000/-	--
	2019-2021	UGC	20,00,000/-	--
	10 Month	ICSSR	6,60,000/-	3,96,000/-
	2019-2020	TATA	26,52,000/-	13,26,000/-
Minor Projects	Sep – Dec 2018	NCRI	1,00,000/-	1,00,000/-
	6 Months	ICSSR	1,50,000/-	75,000/-
Interdisciplinary Projects	--	--	--	--
Industry sponsored Projects	--	--	--	--
Projects sponsored by the University	--	--	--	--
Students Research Projects (Other than compulsory by the University)	--	--	--	--
International Projects	--	--	--	--
Any other (Specify)	--	--	--	--
<b>Total</b>			<b>2,81,52,592</b>	<b>1,16,29,262</b>

### 3.3 Innovation Ecosystem

3.3.1 Workshops / Seminars Conducted on Intellectual Property Rights (IPR) and Industry-Academia Innovative practices during the year:-

Title of Workshop / Seminar	Name of the Department	Date(s)
Nil		

3.3.2 Awards for Innovation won by Institution / Teachers / Research Scholars / Students during the year

Title of the Innovation	Name of the Awardee	Awarding Agency	Date of Award	Category
Shrimati Pyari Devi Ghasiram Sihag Sahitya Samman	Shri.Milan Bishnoi Reg.No. R171202 Ph.D. Hindi 2017 Batch	Guganram Educational and Social Welfare Society, Bohal, Haryana	24 <sup>th</sup> March 2019	National Level

3.3.3 No. of Incubation centre created, start-ups incubated on campus during the year: **NIL**

Incubation Centre	Name	Sponsored by
--	--	--
Name of the Start-up	Nature of Start-up	Date of commencement
--	--	--

### 3.4 Research Publications and Awards

3.4.1 Ph.D. awarded during the year

Name of the Department	No. of Ph.D. awarded
Chemistry	2
Economics	1
English	1
Mathematics	3
Physics	3

3.4.2 Research Publications in the Journals notified on UGC Website during the year:

Particulars	Department	No. of Publication	Average Impact Factor, if any
International	Applied Psychology	01	0
International	Chemistry	15	4.418
International	Computer Science	02	1.601
National		01	
International	Commerce	01	0.41
National		01	
International	Economics	01	0.19
National		01	

Particulars	Department	No. of Publication	Average Impact Factor, if any
International	Epidemiology & Public Health	02	4.626
International	Education	01	0
International	English	01	0
National		01	
International	Geography	06	2.521
National		01	
International	History	01	0.83
National		01	
International	Health Centre	02	0
International	Library Science	01	0.13
National		01	
International	Library	01	0.13
National	Life Sciences	02	13.14
International		18	
International	Microbiology	01	2.390
National		01	
National	Media and Communication	01	0.19
International	Materials Science	22	5.302
International	Mathematics	09	0.758
National		01	
International	Physics	34	3.933
International	Social Work	06	2.093
National		02	

3.4.3 Books and Chapters in Edited Volumes / Books published, and papers in National / International Conference Proceedings per Teacher during the year.

Department	No. of Publication
Applied Psychology	08
Computer Science	08
Chemistry	01
Commerce	10
Education	04
Epidemiology & Public Health	02
English Studies	07
Geography	02
Hindi	05
Life Sciences	03
Library & Information Science	03
Materials Science	02
Mathematics	01
Media & Communication	06
Physics	13
Social Work	16

3.4.4 Patents published/awarded during the year:

Patent Details	Patent Status Published / Filed	Patent Number /Journal No.	Date of Award
<b>Application No.</b> 16/219, 976 <b>Title:</b> Uses and Development of Neurodefend for Treating Neurodegenerative Diseases <b>Date of Application:</b> 14.12.2018	<b>Published on 19.09.2019</b> <a href="https://patents.justia.com/patent/20190282646">https://patents.justia.com/patent/20190282646</a>	US2019/028 2646 A1	--
<b>Application No.</b> 201910197461 <b>Title:</b> Herbal-composition and its purposes for treating neurodegenerative disease <b>Date of Application:</b> 15.12.2018	<b>Published on 24.09.2019</b> <a href="https://patents.google.com/patent/CN110269894/">https://patents.google.com/patent/CN110269894/</a>	CN11026989 4A	--

3.4.5 Bibliometrics of the publication during the last Academic year based on average citation index in Scopus / Web of Science or PubMed / Indian Citation Index.

Title of the paper	Name of the author	Title of the Journal	Year of publication	Citation Index	Institutional affiliation as mentioned in the publication	Number of citations excluding self-citations
<b>Annexure I</b> (herewith attached)						

3.4.6 h-Index of the Institutional Publications during the year. (based on Scopus / Web of Science)

Title of the paper	Name of the author	Title of the Journal	Year of publication	h-index	Number of citations excluding self-citations	Institutional affiliation as mentioned in the publication
<b>Annexure-II</b> (herewith attached)						

3.4.7 Faculty participation in Seminars / Conference and Symposia during the year:

No. of Faculty	International Level	National Level	State Level	Local Level
Attended Seminars / Workshop	30	86	32	09
Presented papers	43	98	--	03
Resource persons	17	118	22	09

### 3.5 Consultancy

3.5.1 Revenue generated from Consultancy during the year

Name of the Consultant(s) department	Name of Consultancy project	Consulting / Sponsoring Agency	Revenue generated (amount in rupees)
NIL			

3.5.2 Revenue generated from Corporate Training by the department during the year

Name of the Consultant(s) & Department	Title of the Programme	Agency seeking training	Revenue generated (amount in rupees)	Number of trainees
NIL				

### 3.6 Extension Activities

3.6.1 Number of extension and outreach programmes conducted in collaboration with industry, community and Non-government organisations through NSS/NCC/Red cross/Youth Red Cross (YRC)/UBA, etc., during the year.

Title of the Activities	Organising unit / agency / collaborating agency	Number of teachers Coordinated in such activities	Number of students participated in such activities
1. Blood Donation Camp 2. Swachh Bharat Pakhwara 3. Candle March for Deceased soldiers 4. Drug Abuse Prevention program – Capacity Building 5. Eye Screening Camp 6. NSS Day out 7. NSS orientation program 8. Old Age Home visit 9. Personality Development Workshop 10. Report of Gaja Cyclone Relief Operation 11. Republic Day Celebrations 12. Special Camp Report 13. Celebration of National Voters' Day 2019	NSS	04	250
Free Public Medical Camp	Health Centre, CUTN and UBA	10	72
Massive Tree Plantation Programme	Unnat Bharat Abhiyan (CUTN) and Koradachery Town Panchayat Union, Thiruvarur	05	55
Massive Tree Plantation Programme	Unnat Bharat Abhiyan, CUTN	05	75



3.6.2 Award and recognition received for extension activities from Government and other recognized bodies during the year

<b>Name of the Activity</b>	<b>Award / recognition</b>	<b>Awarding bodies</b>	<b>No. of Students benefited</b>
Swachh Bharat Abhiyan	Summer Internship Programme	UGC & Swachh Bharat Abhiyan, GOI	03
Swachhata Hi Seva and Swachhata Pakshwada	Certificate of Merit	CUTN & Swachh Bharat Nodal Officer	200
NCC Special Camp 29.06.19 to 08.07.2019	Best Cadet	Gr HQ, Pondicherry	01
NCC Special Camp 14.06.19 to 23.07.19	Best Cadet	Gr HQ, Pondicherry	03

3.6.3 Students participating in extension activities with Government Organisations, Non-Government Organisations, and programmes such as Swachh Bharat, Aids Awareness, Gender Issue, etc., during the year.

<b>Name of the Scheme</b>	<b>Organising unit / agency / collaborating agency</b>	<b>Name of the activity</b>	<b>Number of teachers coordinate in such activities</b>	<b>Number of students participated in such activities</b>
Swachh Bharat Abhiyan	SBA	Promoting Cleanliness	26	400
Swachh Bharat	CUTN	Campus cleaning	4	40
Cyclone Relief Work	Sakthi Trust Chennai	Distribution of Relief Materials	7	20
Rural Camp	District Child Protection Unit, Thiruvarur	10 day camp at Rayanallur village in Gaja Cyclone affected region	4	18
Awareness Programmes	NISD, New Delhi	Drug abuse, reason, and repercussion, types of drugs and signs & symptoms ill effects of drug and alcohol	7	38
Swachh Bharath	Department of Social Work	Online Photography competition	2	38
Swachh Bharat	Department of Library and Information Science, CUTN	Swachhata Pakhwada	06	28
Swachh Bharat mission	Department of Economics, CUTN	Swachhata Hi Seva	01	30
Swachh Bharat mission	Department of Music, CUTN	Clean & Green	01	19
Swachh Bharat mission	Department of Applied Psychology, CUTN	Orientation Programme	02	60
Suicide prevention programme	Department of Applied Psychology, CUTN	Suicide prevention programme	04	120

<b>Name of the Scheme</b>	<b>Organising unit / agency / collaborating agency</b>	<b>Name of the activity</b>	<b>Number of teachers coordinate in such activities</b>	<b>Number of students participated in such activities</b>
Mental Health Awareness programme	Department of Applied Psychology, CUTN	Mental Health awareness programme	06	More than 560
Swachh Bharat Abhiyan	Government Higher Secondary School, Enangudi, Nagapattinam District	Health & Hygiene and Sapling Plantation	01	33
Swachh Bharat	Department of Physics, CUTN	Swachh Bharat	10	40
Swachh Bharat Abhiyan	NSS / Rotary Club	Jal-Sakthi Abhiyan	2	10
Eye Screening Camp	NSS / Lions eye Hospital	Eye Screening camp	2	20
Swachh Bharat	Department of Mathematics, CUTN	Cleaning our Department Surroundings	02	15
Swachh Bharat	Department of Tamil, CUTN	Awareness Programme	08	40
NSS	Health Centre, CUTN and Rotary Club, Thiruvarur	Free Eye Camp	02	69
Swachh Bharat Abhiyan	Department of Chemistry, CUTN	SHRAMADAN	08	28
Swachhata Hi Seva 2018	Department of History, CUTN	Door to Door Swachhata Awareness at Anaikkuppam Village, Thiruvarur	05	24
Swachh Bharat	Swachhta Pakhwada 2018	Survey along the river Vettar (Neelakudi & Nagakudi)	07	42
Swachh Bharat	Government of India	"Vibhag Parisar Kee Saphayee"	02	40
Swachh Bharat	Department of Education, CUTN	Swachhta Pakhwada	01	20
Nation-wide competition on Law related to women	IQAC, CUTN	Competition	09	94
Digital Literacy & Online Safety Programme	IQAC & ICC	Awareness Programme	09	578
Self Defence for Girls	ICC	Awareness Programme	05	155

### 3.7 Collaborations

#### 3.7.1 Number of Collaborative activities for research, faculty exchange, student exchange during the year

Nature of Activity	Participant	Source of Financial support	Duration
Research & Academic: Indo-Norwegian Cooperation Program (INCP)	Prof. P. Ravindran	UGC – India and Research Council of Norway	2015-2018
Research Project – Predictors / Determinants of Psycho-Social Health among Children of Incarcerated Parents: A Study of NCT of Delhi, - Co-PI total budget INR 34,42,817/-	Dr. P. Sigamani Prof. Neelam Sukharmeni	Indian Council of Medical Research (ICMR), New Delhi	2017-2019
Research activity: UTFORSK 2017, Theoretical and Experimental Study and Research on Functional Materials	Prof. P. Ravindran	Research Council of Norway	2017-2021
Maternal and Child Health Care Developments in Rural India: Outreach and Impact Assessment of Janani Shishu Suraksha Karyakram (JSSK) in Thiruvarur District, TN	Dr. Prasant Kumar Panda Dr. Chittaranjan Subudhi	National Council of Rural Institute (NCRI)	Sep-Oct 2018
Survey Practical Classes in Bharathidasan University, Tiruchirappalli	M.Sc. Geography (2017-18 Batch Students)	CUTN	24 – 27 September 2018
Patterns and determinants of farmers vulnerability, Resilience building mechanism, and adoption strategies to adverse effects of natural calamities: Empirical evidence from Vizianagram District, Andhra Pradesh,	Dr. Prasant Kumar Panda Dr. Lilly Grace Eunice	Mahatma Gandhi National Council of Rural Education, Department of Higher education, Ministry of Human Resource Development, GOI, Hyderabad	Sep 2018 to February 2019
Student Project	Miss. Azega (II M.Tech Materials Science)	University of Oslo, Norway	December 2018 to May 2019
A Study of ICT Integration in Teaching and Learning in Higher Education in India	Dr. R. Pramila Dr. P. Thiyagarajan	IUCET	2018-2019
Rural Household Vulnerabilities to Unhygienic Practices, its Impact on Health and Intervention through Swachh Bharat Mission: An Empirical Study in Thiruvarur District of Tamil Nadu	Dr. Prasant Kumar Panda Dr. Nikhil Kumar Gouda Dr. P. Udhaykumar, Dr. Sujit Kumar Behera	ICSSR	2018-2020
Alcohol-induced Renal Inflammatory injury- Mechanism and Rescue	Dr. Latchoumy Candane. Calivarathan	UGC	2018-2021

<b>Nature of Activity</b>	<b>Participant</b>	<b>Source of Financial support</b>	<b>Duration</b>
Research and Academic: India – Norway partnership for Research and Education in Materials for energy and environment (INNOREM)	Prof. P. Ravindran	Research Council of Norway	2018-2020
Mitigating and managing the urban heat islands through social forestry using hyper and multispectral remote sensing	Prof. Sulochana Shekhar	DST	2018-2020
Visiting Faculty to Pondicherry University	Prof.T.Sengadir	Pondicherry University	Jan – April 2019
Menstruation and Myths: Communication Strategies to promote healthy practices among rural women	Dr. Francis Dr. Shamala Dr. K. Sivagami	ICSSR, Hyderabad	Jan – July 2019
Research Collaboration – Data collection for ICSSR project of IIMC, New Delhi	Dr. Nikhil, Dr. Francis, Dr. Shamala & Dr. Boobalakrishnan	ICSSR	April – May 2019
International Collaboration / Exchange programme	Dr. V.Gunasekaran	Indian National Science Academy and Hungarian Academy of Sciences, Hungary	May-August 2019
Sample processing and Spectral Library Retrieval (IIST, Trivandrum)	K. Nivedita Priyadarshini V. Shivashankari	DST - NISA	10 – 11 June 2019
Development of Novel, Efficient and low-cost process for water treatment using Graphene-oxide nanoparticles with Real-time zero-discharge effluent technique	Dr. V. Gunasekaran	DST-SERB	2018-2021
Design and Development of a Novel Graphene-based Nano-hybrid photocatalyst for effective sonocatalytic degradation of industrial dye effluent pollutants	Dr. V. Gunasekaran	UGC	2017-2020

3.7.2 Linkages with institutions/industries for an internship, on-the-job training, project work, sharing of research facilities, etc. during the year

<b>Nature of Linkage</b>	<b>Title of the linkage</b>	<b>Name of the partnering institution/industry/research lab with contact details</b>	<b>Duration (From-To)</b>	<b>No of Participant</b>
Internship	Characterization of P91 Steel	IIT-MADRAS	May-June 2018	01
Internship	Repair welding of cast Ni-based superalloy XH67	IIT-MADRAS	May-July 2018	01

<b>Nature of Linkage</b>	<b>Title of the linkage</b>	<b>Name of the partnering institution/industry/research lab with contact details</b>	<b>Duration (From-To)</b>	<b>No of Participant</b>
Internship	Development of $\beta$ tricalcium phosphate/silica composite	Pondicherry UNIVERSITY	May-July 2018	01
Internship	Defect characterization of Glass fiber Materials	NIT-TRICHY	May-July 2018	01
Internship	Erosion corrosion Behaviour of thermal Sprayed Nanocoatings	IIT-MADRAS	May-July 2018	01
Internship	Graphite Carbon Nitride Quantum Dots/Molybdenum Sulphide Nanocomposites	CSIR-NEIST	May-July 2018	01
Internship	Development of CeO <sub>2</sub> /SiO <sub>2</sub> composite for bone remodeling	Pondicherry UNIVERSITY	May-July 2018	01
Internship	Biomass Derived Activated carbon materials for SC.	CSIR-CECRI KARAIKUDI	May-July 2018	01
Internship	Biodegradation of disposable polyethylene	NIT-TRICHY	May-July 2018	01
Internship	Alloying Element consumption and cost optimization	HINDUJA FOUNDRIES (AL)	May-July 2018	01
Internship	Synthesis of Hap-Gel Nanocomposite for bone Scaffold	ALAGAPPA COLLEGE OF TECH.	May-July 2018	01
Internship	Defect characterization in mild steel using IRT	NIT-TRICHY	May-July 2018	01
Internship	Photocatalytic Hydrogen Evaluation	CSIR-KARAIKUDI	May-July 2018	01
Internship	Fabrication of Polypyrrole heterostructures	CSIR-CGCRI KOLKATA	May-July 2018	01
Internship	Defect characterization in stainless steel	NIT-TRICHY	May-July 2018	01
Fieldwork (Social Work)	Concurrent Placement Semester III (2018-2020)	NGOs/GO/Company	July–October 2018	20
Fieldwork (Social Work)	Concurrent Placement Semester I (2018-2020)	NGOs/GO/Company	July–October 2018	18
Sharing of research facilities	Conducting Survey Practical Classes for III Semester Geography students	Department of Geography, Bharathidasan University, Thiruchirapalli	24-27 September 2018	23
Industrial Visit	Industrial visit	MCX, NISM	24 & 25 <sup>th</sup> Sep 2018	19

<b>Nature of Linkage</b>	<b>Title of the linkage</b>	<b>Name of the partnering institution/industry/research lab with contact details</b>	<b>Duration (From-To)</b>	<b>No of Participant</b>
Sharing of research facilities	Conducting VES and GPR survey in and around Keezhadi, Vaigai basin	Periyar University, Salem Bharathidasan University, Tiruchirapalli	Nov–Dec 2018	05
Fieldwork (Social Work)	Block Placement Semester IV (2017-2019)	NGOs/GO/Company	December 2018	20
Project work	Synthesis& characterization of spaced titania nanotubes	Univ. of Oslo, Norway	Dec 2018-May 2019	01
Project work	Electrochemical Study on Boron Doped Diamond Electrode for Waste Water Treatment.	IIT -MADRAS	Dec 2018-May 2019	01
Project work	Mechanical corrosion &Erosion behavior of wire arc sprayed Zn& Zn Al coating on mild steel.	IIT-MADRAS	Dec 2018-April 2019	01
Project work	Studies on MgFe <sub>2</sub> O <sub>4</sub> /Ba. <sub>85</sub> Ca. <sub>15</sub> Zr <sub>0.1</sub> Ti <sub>0.9</sub> O <sub>3</sub> Lead-free multiferroic composites	RAJA RAMANNA CENTRE FOR ADVANCED TECHNOLOGY-INDORE	Dec 2018-May 2019	01
Project work	Photoswitchable self-assembly of gold nanoparticles for surface-enhanced Raman Scattering Probes	CSIR-CECRI-KARAIKUDI	Dec 2018-May 2019	01
Project work	Erosion Corrosion Behaviour of Cr <sub>3</sub> Cr <sub>2</sub> -NiCr coatings on Stainless Steel	IIT-MADRAS	Dec 2018-May 2019	01
Project work	Fluorescent Quantum Dots as Nanozymes for Sensing Applications	CSIR-NEIST, JORHAT, ASSAM	Dec 2018-May 2019	01
Project work	Investigation on the structural, morphological Features of CaZr <sub>4</sub> (PO <sub>4</sub> ) <sub>6</sub> Influenced by Zn <sup>2+</sup> sub	Pondicherry UNIVERSITY	Dec 2018-May 2019	01
Project work	Synthesis, characterization & Electrochemical Studies of Bio-waste Derived Activated Carbon for Supercapacitor Application	CSIR-CECRI, KARAIKUDI	Dec 2018-May 2019	01
Project work	Doped TiO <sub>2</sub> Nano-Structures for Photo-Conductivity Studies	IGCAR-KALPAKKAM	Dec 2018-May 2019	01
Project work	Fabrication of Antimicrobial Nano bio-composite film	IASST, GUWAHATI	Dec 2018-May 2019	01

<b>Nature of Linkage</b>	<b>Title of the linkage</b>	<b>Name of the partnering institution/industry/research lab with contact details</b>	<b>Duration (From-To)</b>	<b>No of Participant</b>
Project work	Development of Ni/PbTe Hot Side Joint For Thermoelectric Module by Direct Hot Pressing	ARCI-CHENNAI	Dec 2018-May 2019	01
Project work	A Study on Thermoelectric Power Generation from Engine Exhaust of Marine Fishing Boat	ARCI- CHENNAI	Dec 2018-May 2019	01
Project work	One step Facile Electrodeposition of nickel cobalt sulphide electrode materials	CSIR-CECRI, KARAIKUDI	Dec 2018-May 2019	01
Project work	Fabrication of Fe <sub>3</sub> S <sub>4</sub> /FeS <sub>2</sub> (FeS) nanoparticles	CSIR-NCL, PUNE	Dec 2018-May 2019	01
Project work	Cd <sub>2</sub> GeO <sub>4</sub> anode for Na-ion battery	CSIR-CECRI, KARAIKUDI	Dec 2018-May 2019	01
Project work	Synthesis of Barium Zirconate doped with BZY91 of solid oxide fuel and EPD	CSIR-IMMT, ODISHA	Dec 2018-May 2019	01
Fieldwork (Social Work)	Concurrent Placement Semester II (2018-2020)	NGOs/GO/Company	January – April 2019	18
Fieldwork (Social Work)	Concurrent Placement Semester IV (2018-2020)	NGOs/GO/Company	January – April 2019	20
Fieldwork (Social Work)	Summer Placement Semester II (2018-2020)	NGOs/GO/Company	May – June 2019	09
Internship	Synthesis of Graphene Oxide & rGO-MnO <sub>2</sub>	IIT-Indore	May – June 2019	01
Internship	Development of super-hydrophobic polyethylene terephthalate surface	CIT-Coimbatore	May – June 2019	01
Internship	Digital soil Mapping of Ananthapur	National Bureau of Soil Survey + Land-use Planning, Bangalore	May – June 2019	01
Internship	Digital Soil Mapping of Bellary District	National Bureau of Soil Survey + Land-use Planning, Bangalore	May – June 2019	01
Internship	Morphometric & Runoff Trend Analysis of Bhavani River Basin	Jawaharlal Nehru Technological University, Hyderabad	May – June 2019	01
Internship	Morphometric runoff Trend analysis of Noyyal river	Jawaharlal Nehru Technological University, Hyderabad	May – June 2019	01



<b>Nature of Linkage</b>	<b>Title of the linkage</b>	<b>Name of the partnering institution / industry / research lab with contact details</b>	<b>Duration (From-To)</b>	<b>No of Participant</b>
Internship	Morphometric runoff Trend analysis of Vaippar river	Jawaharlal Nehru Technological University, Hyderabad	May – June 2019	01
Internship	Post-processing of Cyclone Fant using GIS	Indian National Center for Ocean Information Services (INCOIS)	May – June 2019	01
Internship	Enhancing the Urban Green Cover and Water Conservation	Siruthuli NGO, Coimbatore	May – June 2019	01
Internship	Land use/land cover change Detection of kamrup district / IWMP project valuation	National Institute of Rural Development and Panchayati Raj North East Regional Centre	May – June 2019	01
Internship	Synthesis of Graphene Oxide & rGO-MnO <sub>2</sub>	IIT-Indore	May – June 2019	01
Internship	Development of super-hydrophobic polyethylene terephthalate surface	CIT-COIMBATORE	May – June 2019	01
Internship	Fabrication of incremental forming set up for CP-Al alloy	NIT-TRICHY	May – June 2019	01
Internship	Synthesis of ZnO thin films	PSG Tech, Coimbatore	May – June 2019	01
Internship	Laser actuation of NiTi	IIT-INDORE	May – June 2019	01
Internship	Design, Synthesis, characterization of $\beta$ -Ca <sub>3</sub> (PO <sub>4</sub> ) <sub>2</sub> /ZnFe <sub>2</sub> O <sub>4</sub>	Pondicherry University	May – June 2019	01
Internship	Density, Dynamic Viscosity & Kinetic Viscosity of Aqueous solution.	CSIR-CLRI ADAYAR	May – June 2019	01
Internship	Photo-catalytic Performance of Fluorine doped Anatase Ti dioxide	PRIST univ	May – June 2019	01
Internship	All Inorganic Perovskite Quantum dots for Sensing Lanthanum	Jain University, Bangalore	May – June 2019	01
Internship	Structural stability of Ca <sub>3</sub> (PO <sub>4</sub> ) <sub>2</sub> /ZrO <sub>2</sub>	Pondicherry University	May – June 2019	01
Internship	Corrosion Detection of HVOF Sprayed Cr <sub>2</sub> C <sub>2</sub> -NiCr	IIT-CHENNAI	May – June 2019	01
Internship	Cr <sub>3</sub> C <sub>2</sub> -NiCr Cermet Coatings For Erosion Corrosion Protection	IIT-CHENNAI	May – June 2019	01
Internship	Erosive Wear Study of Aluminium Alloy	NIT-TRICHY	May – June 2019	01

<b>Nature of Linkage</b>	<b>Title of the linkage</b>	<b>Name of the partnering institution/industry/research lab with contact details</b>	<b>Duration (From-To)</b>	<b>No of Participant</b>
Internship	Adhesive Wear Behaviour of Cu Alloy	NIT-TRICHY	May – June 2019	01
Internship	Student Internship	BSE Limited, Chennai	May – June 2019	03
Internship	Student Internship	Goodwill Comrades Pvt Ltd	May – June 2019	12
Internship	Student Internship	Hedge Equities, Kerala	May – June 2019	19
Internship	Digital soil Mapping of Malappuram District in Kerala	National Bureau of Soil Survey + Land-use Planning, Bangalore	May – July 2019	01
Internship	Assessment of Mo-Nb Binary phase Diagram	IIT-BHU	May – July 2019	01
Internship	Estimation of Impervious Surfaces of Kalaburagi city, Karnataka using AVIRIS – NG Hyperspectral data	Space Application Centre (SAC), ISRO, Ahmedabad [TREES PROGRAMME]	May – July 2019	01
Internship	Plastic litter Pattern of Peppara Wild Life Sanctuary	Thanal NGO, Thiruvananthapuram	May – July 2019	01
Internship	Plastic litter Pattern of Peppara Wild Life Sanctuary	Thanal NGO, Thiruvananthapuram	May – July 2019	01
Internship	Plastic litter Pattern of Peppara Wild Life Sanctuary	Thanal NGO, Thiruvananthapuram	May – July 2019	01
Internship	Plastic litter Pattern of Peppara Wild Life Sanctuary	Thanal NGO, Thiruvananthapuram	May – July 2019	01
Internship	Perspective Study of Sea level rise in Southern Kerala	Thanal NGO, Thiruvananthapuram	May – July 2019	01
Internship	Perspective Study of Sea level rise in Southern Kerala	Thanal NGO, Thiruvananthapuram	May – July 2019	01
Internship	Assessment of Mo-Nb Binary phase Diagram	IIT-BHU	May – July 2019	01
Internship	Synthesis & Fabrication of Perovskite Solar Cell	CIT-Coimbatore	May – July 2019	01
Internship	Synthesis & characterisation of morphologically tuned Magnesium hydroxide	CSIR-CGCRI KOLKATA	May – July 2019	01

3.7.3 MoUs signed with institutions of national, international importance, other universities, industries, corporate house, etc. during the year

<b>Organization</b>	<b>Date of MoU signed</b>	<b>Purpose and Activities</b>	<b>Number of students/teachers participated under MoUs</b>
Tri-Partite MoU	29 <sup>th</sup> June 2018	With the objective to assess and facilitate the performance of the University on selected key parameters against the targets set so as to incrementally improve the performance of the University	CUTN, UGC & MHRD
Indian Institute of Food Processing Technology (IIFPT), Thanjavur	10 <sup>th</sup> December 2018	Academic Collaboration	Academic and Research Collaboration between IIFPT & CUTN
IIMC, New Delhi	April 2019	Research Collaboration	All Teachers & 6 Students

## Criteria IV – Infrastructure and Learning Resources

### 4.1 Physical Facilities

4.1.1 Budget allocation, excluding salary for infrastructure augmentation during the year

<b>Budget allocated for infrastructure augmentation</b>	<b>Budget utilized for infrastructure development</b>
12.00 Crore	40.16 Crore

4.1.2 Details of augmentation in infrastructure facilities during the year

<b>Facilities</b>	<b>Existing as on 30<sup>th</sup> June 2018</b>	<b>Newly added (1<sup>st</sup> July 2018 to 30<sup>th</sup> June 2019)</b>
Campus area	412.03 Acres 104.73 Acres	-- --
Classrooms	82	05
Laboratories	75	04
Seminar Halls	20	--
Classroom with LCD facilities	71	02
Classroom with Wi-Fi/LAN	03	06
Seminar halls with ICT facilities	03	06
Video Centre	Nil	Nil
Smart classrooms	03	06
No. of important equipment purchased (≥ 1-0 lakh) during the current year	70 Nos	48 Nos
Value of the equipment purchased during the year (Rs. In Lakhs)	1202.11	238.99
Others (Furniture / IT Equipment / Other equipment)	--	18 Nos Rs. 73,59,874.50/-

## 4.2 Library as a Learning Resource

### 4.2.1 Library is automated {Integrated Library Management System (ILMS)}

Name of the ILMS software	Nature of automation (fully or partially)	Version	Year of automation
KOHA	Fully	18.11	2012

### 4.2.2 Library Services:

Particulars	Existing		Newly added		Total	
	No.	Value	No.	Value	No.	Value
Text Books	32162	1,55,93,784	13320	6886010	45482	2,24,79,794
Reference Books	1006	53,28,040	210	152000	1216	54,80,040
e-Books	10	--	10	--	20	--
Journals	135	4,98,470	117	--	252	4,98,470
e-Journals	13,949	1,61,37,239	124	--	14073	1,61,37,239
Digital Database						
CD & Video	150	--	36	--	186	--
Library automation	--	--	--	---	--	--
Weeding (Hard & Soft)	--	--	--	---	--	--
Other (specify)	--	--	--	---	--	--

### 4.2.3 E-content developed by teachers such as e-PG-Pathshala, CEC (under e-PG-Pathshala CEC (under Graduate) SWAYAM other MOOCs platform NPTEL/NMEICT/any other Government initiatives & institutional Learning Management System (LMS), etc.,

Name of the teacher	Name of the module	Platform on which module is developed	Date of launching e-content
Dr. P. Srinivasan	Quality Benchmark for Curriculum Development	SWAYAM	01.11.2018

\*MOOCs-ICT cell of CUTN works for MOOCs, ICT and SWAYAM (except Swayamprabha) components. The core idea of MOOCs-SWAYAM is the provision of higher education courses to anyone with internet access and personal motivation to (i) participate in learning activities that are delivered in video segments supplemented with online tutorials, and then (ii) be assessed using automated online self-evaluation exercises and summative quizzes and tests.

## 4.3 IT Infrastructure

### 4.3.1 Technology Up-gradation (Overall)

	Total computers	Computer Labs	Internet	Browsing Centres	Computer Centres	Office	Departments	Available bandwidth (MGBPS)	Others
Existing	695	15	28	1	-	15	22	1 Gbps	23
Added	21	3	-	-	-	2	4	-	14
Total	716	18	28	1	-	17	26	1 Gbps	37

4.3.2 Bandwidth available of internet connection in the Institution (Leased line): 1 GBPS

4.3.3 Facility for e-content

<b>Name of the e-content development facility</b>	<b>Provide the link of the videos and media centre and recording facility</b>
Studio in Media Department	<a href="https://www.flickr.com/photos/cutntvr/sets/72157712749351353/">https://www.flickr.com/photos/cutntvr/sets/72157712749351353/</a>
CUTN MOOCs channel	<a href="https://www.youtube.com/channel/UCfdVEOSa42Oo533Y0UJiiQw?view_as=subscriber">https://www.youtube.com/channel/UCfdVEOSa42Oo533Y0UJiiQw?view_as=subscriber</a>
MOOCs e-courses	<a href="https://courses.cutn.ac.in/">https://courses.cutn.ac.in/</a>

#### 4.4 Maintenance of Campus Infrastructure

4.4.1 Expenditure incurred on maintenance of physical facilities and academic support facilities, excluding salary component, during the year

<b>Assigned budget on academic facilities</b>	<b>Expenditure incurred on maintenance of academic facilities</b>	<b>Assigned budget on physical facilities</b>	<b>Expenditure incurred on maintenance of physical facilities</b>
3.60 Crore	3.60 Crore	10.97 Crore	10.97 Crore

4.4.2 Procedures and policies for maintaining and utilizing physical, academic and support facilities – laboratory, library, sports complex, computers, classrooms, etc., (Maximum 500 words) (information to be available in the institutional website, provide link)

- All Science Laboratories, Computer Labs and Library have their own set of policies and procedures.
- We have purchased a procurement manual for the purchasing of types of equipment, chemicals, and other necessary requirements.
- Newly admitted students are given a students' handbook within one month of commencement of classes.
- The academic calendar is being circulated to all students for detailed references to the courses.  
<https://cutn.ac.in/central-library/>  
<https://cutn.ac.in/sports/>  
[https://cutn.ac.in/wp-content/uploads/2019/03/Department\\_of\\_Life\\_Sciences\\_Brochure.pdf](https://cutn.ac.in/wp-content/uploads/2019/03/Department_of_Life_Sciences_Brochure.pdf)  
[https://cutn.ac.in/wp-content/uploads/2019/03/micro\\_biology\\_lab.jpeg](https://cutn.ac.in/wp-content/uploads/2019/03/micro_biology_lab.jpeg)  
[https://cutn.ac.in/wp-content/uploads/2019/03/Education\\_chemistry\\_lab.jpeg](https://cutn.ac.in/wp-content/uploads/2019/03/Education_chemistry_lab.jpeg)  
[https://cutn.ac.in/wp-content/uploads/2018/10/Computer\\_labs\\_CUTN.jpg](https://cutn.ac.in/wp-content/uploads/2018/10/Computer_labs_CUTN.jpg)  
[https://cutn.ac.in/wp-content/uploads/2019/08/Student\\_Handbook\\_2019.pdf](https://cutn.ac.in/wp-content/uploads/2019/08/Student_Handbook_2019.pdf)

## Criteria V – Student Support and Progression

### 5.1 Student Support

#### 5.1.1 Scholarships and Financial Support

Particulars	Name / Title of the scheme	Number of students	Amount in Rupees
Financial support from Institution	Non-NET Fellowship	78	Rs.8000/- per month

Particulars	Name / Title of the scheme	Number of students	Funding Agency	Amount in Rupees
Financial support from other sources				
a) National	Junior Research Fellowship (JRF)	32	UGC	RS.25,000 /- per month (JRF, RGNF, MANF, DST-Inspire & ICMR) & Rs. 18,000/- per month (ICSSR)
	Rajiv Gandhi National Fellowship (RGNF)	6	UGC	
	Indian Council of Medical Research (ICMR)	1	ICMR	
	Indian Council of Social Science Research (ICSSR)	2	ICSSR	
	Maulana Azad National Fellowship (MANF)	2	UGC	
	DST Inspire Fellowship (DST)	3	DST	
b) International	--	--	--	--

#### 5.1.2 Number of capability enhancement and development schemes such as Soft skill development, Remedial Coaching, Language Lab, Bridge courses, Yoga, Meditation, Personal Counselling, and Mentoring, etc.,

Name of the capability enhancement scheme	Year of implementation	Number of students enrolled	Agencies involved
UGC NET Coaching class	2018	108	CUTN
PRA & Street Theatre Workshop (5 days)	2018	38	Individual Trainers
Remedial Coaching	2018	138	Dept faculty
Gurukula	2016	226	--
Mentoring	2018	1378	CUTN
Remedial Coaching	2018	19	Only faculty
Bridge Courses	2018	20	CUTN
Personal Counselling	2017	36	Counselling Cell, CUTN

5.1.3 Students benefited by guidance for competitive examinations and career counseling offered by the institution during the year.

Year	Name of the scheme	Number of benefited students by Guidance for competitive examination	Number of benefited students by Career Counselling activities	Number of students who have passed in the competitive exam	Number of students placed
2018-2019	CSIR-NET Coaching Cell & Service Cell	103	310	NET – 75 SET – 1 GATE – 18 Other – 9	197 students

5.1.4 Institutional mechanism for transparency, timely redressal of student grievances, Prevention of sexual harassment and ragging cases during the year

Total grievances received	No. of grievances redressed	Average number of days for grievance redressal
03	03	90 Days

## 5.2 Student Progression

5.2.1 Details of campus placement during the year: 197 Students

On-Campus			Off-Campus		
Name of the Organizations Visited	Number of Students Participated	Number of Student Placed	Name of the Organizations Visited	Number of students participated	Number of Students Placed
247.ai	15	4	Aids Control Society	6	1
ABinBev	16	4	Albio Technologies, Kochi	8	1
Accenture	5	1	Anamaya Hospital, Kannur	5	1
Accenture Digital Analyst	5	2	Aroh-Sankaranethralaya eye hospital	4	1
Accenture Operations Data Scientist	10	4	Biocon, Bangalore	7	1
Acies Consulting	15	4	Cashew export promotion council of India, Kollam	3	1
Ambalal Shares & Stocks Pvt, Ltd.,	14	5	Central University of Tamil Nadu, Thiruvarur	3	3
American Express	10	5	CSB Ltd	3	1



On-Campus			Off-Campus		
Ambalal Shares and Stocks, ESAF Small Finance Bank	5	2	Childline India Foundation, Chennai	4	1
Athena Infonomics	9	3	Dean Foundation	5	1
CAFRAL	5	1	Deloitte-H&S	5	1
Citi	12	5	Deloitte-S&O	4	1
Cognizant	9	4	Don Bosco Higher Secondary School, Perambalur	10	1
Crisil	10	2	Dr. Shenoy's CARE hospital, Centre for Arthritis and Rheumatis Excellence,Ernakulam	3	1
D&B	6	1	DSM Soft Private Limited, Trichy	5	1
Deloitte-MRM	15	5	E TV, Hyderabad	10	2
Deloitte-S & O	12	2	Eureka Forbes & LuLu Group International	22	1
Don Bosco Matric School, Thiruvarur	5	1	Eureka Forbes, Ambalal Shares and Stocks & Cuginzant	22	1
ESAF Small Finance Bank	12	7	Eurekha Forbes & PAR Formulation Pvt Ltd	22	1
Eurekha Forbes	8	2	Government Employee	3	1
Evalueserve	13	7	Govinda Pai Memorial Govt. College, Kasaragod, Kerala.	5	1
Ford	15	3	Holy Cross Home Science College Thoothukudi.	5	1
Fractal Analytics	8	1	ICICI Bank	4	1
Goodwill Wealth Management Pvt, Ltd.,	18	6	IISc, Bangalore	6	1
Honeywell	5	2	Indian Institute of Management, Nagpur	4	1
ICICI Prudential	6	1	Indian Post (Temporary), Odisha	3	1

On-Campus			Off-Campus		
IFMR	7	1	Institute of Language Management, Bangalore	2	1
Infinite Software Solution Pvt, Ltd., Chennai	5	1	Just Dial, Eureka Forbes & UDAAN	22	1
Infosys	13	5	Just Dial, ICICI	22	1
JPMC	14	6	Kendriya Vidyalaya, Thiruvarur	5	1
Just Dail, Ambalal Shares and Stocks & ESAF Small Finance Bank	9	1	KrispNewz	6	1
Just Dail, Eureka Forbes	8	1	Malayala Manorama, Kottayam, Kerala	4	1
Just Dial	7	1	MES-KVM, College, Valancherry, Kerala	3	1
Kabbage	12	4	Mithra Clinic, Palarivattom, Cochin	4	1
Landmark	10	3	MPMM SN Trust College,Kerala.	5	1
Latent View	8	2	National Institute of Technology West Godavari, Andhra Pradesh	3	1
Lowe's India	11	3	National Library, Kolkata Ministry of Culture, Government of India	4	1
Osiz Technologies	7	1	New Year Media, Angamaly, Kochi, Kerala	6	1
Royal Bank of Scotland	9	2	NIMR, Chennai	5	2
Sankari Matric Hr. School, Thirunelveli	7	1	NIT Jamshedpur	6	1
Simho Hr Services, Chennai	6	1	Non-Governmental Organisation	4	1
SixRedMarbles	6	1	Paalana Institute of Medical Sciences, Palakkad	3	1

On-Campus			Off-Campus		
Name of the Organizations Visited	Number of Students Participated	Number of Student Placed	Name of the Organizations Visited	Number of students participated	Number of Students Placed
TRAI	4	2	Paragon Dynamic Info System Private Limited	6	2
Unique Info	5	1	PSM HYUNDAI	9	1
Wells Fargo	13	7	PVS Hospital, Calicut	5	1
			RAC College, Thiruvarur.	4	2
			SECON Banglore	5	1
			SITJEE Classes, Tirupur, Tamil Nadu	4	1
			Swami Dayanandha College - Manjakudi, Thiruvarur	6	1
			Swami Vivekananda Vidyashram CBSE School, Thiruvarur	3	1
			Tata hospital	5	1
			Tata Institute of Social Sciences	4	1
			Teacher in School Rajagiri Christu Jayanthi Public School.	4	1
	--		TERI- Deakin Nanobiotechnology Center- Delhi	5	1
			Thanal Trust	6	1
			Unibiosys Biotech research lab	10	2
			Vellore Institute of Technology (VIT)	5	1
			Wayanad, Kerala	4	1
			Working as a guest lecturer in Jamia hasaniya college Palakkad.	3	1
			Working as a guest lecturer in SSM college, Rajakad, Kerala.	2	1

5.2.2 Student Progression to higher education in percentage during the year

Year	Number of students enrolling into higher education	Programme graduated from	Department graduated from	Name of institution joined	Name of Programme admitted to
2018-2019	2	M.L.I.Sc	Library and Information Science	Central University of Tamil Nadu, Thiruvarur - 610 005	Ph.D. (Non-NET)
		M.L.I.Sc	Library and Information Science	Central University of Tamil Nadu, Thiruvarur - 610 005	M.Phil.
2018-2019	4	M.sc. Geography	Geography	Central University of Tamil Nadu, Thiruvarur - 610 005	M.Phil.
		M.sc. Geography	Geography	Ruby College of Preceptors, Madurai	B.Ed.
		M.sc. Geography	Geography	Central University of Tamil Nadu, Thiruvarur - 610 005	Ph.D.
		M.sc. Geography	Geography	CMS College for Education, Coimbatore	B.Ed.
2018-2019	5	M.A. Classical Tamil Studies	Tamil	Jawaharlal Nehru University (JNU), Delhi	Ph.D.
		M.A. Classical Tamil Studies	Tamil	Jawaharlal Nehru University (JNU), Delhi	Ph.D. Integrated
		M.A. Classical Tamil Studies	Tamil	Central University of Tamil Nadu (CUTN), Thiruvarur	Ph.D.
		M.A. Classical Tamil Studies	Tamil	Annamalai University, Chidambaram	M.Phil.
		M.A. Classical Tamil Studies	Tamil	Tamil University, Thanjavur	M.Phil.
2018-2019	2	MSc Microbiology	Microbiology	Central University of Tamilnadu	Ph.D.
		MSc Microbiology	Microbiology	CDRI, Lucknow	Ph.D.
2018-2019	1	M.A. Mass Communication	Media & Communication	Central University of Tamilnadu	M.pPhil
2018-2019	2	MA English	English	English and Foreign Languages University	B.Ed
		MA English	English	Regional Institute of Education Mysore	B.Ed

Year	Number of students enrolling into higher education	Programme graduated from	Department graduated from	Name of institution joined	Name of Programme admitted to
2018-2019	2	M.Sc Computer Science	Computer Science	Tamil University	M.Phil
2018-2019	8	MA Economics	Economics	The Gandhigram Rural Institute (Deemed to be University)	M.Phil in Economics
		MA Economics	Economics	The Gandhigram Rural Institute (Deemed to be University)	M.Phil in Economics
		MA Economics	Economics	The Gandhigram Rural Institute (Deemed to be University)	M.Phil in Economics
		MA Economics	Economics	The Gandhigram Rural Institute (Deemed to be University)	M.Phil in Economics
		MA Economics	Economics	Central University of Gujarat	Ph.D. in Economics
		Int. MA Economics	Economics	University of Hyderabad	MA in Economics
		Int.MA Economics	Economics	University of Hyderabad	MA in Media and Mass Communication
		Int.MA Economics	Economics	Azim Premji University, Bangalore	MA in Economics
2018-2019	6	M.Tech Materials Science	Material Science	IIT HYDERABAD	Ph.D.
		M.Tech Materials Science	Material Science	Brunel University, London	Ph.D.
		M.Tech Materials Science	Material Science	University of Osla, Norway	Ph.D.
		M.Tech Materials Science	Material Science	IIT Mandi	Ph.D.
		M.Tech Materials Science	Material Science	Chonbuk National University, Korea	Ph.D.
		M.Tech Materials Science	Material Science	CSIR-CERCI, Karaikudi	Ph.D.

Year	Number of students enrolling into higher education	Programme graduated from	Department graduated from	Name of institution joined	Name of Programme admitted to
2018-2019	12	I M.Sc Chemistry	Chemistry	Helmholtz Research Institute, Germany	Ph.D.
		I M.Sc Chemistry	Chemistry	Central University in Puducherry	Ph.D.
		I M.Sc Chemistry	Chemistry	Gandhigram Rural Institute	Ph.D.
		I M.Sc Chemistry	Chemistry	IISER - Trivandrum	Ph.D.
		I M.Sc Chemistry	Chemistry	National Institute of Technology, Warangal	Ph.D.
		I M.Sc Chemistry	Chemistry	Regional Institute of Education Mysore	B.Ed
		I M.Sc Chemistry	Chemistry	Bharathidasan University, Trichy	MBA
		I M.Sc Chemistry	Chemistry	Regional Institute of Education Mysore	B.Ed
		M.Sc Chemistry	Chemistry	Central University of Tamil Nadu, Thiruvarur	M.Phil
		M.Sc Chemistry	Chemistry	NIIST-Trivandrum	Ph.D.
		M.Sc Chemistry	Chemistry	University of Iceland	Ph.D.
		PGDCLT	Chemistry	Pragati Mahavidyalaya College, Hyderabad	M.Sc
2018-2019	9	I.MSc Physics	Physics	School of Engineering and Natural Sciences, Science Institute, (UoI)	Ph.D. in Computational Engineering
		I.MSc Physics	Physics	Hyderabad University	Ph.D.
		I.MSc Physics	Physics	Pondicherry University	M.Tech Green Energy Technology
		I.MSc Physics	Physics	University of Wisconsin Mandison, USA	Ph.D.
		I.MSc Physics	Physics	University of Warsaw, Poland	Ph.D.
		I.MSc Physics	Physics	Research Center for Quantum Information, Institute of Physics, Slovak Academy of Sciences, Slovakia.	Ph.D.
		I.MSc Physics	Physics	IIIT, Kanchipuram	Ph.D.
		I.MSc Physics	Physics	CUTN	Ph.D.
		I.MSc Physics	Physics	Central University of Tamil Nadu	Ph.D.

Year	Number of students enrolling into higher education	Programme graduated from	Department graduated from	Name of institution joined	Name of Programme admitted to
2018-2019	17	I M.Sc Life Sciences	Life Science	Australian Natioanla University - Canberga	Ph.D.
		I M.Sc Life Sciences	Life Science	ICER Bhubaneswar	JRF
		I M.Sc Life Sciences	Life Science	Salim Ali Centre for Ornithology and Natural History - Coimbatore	JRF
		I M.Sc Life Sciences	Life Science	RGCB Thiruvananthapuram	Ph.D.
		I M.Sc Life Sciences	Life Science	University of Verona	Ph.D.
		I M.Sc Life Sciences	Life Science	Salim Ali Centre for Ornithology and Natural History	Ph.D.
		I M.Sc Life Sciences	Life Science	Bhaskar College Balotra Rajasthan	Assistant Professor
		I M.Sc Life Sciences	Life Science	National Repository of Information for Women, Pune	Ph.D.
		I M.Sc Life Sciences	Life Science	Community College, Bangalore	Assistant Professor
		I M.Sc Life Sciences	Life Science	St.John's, Bangalore	SRF
		I M.Sc Life Sciences	Life Science	National Institutes of Technology	Ph.D.
		I M.Sc Life Sciences	Life Science	Indian Institute of Technology Kanpur	Ph.D.
		I M.Sc Life Sciences	Life Science	Manipal Academy of Higher Education, Mangalore	Ph.D.
		I M.Sc Life Sciences	Life Science	NCBS Banglore	CSIR JRF
		I M.Sc Life Sciences	Life Science	Italian Government Scholarship	Ph.D.
		2018-2019	3	M.Sc Applied Psychology	Applied Psychology
M.Sc Applied Psychology	Applied Psychology			Gautam Budhha University	M.Phil
M.Sc Applied Psychology	Applied Psychology			Pondicherry University	Ph.D

Year	Number of students enrolling into higher education	Programme graduated from	Department graduated from	Name of institution joined	Name of Programme admitted to
2018-2019	4	MSW	social work	Central University of Tamil Nadu	M.Phil, Central University of Tamil Nadu
		MSW	social work	Gandhi Research Foundation, Maharashtra	Diploma in Sustainable Rural Reconstruction
		MSW	social work	Gandhi Research Foundation, Maharashtra	Diploma in Sustainable Rural Reconstruction
		MSW	social work	Gandhi Research Foundation, Maharashtra	Diploma in Sustainable Rural Reconstruction
2018-2019	3	M.A History	History	Sree Sankaracharya University of Sanskrit, Kalady	Mphil
		M.A History	History	Mannam Memorial College of Teacher Training, Ezhamle, Kollam	B.Ed
		M.A History	History	Zainab Memorial College of Teacher Education, Cherkala, Kannur University	B.Ed

5.2.3 Students qualifying in-state / national/international level examinations during the year (eg: NET/SET/SLET/GATE/GMAT/CAT/GRE/TOFEL/Civil Services/State Government Services)

Items	No. of Students selected / qualifying	Registration number / Roll number for the exam
NET	75	TN0204502665, TL0102506424, 190510957444, 190510191921, 190510424030, 190510339903, 190511023693, 74027642, I140414, I130404, I140401, I140411, P160314, P160301, P160306, P160312, P160313, P170306, R170302, KL1002500179, 1722302, 1722301, KK1208501092, I140413, I140491, P160301, I140414, P170919, P172115, P192117, P172109, P182109, P172108, P182110, P182106, R182101, TN1402500976, KL0903502617, KL1801500124, KL1002500533, KL0406505650, 73005709, 507280, 520936, 408436, 403378, 70017507, TN1201500655, TN1201500661, 114383, 130198, 108735, 113352, 111923, P171825, P171816, KK12501817, TN01500146, KL09503100, 378653, 321642, 343820, P170701, P170703, P170709, P170710, P170714, P170716, P160705, P160711, P180720, P180701, I150411, I150404, R180301



Items	No. of Students selected / qualifying	Registration number / Roll number for the exam
SET	01	061806216
SLET	--	--
GATE	18	PH19S47106175, PH19S47056166, MA19S47082030, MA19S47107036, CY19S17085016, CY19S17106018, CY19S17073016, CY19S17040018, CY19S17106036, CY19S17107035, CY19S17027018, CY19S17051020, CY19S11312044, CY19S17056056, XL18S11322086, XL18S11304097, XL19S27049054, XL19S21308014
GMAT	--	--
CAT	--	--
GRE	--	--
TOFEL	--	--
Civil Services	--	--
State Government Services	--	--
Any other (Specify)	3 (JRF) 2 (JAM 2019) 1 (Army) 3 (IELTS)	I140414, P160312, KL1002500179 CY716A057, PH703F218 I150021 300426, 124750, 035617

5.2.4 Sports and cultural activities/competitions organized at the institution level during the year

Activity	Level	Participants
"Genesis 2018" Orientation Programme for the freshers on 23 <sup>rd</sup> to 25 <sup>th</sup> July 2018	University Level	First-Year students of all departments
Annual Inter-Departmental Sports Tournament (Festival de Sport 2018)	University Level Inter-Department	600
National Sports Day – Badminton Tournament 2018	University Level	50
Pongal Celebration on 28.01.2019	University Level	All departments
Holi Celebration on 24.03.2019	University Level	All departments
Aarambh Cultural Celebration on 19.03.2019	University Level	All departments
Ugadi Celebration on 08.04.2019	University Level	All departments
Workshop on Self Defence for Girls	University Level	100

<b>Activity</b>	<b>Level</b>	<b>Participants</b>
Inter-District Under 19 Cricket Tournament Organised by Tamil Nadu Cricket Association, Thiruvarur District	Inter-District	60
5 <sup>th</sup> International day of yoga	District Level	400
Student Activity Club programmes	University Level Programmes by the Social Work department	MSW students and students from other departments
Football	Runner at University Level	Kethavath Suman / Kavin Mughil from Music Department
English Literary Fest	University Level	Students from various departments of CUTN
Film Screenings	University Level	Students from various departments of CUTN
Farewell / Cultural Activity	Department Level	All I M.Sc students have participated
Farewell / Cultural Activities	Department Level	All M.Tech students have participated
72th Anniversary Independence festival	State Level	13 students participated in the Tamil department, CUTN
Poetry & Eloquence	District Level	02
Eloquence	District Level	01
Elixir 2019	Department Level	I M.Sc Students
Science Day Celebration	Department Level	I M.Sc Students
Badminton competition	Department Level	I M.Sc Students
National Science Day	Essay writing and Quiz competition	M.Sc Microbiology students

### 5.3 Student Participation and Activities

5.3.1 Number of awards/medals for outstanding performance in cultural activities at national/international level (award for a team event should be counted as one)

<b>Year</b>	<b>Name of the award/medal</b>	<b>National / International</b>	<b>Sports</b>	<b>Student ID number</b>	<b>Name of the student</b>
Nil					

5.3.2 Activity of Student Council & representation of students on academic & administrative bodies/committees of the institution (maximum 500 words)

**The following specific activities are undertaken by the Council:**

The student council was constituted with 22 students and 10 Ph.D. Scholars from various schools.

The student council members were assigned various responsibilities as follows:

S.No	Positions	Members	Department
1	Sports Secretaries	A.Subash V.Asmath Balaji	Chemistry Geography
2	Cultural Secretaries	Arutla Rohit Priyangshu Dehingia I.Ranjith K.V.Rafiya Kadali Sai Kalyan	Music EPH Life Sciences Education Computer Science
3	Magazine Secretaries	Amrithabalakrishnan Jitin Joseph	Media & Communication English
4	Library Secretary	Joona Thommi	Library and Information Science
5	Placement Secretaries	Athul K Madhu D.S.Gagana S.Sriram	Management Commerce Materials Science
6	Student Welfare Secretaries	L.Kamban Rajesh Babu Pammi K.P.Muhammed Niyas	Physics Education Computer Science
7	Students Incharge Discipline	VA.Ashfaq Ali R.Ananthu Jaisheela Vimali M.S.Anandha Krishnan S.Vishnupriya P.Sainaba	Commerce History Life Sciences Mathematics Applied Psychology Applied Psychology
8	Movie Club Secretaries	D.Jishnu S.Leo George	Media & Communication Geography
9	Tamil Literary Club Secretary	S.R.Vinitha	Tamil
10	English Literary Club Secretary	P.Sreenath	English
11	Hindi Literary Club Secretary	K.S.Sreeraj	Hindi
12	Quiz Club Secretaries	B.N.Shabin C.Akash	Social Work Economics
13	Science Club Secretaries	Geo Sunny S.Sreesha Afsana	Physics Materials Science Microbiology

**The students represented the following in the council meeting:**

- ❖ Regular Wi-Fi connection at hostel and departments.
- ❖ Roads on the campus should be repaired.
- ❖ Proper and regular cleaning of the hostel premises.
- ❖ Stipend related difficulties were pointed out.
- ❖ Requisition for shed facility in front of the new boys' hostel.
- ❖ Students proposed a separate dining hall for the new girls' hostel.

## 5.4 Alumni Engagement

5.4.1 Whether the institution has registered Alumni Association? Yes / **No**, if yes give details (maximum 500 words): ✓

5.4.2 No. of registered Alumni: 223

5.4.3 Alumni contribution during the year (in Rupees): Nil

5.4.4 Meetings/activities organized by the Alumni Association:

1. Organized a motivational talk to our students - Mr. Visakh VS, Alumni of Department of Chemistry delivered a motivational talk on "Interdisciplinary Approach in Scientific Research" and "Research opportunities in Ireland" on 16.08.2018.
2. Organized Fourth Annual Alumni Meet on 28.09.2018 at 3:00 p.m.
3. The Department of Tamil organized an Alumni meet on 26.09.2018.
4. The Department of Chemistry organized an Alumni meet on 28.09.2018.
5. The Department of Geography conducted its first Alumni meet on June 27<sup>th</sup>, 2019.

## Criteria VI – Governance, Leadership, and Management

### 6.1 Institutional Vision and Leadership

6.1.1 Mention two practices of decentralization and participative management during the last year (Maximum 500 words):

CUTN has already delegated the works towards decentralization and participative management.

➤ **Decentralization of Admission procedure:**

Admission counseling has been decentralized at the school level, with the departments under each school having their own admission committee which admits students as per University norms.

➤ **Organizing the event, "Genesis"**

Genesis, the inaugural event serving as the orientation program for every new batch of students joining CUTN is the finest example of participatory management in our campus. Every year, representatives from not only all 11 schools and 26 academic departments but every department or unit that makes up the university, from the health center to the IQAC itself, come together to welcome the new batch into the university with presentations that orient students to the campus and its various elements along with the do's and don'ts expected of students here.

6.1.2 Does the institution have a Management Information System (MIS)? Yes / No / **Partial:** ✓

- Related to (i) Human Resource Management (Recruitment, CAS, Salary Management, employee engagement)
- Financial management - Online Payment, fees collection and Scholarships
- Materials and logistics management – All Purchases
- Student affairs – Feedback for every semester
- Examinations – Online registration, result, marks statement and revaluation.

## 6.2 Strategy Development and Deployment

6.2.1 Quality improvement strategies adopted by the institution for each of the following (within 100 words)

### ❖ Curriculum Development:

1. The Board of Studies of each department consists of expert academicians and field specialists to upgrade the curriculum regularly, with program-specific outcomes and learning outcomes.
2. In order to provide more flexibility, Core Electives, Foundation courses and open elective courses from SWAYAM / MOOC's are offered.
3. CUTN meticulously developed strategic action plans and course hand-outs for effective implementation of the upgraded curriculum.
4. Teachers are encouraged to impart the curriculum through innovative pedagogical methods along with conventional methods.

### ❖ Teaching and Learning:

1. LCD projectors with Wi-Fi Connectivity are available in all the departments.
2. Smart classrooms are available in all schools.
3. Remedial classes are conducted regularly to help students from rural and marginalized sections of society.
4. Organized capacity building programmes for faculty members using ICT, online sources and smart classrooms.
5. Innovative vocational and soft skill courses have been introduced to develop the competencies of learners.
6. Established and well-equipped state-of-the-art labs for the departments of Physics, Chemistry, Life Sciences, Epidemiology & Public Health, Microbiology, Computer Sciences, Materials Science and Geography.
7. MOOC / SWAYAM courses have been emphasized.
8. NKN facility created.
9. Online resources have been added and are updated regularly in the Library.
10. Swayam Prabha and educational TV channels have been added.
11. The faculty members are encouraged to attend faculty development programmes to update their knowledge and skills with nascent developments.
12. Field/Industrial visits for the students are organized to obtain hands-on experience.
13. Organized departmental workshops/Seminars for students to encourage students to present their Project work and share their field visit experiences.
14. In order to enable the students technologically, they are encouraged to use smart-board while presenting their papers in departmental seminars.
15. The IQAC conducts a student appraisal of teachers and takes parents' feedback to evaluate the teaching-learning process at the Institution level and suggest measures for improvement.

### ❖ Examination and Evaluation:

1. Bar code in answer sheets, MCQs added in question papers.
2. Assignments and Departmental Seminars are made indispensable to evaluate student progress.
3. The dissertation is made compulsory in the IV semester of each PG programme and in the X semester of each Integrated programme.
4. Continuous evaluation of the students at all levels under the CBCS pattern.

❖ **Research and Development:**

1. The faculty members are encouraged to engage in activities that promote research and development and strengthen consultancy services. In its efforts to train, motivate and reward faculty, the institution encourages members to attend capacity development courses/conferences/Workshops/Seminars/training programmes, etc., and to be research-oriented.
2. Interdisciplinary, multi-disciplinary and trans-disciplinary research approaches have been promoted in identified areas.
3. Each department has been suggested in thrust areas for research.
4. Research Advisory Committee has been constituted for each Research Scholar.
5. Newly recruited faculty members are encouraged to apply for the start-up grants for research.

❖ **Library, ICT and Physical Infrastructure / Instrumentation**

1. The Central Library has implemented RFID (Radio Frequency Identification) Technology and has also installed CCTV cameras to improve library services and security.
2. KOHA software is used for the Library Automation system.
3. The digital knowledge centre is provided with a computer lab consisting of 30 computers.
4. SWAYAM online course.
5. NPTEL /National digital library enabled programmes.
6. Own book reading area facility.
7. WiFi-enabled in and around the Central Library.
8. Smart classrooms equipped with interactive boards, projectors, computers, multimedia speakers, etc. for e-learning.
9. Smart classroom facilities have been established in 8 departments in CUTN. Each smart classroom has the following equipment: Interactive board, Desktop computer with external control panel, Short through a multimedia projector, Visualizer, etc.
10. CUTN Guesthouse provides all the comforts for visitors. The rooms are fully furnished with air-conditioning facility.
11. Solar street lights installed.
12. Gym facility provided to students & staff members.
13. Sports ground for Outdoor games like Football, Basketball, Volleyball, Cricket, Badminton, Kho-Kho and courts, and rooms for Indoor games like table tennis, Chess, Carom board, etc., are provided.

❖ **Human Resource Management:**

Faculty induction programmes were organized for new faculties. Training and development programmes were conducted for the up-gradation of skills and abilities of the non-teaching staff.

❖ **Industry Interaction / Collaboration**

1. Experts from Industries are invited to be part of the BoS and School Board and also teach select modules.
2. Through industry collaboration, CUTN students also benefit from Internship programmes.
3. Industrial experts/representatives are invited to be members of the Governing Council, Academic Council, and the IQAC. Their guidance is sought and their inputs and suggestions are implemented. Such interaction serves to enhance job opportunities

and facilitate the introduction of programmes with industry collaborations. Seminars, workshops, and talks with experts from the industry as resource persons are organized by the departments. In addition, some departments employ guest faculties from industry and conduct guest lectures by industrial experts.

#### ❖ **Admission of Students**

1. Decentralized counseling and admissions were done for UG & PG programmes.
2. Standard parameters for the admission of students are being followed which include the following steps:-
  - i. Notification of the admission in electronic and print media.
  - ii. CUCET examination (CUTN is part of this consortium)
  - iii. Preparation of Merit list
  - iv. Provisional admission
  - v. Declaration of admission list
3. Reservation policy as per Government of India guidelines is followed strictly.
4. Physically challenged students and minorities are given preference in admission as per the rules of reservation.
5. Students are admitted based on their merit which ensures quality in admission, as outlined in the handbook and prospectus of the University.

#### 6.2.2 Implementation of e-governance in areas of operations:

##### ❖ **Planning and Development**

- CUTN has already initiated online feedback systems for Students/Faculty/non-teaching staff.
- Institute is in the process of an online PBAS system through IQAC.
- The University has initiated the work pertaining to online CAS through IQAC.
- Alumni of the university have enrolled their names online.

##### ❖ **Administration**

- ❖ Applications for the teaching/non-teaching posts were received online only.
- ❖ The availability of the library books in the CUTN library can be viewed through OPAC and books issues/returns are made through online KOHA software.

##### ❖ **Finance and Accounts**

All Payment and Receipts are in Digital mode transactions. CUTN adopted PFMS-EAT Module for all payments.

##### ❖ **Student Admission and Support**

Everything from application to admission confirmation and subsequent fee remittance is done online.

##### ❖ **Examination**

1. Course and examination registration, hall ticket generation and result publications are online.
2. Degree certificates are uploaded in National Academic Depository (NAD) after convocation.

### 6.3 Faculty Empowerment Strategies

6.3.1 Teachers provided with financial support to attend conferences/workshops and towards membership fee of professional bodies during the year

Year	Name of teacher	Name of Conference / Workshop attended for which financial support provided	Name of the professional body for which membership fee is provided	Amount of support
2018-2019	Dr. K. G. Sudhier	National Conference on Scholarly Communication, Open-access Publishing, and Ethics	CUTN	Maximum of Rs,10,000/- or lesser with actual bills
	Dr. V. Vithya	First International Conference on School Psychology organized by Malaysian School Psychology Association	InSPA	Rs.15,000/- (Registration and Accommodation)
	Dr. V. Vithya	Annual Convention of National Academy of Applied Psychology	National Academy of Applied Psychology	Rs.8,000/- (Registration, Travel, and Accommodation)
	Dr. R. Roopkumar	International Congress of Mathematicians, 01.08.2018 to 09.08.2018, at Institute of Pure and Applied Mathematics, Rio de Janeiro, Brazil	Open Arms Grant for ICM 2018	R\$ 8,800/-
	Prof. T. Mohan Das	CARBO-XXXIII	Organized by ACCTI	Rs.10,000/-
	Dr. V. Rajendiran	9 <sup>th</sup> Asian Biological Inorganic Chemistry Conference held from December 09-14, 2018, organized by National University of Singapore	International travel support by SERB, New Delhi, India	Rs.25,315/-
	Dr. John Prakash	1. ACS 2. ISRAPS	Member of ACS (ID: 31886586) Lifetime member ISRAPS (ID: L-505)	--
	Dr. K. Balasubramani	Climate Change, Disaster Risk Reduction, and Sustainable Development through Geospatial Technologies	ICSSR Travel Grant	Rs.20, 000



<b>Year</b>	<b>Name of teacher</b>	<b>Name of Conference / Workshop attended for which financial support provided</b>	<b>Name of the professional body for which membership fee is provided</b>	<b>Amount of support</b>
2018-2019	Dr. S. Rameshkumar	Foundations of Mixed Methods Research, IIM Indore	CUTN	Maximum of Rs,10,000/- or lesser with actual bills
	Dr. Lekha D Bhat	National Conference	CUTN	Maximum of Rs,10,000/- or lesser with actual bills
	Prof. T. Mohan Das	Carbo XXXIII conference	CUTN	Maximum of Rs,10,000/- or lesser with actual bills
	Dr. V. P. Ramesh	National Conference	CUTN	Maximum of Rs,10,000/- or lesser with actual bills
	Dr. S. G. Ramkumar	National Conference	CUTN	Maximum of Rs,10,000/- or lesser with actual bills
	Dr. Prabha Vadivelu	National Conference	CUTN	Maximum of Rs,10,000/- or lesser with actual bills
	Dr. V. Rajendiran	National Symposium	CUTN	Maximum of Rs,10,000/- or lesser with actual bills
	Dr. S. Ramesh	Course on foundation	CUTN	Maximum of Rs,10,000/- or lesser with actual bills
	Dr. Anand Thakur	International Conference	CUTN	Maximum of Rs,10,000/- or lesser with actual bills
	Prof. R. Karpaga Kumaravel	NAAC Conference	CUTN	Maximum of Rs,10,000/- or lesser with actual bills

6.3.2 Number of professional development / administrative training programmes organized by the University for teaching and non-teaching staff during the year.

Year	Title of the professional development programme organized for teaching staff	Title of the administrative training programme organised for non-teaching staff	Dates (from-to)	No. of participants (Teaching staff)	No. of participant (non-teaching staff)
2018	--	Orientation programme (Grievance)	10 <sup>th</sup> September 2018	--	65

6.3.3 No. of teachers attending professional development programmes, viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programmes during the year.

Title of the professional development programme	Number of teachers who attended	Date and Duration (from-to)
Participated in Science Academies 98 <sup>th</sup> refresher course in experimental physics, at Central University of Karnataka, Kalaburagi	01 Dr. K. C. Sekhar	01.06.2018 to 16.06.2018
Refresher Course (ARPIT)	01 Dr. Praveen Balabaskara Nina	01.11.2018 to 30.03.2019
Refresher course	01 Prof. S.V.S.S. Narayana Raju	12.11.2018
Refresher Course	01 Dr. Sumalatha	23.11.2018 to 13.12.2018
Refresher Course	01 Dr. Sarathindu Battacharya	07.12.2018 to 27.12.2018
Faculty Development Programme	14 Dr. Taddimurali Dr. Anila Sulochana Dr. K. G. Sudhier Dr. Aas Mohamed Dr. Sumalatha Dr. Madhulika Ben Patel Dr. Anand Patel Dr. Kanaka raju Dr. S. G. Ramkumar Dr. V. Rajendiran Dr. Vittal Babu Gudimetla Dr. M. Shivaprasad Dr. John Prakash Dr. V. Prabha	08.09.2018
PTMT 2018	01 Dr. A. Chandrasekhar	17.12.2018 to 29.12.2018
Orientation Programme	01 Dr. Dhanyashree	23.01.2019 to 19.02.2019

<b>Title of the professional development programme</b>	<b>Number of teachers who attended</b>	<b>Date and Duration (from-to)</b>
Orientation Programme at HRDC, Pondicherry University	02 Dr. Chitra Dr. V. Gunasekaran	01.02.2019 to 28.02.2019
Orientation Programme	01 Dr. Taddimurali	06.02.2019 to 05.03.2019
Orientation Programme	01 Dr. Kanaka raju	06.02.2019 to 05.03.2019
LEAP (Leadership for Academicians Programme)	01 Prof. S.V.S.S. Narayana Raju	11 <sup>th</sup> to 23 <sup>rd</sup> Feb 2019 (University of Hyderabad) & 25 <sup>th</sup> Feb to 2 <sup>nd</sup> March 2019 (Monash University, Melbourne, Australia)
Capacity-building Programme	04 Dr. Boobalakrishnan Dr. Shamala Dr. Nikil Kumar Gouda Dr. Sujit Kumar Behra	13.02.2019 to 24.02.2019
Refresher Course, UGC-HRDC, Bharathiyar University	03 Dr. Nandhini Dr. Saranya Dr.K.G. Sudhier	13.02.2019 to 05.03.2019
Orientation Programme	02 Dr. Aas Mohamed Dr. Balaji	04.03.2019 to 29.03.2019
Orientation programme	01 Dr. Praveen Balabaskara Nina	12.03.2019 to 08.04.2019
Capacity-building Programme	01 Dr. Anand Patel	18.03.2019 to 20.03.2019
Faculty Development Programme	01 Dr. PS. Velmurugan	25.03.2019
Online Refresher Course in Chemistry for Higher Education Faculty	04 Dr. V. Rajendiran Dr. Vittal Babu Gudimetla Dr. M. Shivaprasad Dr. John Prakash	30.03.2019
PTMT 2019	01 Dr. T. Kavaskar	06.04.2019 to 12.04.2019
Management Development Programme	01 Dr. Nikil Kumar Gouda	09.05.2019 to 11.05.2019
Teacher Enrichment workshop on Linear Algebra and Multivariable Calculus	02 Dr. T. Kavaskar Dr. Virendra Kumar	13.05.2019 to 18.05.2019
Orientation Program, UGC-HRDC, Pondicherry University	01 Dr. A. Martin	22.05.2019 to 13.06.2019
Orientation Programme	01 Dr. Anila Sulochana	30.05.2019 to 19.06.2019

6.3.4 Faculty and staff recruitment (No. for permanent / fulltime recruitment)

Teaching		Non-teaching	
Permanent	Fulltime	Permanent	Fulltime
94	94	81	81

6.3.5 \*Welfare Schemes for

Students	<ul style="list-style-type: none"> <li>➤ 7 Scholarships &amp; 8 fellowships are facilitated</li> <li>➤ LIC Group Insurance w.e.f 2017-2018</li> </ul>
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**6.4 Financial Management and Resource Mobilization**

6.4.1 Institution conducts internal and external financial audits regularly (within 100 words each)

**Internal Financial Audits:**

- ❖ Internal Audit is being conducted by a CAG empanelled Chartered Accountant.

**External Financial Audits:**

- ❖ Principal Director of Audit (Central Exp.) does certification Audit and Transaction Audits, regularly.

6.4.2 Funds / Grants received from management, non-government bodies, individuals, philanthropies during the year (not covered in Criterion III)

Name of the non-government funding agencies/individuals	Funds / Grants received in Rupees	Purpose
Nil	Nil	Nil

6.4.3 Total Corpus fund generated: Nil

**6.5 Internal Quality Assurance System**

6.5.1 Whether Academic and Administrative Audit (AAA) has been done?

Audit Type	External		Internal	
	Yes / No	Agency	Yes / No	Authority
Academic	No	--	Yes*	IQAC, CUTN
Administrative	No	--	Yes	IQAC, CUTN

\*In progress

6.5.2 What efforts are made by the University to promote autonomy in the affiliated/constituent colleges? (if applicable): NA

6.5.3 Activities and support from the Parent-Teacher Association (at least three)

- ❖ The parents/guardians with teachers' meetings are conducted regularly.
  - To encourage and promote the cordial relationship between the faculties, students and their parents/guardians.
  - Parents readily joined hands with the university in bringing up their children with discipline and values.

6.5.4 Development programmes for support staff (at least three)

- Computer Training
- Yoga training
- Stress management
- Soft skill training
- Supporting staff is taking part in all activities.
- Regular health Check-up
- The support staff is being deputed for various training programmes.

6.5.5 Post Accreditation initiative(s) (mention at least three)

1. Various batches of alumni have been contacted for strengthening the alumni contribution.
2. Upgradation of the present syllabus to suit the need for employability through a board of studies is sought for with industry involvement in curriculum design and content delivery.
3. To adopt nearby villages to enhance water conservation, social upliftment, etc.,

6.5.6

- a. Submission of Data for AISHA portal :  Yes / No
- b. Participation in NIRF :  Yes / No
- c. ISO Certification :  Yes / No
- d. NBA or any other quality audit :  Yes / No

6.5.7 Number of Quality Initiatives undertaken during the year

Year	Name of quality initiative by IQAC	Date of conducting activity	Duration (from-to)	Number of participants
2018-2019	Renga Pravesham	05.09.2018	05.09.2018	85
	One day orientation programme for the Non-teaching staff	10.10.2018	10.10.2018	75
	Two-day Lecture on Nation-wide competition for students on essential legal provision law related to women	30.10.2018	15 <sup>th</sup> & 16 <sup>th</sup> October 2018	130
	Digital Literacy and online safety programme	18.12.2018	18.12.2018	550
	IQAC External Members meeting	21.01.2019	21.01.2019	17

## Criteria VII – Institutional Values and Best Practices

### 7.1 Number of Quality Initiatives undertaken during the year

7.1.1 Gender Equity (Number of gender equity promotion programmes organized by the institution during the year)

Title of the programme	Period (from-to)	Participants	
		Female	Male
Nation-wide competition on Law related to women	30 <sup>th</sup> October 2018	61	33
Digital Literacy & Online Safety Programme	18 <sup>th</sup> December 2018	475	103
Self Defence for Girls	6 <sup>th</sup> March 2019	150	05
International Women’s Day	8 <sup>th</sup> March 2019	1300	50

7.1.2 Environmental Consciousness and Sustainability / Alternate Energy initiatives such as:

Percentage of the power requirement of the University met by the renewable energy sources:

Percentage of the power requirement of the University met by the renewable energy sources:

- ❖ Solar power panels have been erected at the roofs of NLBS - 1 & 2.
- ❖ Waste Management – Vermiculture
- ❖ Lab Waste Management

7.1.3 Differently-abled (Divyangjan) friendliness

Items facilities	Yes / No	No. of Beneficiaries
Physical facilities	Yes	CUTN students, teachers, and staff members
Provision for lift	Yes	
Ramp / Rails	Yes	
Braille Software/facilities	No	-
Rest Rooms	Yes	CUTN students, teachers, and staff members
Scribes for examination	Yes	02 students
Special skill development for differently-abled students	--	--
Any other similar facilities	--	--

#### 7.1.4 Inclusion and Situatedness

Enlist the most important initiatives taken to address locational advantages and disadvantages during the year.

Year	Number of initiatives to address locational advantages and disadvantages	Number of initiatives taken to engage with and contribute to the local community	Date and duration of the initiative	Name of the initiative	Number of participating students and staff/faculty
2018	03	03	15.08.2018	Free Medical Camp	20 / 5
			30.08.2018	Massive Tree Plantation Programme	50 / 5
			2.10.18 to 10.10.18	Quality of drinking water in adopted villages was tested in association with EPH, CUTN	
2019	02	02	24.01.19 to 24.03.19	Training Programm on Coir Products for Women from adopted Villages	1000 / 15
			06.04.19	Awareness programme on Central University Common Entrance Test (CUCET)	
			05.05.2018	Distributed free CAPS to women daily wage workers from adopted villages	

Unnat Bharat Abhiyan (UBA) is inspired by the vision of transformational change in rural development processes by leveraging knowledge institutions to help build the architecture of an Inclusive India. On the recommendation of the MHRD, the Central University of Tamil Nadu (hereafter, CUTN) is committed to participating in this national movement. In this regard, the university has adopted five villages namely Aadhamangalam in Nagakudi Gram Panchayat; Chakkaramangalam in Nagakudi Gram Panchayat; Karunakaranallur in Perumpukalur Gram Panchayat; Neelagudi in Perumpukalur Gram Panchayat and Thiyagarajapuram in Perumpukalur Gram Panchayat. All these villages are under the Koradacherry Block of Thiruvarur district.

### 7.1.5 Human Values and Professional Ethics

Code of conduct (handbooks) for various stakeholders:

<b>Title</b>	<b>Date of Publication</b>	<b>Follow up (maximum 100 words each)</b>
One-on-One discussion with an expert on Human ethics in Research	30.08.2018 (11.00 a.m. to 1.00 p.m.) at the Conference Hall of the School of Life Sciences, CUTN	50 faculty members and research scholars from various departments of this University
Students handbook 2018-2019	August 2018	Details about curricular and extracurricular activities. Students' discipline.

### 7.1.6 Activities conducted for promotion of universal Values and Ethics:

<b>Activity</b>	<b>Duration (from-to)</b>	<b>Number of participants</b>
Celebration of Independence Day	15 <sup>th</sup> August 2018	NCC Cadets, NCC officer, Faculties, Staffs, and Students
Free Public Medical Camp	15 <sup>th</sup> August 2018	Thiruvarur District
Sports Day	29 <sup>th</sup> August 2018	CUTN students, faculties & staffs
Celebration of Teacher Day	5 <sup>th</sup> September 2018	department level
Gandhi Bhajans	5 <sup>th</sup> October 2018	95
World Hindi Day	10 <sup>th</sup> January 2019	78
Celebration of Family Day	22 <sup>nd</sup> January 2019	All CUTN faculties & staffs
Sadguru Sri Tyagaraja Swami Aradhana	25 <sup>th</sup> January 2019	53
Celebration of Republic Day	26 <sup>th</sup> January 2019	NCC Cadets, NCC officer, Faculties, Staffs, and Students
Samathuva Pongal 2019	28 <sup>th</sup> January 2019	950
National Science Day	28 <sup>th</sup> February 2019	30
International Women's Day	8 <sup>th</sup> March 2019	895
World Health Day	8 <sup>th</sup> April 2019	30
Earth Day	22 <sup>nd</sup> April 2019	30
International Yoga Day	21 <sup>st</sup> June 2019	300



7.1.7 Initiatives are taken by the institution to make the campus eco-friendly (at least five)

- ❖ Recycling and reuse of papers are encouraged.
- ❖ Most official communication is done through email to minimize paper wastage
- ❖ Usage of plastic disposable cups and plates are prohibited in the campus
- ❖ Various departments have conducted "Swachh Bharath Abhiyan" Quiz programmes to create awareness among students.
- ❖ Use of cloth banner instead of flex (plastic) materials
- ❖ The waste Management mechanism is put in place.
- ❖ Garbage boxes are fixed at various points to promote a clean and green campus.
- ❖ Rain harvesting system initiated to save water.
- ❖ The judicious use of electricity and Air Conditioners (AC) are encouraged.
- ❖ Solar street lights are also in use.
- ❖ Plantation of Saplings

## 7.2 Best Practices

Describe at least two institutional best practices

- ❖ Ranga Pravesam programme is organized to encourage young talented students from the Music department a chance for their first stage performance.
- ❖ Relief work: CUTN students and faculties actively volunteered during Kerala floods and Gaja cyclone.
- ❖ All payments are made through PFMS.
- ❖ Monthly departmental newsletters
- ❖ Morning assembly is conducted every week to inculcate civic values and capacity building
- ❖ Co-Scholastic activities for students' recreation and skill enhancement.
- ❖ The various departments have conducted an "employability skills workshop" where training to develop the skills of the students was imparted.
- ❖ Provided hands-on experience in epigraphy, survey methods and visual documentation of historical places.

Upload details of two best practices successfully implemented by the institution as per NAAC format in your institution website, **provide the link**

Ranga Pravesham: <https://cutn.ac.in/gallery/Ranga-Pravesham-2018/>

Fit India Movement: [https://cutn.ac.in/gallery/Fit\\_India\\_Movement/](https://cutn.ac.in/gallery/Fit_India_Movement/)

Gaja Cyclone: <https://www.flickr.com/photos/149658665@N04/albums/72157704961060564>  
<https://www.flickr.com/photos/149658665@N04/albums/72157704560172565>

Digital Sakthi: <https://www.flickr.com/photos/149658665@N04/albums/72157676818990618>

### 7.3 Institutional Distinctiveness

Provide the details of the performance of the institution in one area distinctive to its vision, priority, and thrust. Provide the web link of the institution is not more than 500 words. (Weblink: <https://cutn.ac.in/happiness-centre/>)

#### ❖ Centre for Happiness:

Centre for Happiness (CFH) works towards the wellbeing of every member of CUTN. The centre brings in value additions like work-life balance, managing stress, positive approach, effective management of personal and professional life, enhancing personal development, strengthening team building, and minimizing/overcoming workplace tension while adding fun, joy, and happiness. The centre for happiness mentors to promote sensible humour and happiness. The centre is a gateway to the entire CUTN community to arise, awaken and enhance their well-being for themselves in particular and for the society at large. The CFH mission is to promote self-management and development of the teaching, non-teaching, administrative staff, students and research scholars of CUTN. Activities of the Centre include conducting interactive discussions, screening of motivational and comedy shows and cultural presentations. CUTNs get together and join in on discussions or get to witness presentations from people from other walks of life. Broad objectives of the centre include the following:

- 1) To promote individual and collective well-being in CUTN.
- 2) To create a stress-free, joyful and peaceful environment
- 3) To develop competency in every individual to manage self and fellow human beings
- 4) To accept and enjoy cultural differences
- 5) To strengthen inter-personal skills and thereby create a positive work environment.

### 8 Future Plans of action for the next academic year (500 words)

- ✓ To encourage the faculty members to publish research articles in indexed / UGC refereed / high-Impact factor journals.
- ✓ To encourage faculty members to obtain national and international funding projects.
- ✓ To organize seminars, symposiums and conferences in all the disciplines at National and International levels.
- ✓ Exploration of opportunities for collaborative research with leading institutions/organizations/industries.
- ✓ To encourage the faculty for consultancy projects in order to improve the Corpus fund.
- ✓ To strengthen the e-governance facilities.
- ✓ Proposal to enhance the number of Smart classrooms in the departments
- ✓ Filling up of all vacancies in Teaching and Non-teaching positions.
- ✓ Campus beautification and creation of an eco-friendly atmosphere.

**Name: Prof. Sulochana Shekhar**

**Name: Prof. A. P. Dash**

**-sd-**

**Signature of the Coordinator**

**-sd-**

**Signature of the Chairperson**

**Q.No. 3.4.5 – Annexure I**

3.4.5 Bibliometrics of the publication during the last Academic year based on average citation index in Scopus / Web of Science or PubMed / Indian Citation Index.

<b>Title of the paper</b>	<b>Name of the author</b>	<b>Title of the Journal</b>	<b>Year of publication</b>	<b>Citation Index</b>	<b>Institutional affiliation as mentioned in the publication</b>	<b>Number of citations excluding self-citations</b>
Back propagation neural network based big data analytics for a stock market challenge	Ramesh V.P.	Communications in Statistics - Theory and Methods	2019		School of Mathematics & Computer Sciences, Central University of Tamil Nadu, Thiruvapur, India	
Sugar-benzohydrazide based phase selective gelators for marine oil spill recovery and removal of dye from polluted water	Mohan Das T.	Carbohydrate Research	2019		Department of Chemistry, School of Basic and Applied Sciences, Central University of Tamil Nadu (CUTN), Thiruvapur 610 005, India	
Magnetoelectric coupling in strained strontium titanate and Metglas based magnetoelectric trilayer	Saravanan V.	Journal of Alloys and Compounds	2019		Department of Physics, Central University of Tamil Nadu, Thiruvapur, Tamilnadu 610004, India;	
Recent trends of saliva omics biomarkers for the diagnosis and treatment of oral cancer	Chattopadhyay I., Panda M.	Journal of Oral Biosciences	2019		Department of Life Sciences, Central University of Tamil Nadu, Thiruvapur, 610005, India	
Zinc substituted MgH <sub>2</sub> - a potential material for hydrogen storage applications	Ravindran P.	International Journal of Hydrogen Energy	2019		Department of Physics, Central University of Tamil Nadu, Thiruvapur, Tamil Nadu 610101, India	

A study on radio-loud interacting /non-interacting CMEs-associated SEPs and solar flares	Prakash O.,	Advances in Space Research	2019		Department of Physics, Central University of Tamilnadu, Thiruvarur, Tamil Nadu 610 005, India
Disaster, development and livelihood with special reference to floods in India	Raja Meenakshi J., Subudhi C.	Disaster Advances	2019		Department of Social Work, Central University of Tamil Nadu, India
A novel InTiO thin film by thermal evaporation technique for high mobility/conductivity with tunable visible emissions	Sugumaran S.,	Optik	2019		Department of Physics, Central University of Tamil Nadu, Neelakudi, Thiruvarur, Tamilnadu 610 005, India
Room temperature magnetoelectric properties of lead-free alkaline niobate based particulate composites	Saravanan K.V.,	Ceramics International	2019	1	Dept.of Physics, Central University of Tamil Nadu, Thiruvaroor, India
Utilization of the internal electric field in semiconductor photocatalysis: A short review	Venugopal G.,	Journal of Industrial and Engineering Chemistry	2019	2	Department of Materials Sciences, School of Technology, Central university of Tamil Nadu, Thiruvarur, Tamil Nadu 610 005, India;
Transcriptional and metabolic changes in the desiccation tolerant plant Craterostigma plantagineum during recurrent exposures to dehydration	Challabathula D.	Planta	2019		Department of Life Sciences, School of Basic and Applied Sciences, Central University of Tamil Nadu, Thiruvarur, India;
Novel Porous Polycatenated Iodo-Cadmium Coordination Polymer for Iodine Sorption and Electrical Conductivity Measurement	., Bhunia M.K.,	Crystal Growth and Design	2019		Department of Chemistry, Central University of Tamil Nadu, Thiruvarur, 610005, India;
Attainability of Maximum Work and the Reversible Efficiency of Minimally Nonlinear Irreversible Heat Engines	Ponmurugan M.	Journal of Non-Equilibrium Thermody	2019		Department of Physics, School of Basic and Applied Sciences, Central University of Tamilnadu, Thiruvarur, Tamilnadu 610 005, India

		namics			
Composition-dependent xBa(Zr <sub>0.2</sub> Ti <sub>0.8</sub> )O <sub>3</sub> -(1-x)(Ba <sub>0.7</sub> Ca <sub>0.3</sub> )TiO <sub>3</sub> bulk ceramics for high energy storage applications	Sekhar K.C.,	Ceramics International	2019	1	Department of Physics, School of Basic and Applied Sciences, Central University of Tamil Nadu, Thiruvarur, 610005, India; C
Substrate temperature induced effect on microstructure, optical and photocatalytic activity of ultrasonic spray pyrolysis deposited MoO <sub>3</sub> thin films	Alex K.V., Jayakrishnan A.R., Ajeesh Kumar S., Ibrahim A.S., Kamakshi K., Silva J.P.B., Sekhar K.C., Gomes M.J.M.	Materials Research Express	2019		Department of Physics, School of Basic and Applied Sciences, Central University of Tamil Nadu, Thiruvarur, 610 005, India;
Structural, optical and photocatalytic properties of mixed phase MoO <sub>3</sub> thin film deposited by spray technique	Alex K.V., Govind A., Ibrahim A.S., Sekhar K.C.	AIP Conference Proceedings	2019		Department of Physics, School of Basic and Applied Sciences, Central University of Tamil Nadu, Thiruvarur, Tamil Nadu, 610005, India;
Fluorescence control through vacuum induced coherences	Crispin H.B., Arun R.	Journal of Physics B: Atomic, Molecular and Optical Physics	2019		Department of Physics, School of Basic and Applied Sciences, Central University of Tamilnadu, Thiruvarur, Tamilnadu, 610005, India
A Note on Gauss's Theorem on Primitive Roots	Ramesh V.P., Thangadurai R., Thatchayini R.	American Mathematical Monthly	2019		Department of Mathematics, Central University of Tamilnadu, Thiruvarur, India;
Recent updates on mouse models for human immunodeficiency, influenza, and dengue viral infections	Krishnakumar V., Durairajan S.S.K., Alagarasu K., Li M., Dash A.P.	Viruses	2019		Department of Microbiology, School of Life Sciences, Central University of Tamilnadu, Tiruvarur, 610 005, India; Dengue/Chikungunya Group, ICMR-National Institute of Virology, Pune, 411001, India; Neuroscience Research

					Laboratory, Mr. & Mrs. Ko Chi-Ming Centre for Parkinson's Disease Research, School of Chinese Medicine, Hong Kong Baptist University, Kowloon Tong, Hong Kong; Central University of Tamilnadu, Tiruvarur	
A graph theoretic approach for modelling tiger corridor network in Central India-Eastern Ghats landscape complex, India	Shanu S., Idiculla J., Qureshi Q., Jhala Y., Aggarwal A., Dimri P., Bhattacharya S.	Ecological Informatics	2019	1	Department of Mathematics, School of Mathematics and Computer science, Central University of Tamil Nadu, Thiruvarur, Tamil Nadu 610101, India;	
Characterization of VWF gene conversions causing von Willebrand disease	Ahmad F., Kannan M., Obser T., Budde U., Schneppenheim S., Saxena R., Schneppenheim R.	British Journal of Haematology	2019		Department of Life Sciences, School of Basic and Applied Sciences, Central University of Tamilnadu, Thiruvarur, India; Department of Pediatric Haematology and Oncology, University Medical Centre, Eppendorf, Hamburg, Germany; Medilys Laboratory Coagulation, Asklepios Hospital Altona, Hamburg, Germany; Department of Haematology, All India Institute of Medical Sciences, New Delhi, India	
Synthesis of Aroylbenzoate-Based Push-Pull Molecules for OFET Applications	Devibala P., Dheepika R., Vadivelu P., Nagarajan S.	Chemistry Select	2019		Department of Chemistry, Central University of Tamil Nadu Thiruvarur-610 005, India	

Hyper heuristic mapReduce workflow scheduling in cloud	Panneerselvam A., Subbaraman B.	Proceedings of the International Conference on I-SMAC (IoT in Social, Mobile, Analytics and Cloud), I-SMAC 2018	2019		Dept. of Computer Science, Pondicherry University, Karaikal Campus, Puducherry, India; Central University of Tamilnadu, Thiruvavur, Tamilnadu, India
Large Negative Thermal Expansion Induced by Synergistic Effects of Ferroelectrostriction and Spin Crossover in PbTiO <sub>3</sub> -Based Perovskites	Pan Z., Chen J., Yu R., Patra L., Ravindran P., Sanson A., Milazzo R., Carnera A., Hu L., Wang L., Yamamoto H., Ren Y., Huang Q., Sakai Y., Nishikubo T., Ogata T., Fan X., Li Y., Li G., Hojo H., Azuma M., Xing X.	Chemistry of Materials	2019	1	Department of Physics, Central University of Tamil Nadu, Thiruvavur, Tamil Nadu, 610101, India;
Pd-Co alloy as an efficient recyclable catalyst for the reduction of hazardous 4-nitrophenol	Revathy T.A., Sivaranjani T., Boopathi A.A., Sampath S., Narayanan V., Stephen A.	Research on Chemical Intermediates	2019	1	Department of Materials Sciences, School of Technology, Central University of Tamil Nadu, Thiruvavur, India;
High-Performance Ferroelectric-Dielectric Multilayered Thin Films for Energy Storage Capacitors	Silva J.P.B., Silva J.M.B., Oliveira M.J.S., Weingärtner T., Sekhar K.C., Pereira M., Gomes M.J.M.	Advanced Functional Materials	2019	2	Centro de Física das Universidades do Minho e do Porto (CF-UM-UP), Campus de Gualtar, Braga, 4710-057, Portugal; IFIMUP and IN-Institute of Nanoscience and Nanotechnology, Departamento de Física e Astronomia, Faculdade de Ciências da, Universidade do Porto, Rua do Campo

					Alegre 687, Porto, 4169-007, Portugal; Institute for Applied Materials–Applied Materials Physics (IAM–AWP), Karlsruhe Institute of Technology, Kaiserstraße 12, Karlsruhe, 76131, Germany; Department of Physics, School of Basic and Applied Sciences, Central University of Tamil Nadu, Thiruvavur, Tamil Nadu 610 101, India
On symmetric linear games	Gokulraj S., Chandrashekar A.	Linear Algebra and Its Applications	2019		Department of Mathematics, Central University of Tamil Nadu, Thiruvavur, Tamil Nadu 610 005, India
Assessment of coastal aquaculture for India from Sentinel-1 SAR time series	Prasad K.A., Ottinger M., Wei C., Leinenkugel P.	Remote Sensing	2019		Department of Geography, School of Earth Sciences, Central University of Tamil Nadu, Thiruvavur, Tamil Nadu, 610005, India; German Remote Sensing Data Center, Earth Observation Center, German Aerospace Center, Wessling, 82234, Germany; Department of Remote Sensing, Institute of Geography and Geology, University of Wuerzburg, Wuerzburg, 97074, Germany
Element- and Site-Specific Many-Body Interactions in Few-Layer MoS <sub>2</sub> During X-Ray Absorption	Kamada G., Venugopal G., Kotsugi M., Ohkochi T., Suemitsu M., Fukidome H.	Physical Status Solids (A)	2019		Research Institute of Electrical Communication, Tohoku University, Katahira,



Processes		Applications and Materials Sciences			Sendai 980-8577, Japan; Department of Materials Sciences, School of Technology, Central University of Tamil Nadu, Thiruvarur-610 005 Tamil Nadu, India; Japan Synchrotron Radiation Research Institute, 1-1-1, Kouto, Sayo, Hyogo 679-5198, Japan	
Metalloporphyrin nanoparticles: Coordinating diverse theranostic functions	Shao S., Rajendiran V., Lovell J.F.	Coordination Chemistry Reviews	2019	10	Department of Biomedical Engineering, University at Buffalo, State University of New York, Buffalo, NY 14260, United States; Department of Chemistry, School of Basic and Applied Sciences, Central University of Tamil Nadu, Thiruvarur, 610 005, India	
Global analysis of Repositories in 'Library and Information Science' in OpenDOAR	Dhanavandan S.	Library Philosophy and Practice	2019		Central University of Tamil Nadu, Thiruvarur, TN, 610 005, India	
Design, synthesis, characterization and gelation studies of sugar-oxadiazole based N-glycosylamines	Soundarajan K., Das T.M.	Trends in Carbohydrate Research	2019		Department of Chemistry, School of Basic and Applied Sciences, Central University of Tamil Nadu, Neelakudi campus, Thiruvarur, 610 005, India	
Higher Order Uniformly Convergent Numerical Algorithm for Time-Dependent Singularly Perturbed Differential-Difference Equations	Ramesh V.P., Priyanga B.	Differential Equations and Dynamical Systems	2019		Department of Mathematics, Central University of Tamil Nadu, Thiruvarur, India; Department of Mathematics, Mathematics	

					and Analytics Center of Excellence (MACoE), Central University of Tamil Nadu, Thiruvavur, India	
The Generalized S-Mesh Based Hybrid Algorithm for Singularly Perturbed Problems With Interior Layer	Ramesh V.P., Prithvi M.	Differential Equations and Dynamical Systems	2019		Mathematics and Analytics Center of Excellence (MACoE), Department of Mathematics, Central University of Tamil Nadu, Thiruvavur, India; Department of Mathematics, Central University of Tamil Nadu, Thiruvavur, India	
Staging the human in George Ryga's the ecstasy of rita Joe	Bhattacharya S.	Rupkatha Journal on Interdisciplinary Studies in Humanities	2019		Dept. of English Studies, Central University of Tamil Nadu, India	
Ag-doped ZnO nanorods embedded reduced graphene oxide nanocomposite for photo-electrochemical applications	Khurshid F., Jeyavelan M., Hudson M.S.L., Nagarajan S.	Royal Society Open Science	2019	1	Department of Chemistry, United States; Department of Physics, Central University of Tamil Nadu, Thiruvavur, India	
Revitalisation of Ayurveda in Colonial Tamil region and Contributions of Pandit Srinivasa Narayana Iyengar - A Historical Perspective	Kanagarathinam D.V.	Journal of Ayurveda and Integrative Medicine	2019		Department of History, Central University of Tamil Nadu, Thiruvavur, Tamil Nadu, India	
Uranyl-Bound Tetra-Dentate Non-Innocent Ligands: Prediction of Structure and Redox Behaviour Using Density Functional Theory	Arumugam K., Burton N.A.	ChemPhys Chem	2019		School of Chemistry, The University of Manchester, Oxford Road, Manchester, United Kingdom; Current	

					address: National Post Doctoral Fellow (NPDF) Simulation Center for Atomic and Nanoscale Materials (SCANMAT), Central University of Tamil Nadu, Thiruvapur, Tamil Nadu 610101, India
Barriers in information use - A Study among Ophthalmologists in India	Govindarajan R., Dhanavandan S.	Library Philosophy and Practice	2019		Aravind Eye Hospital and Postgraduate Institute of Ophthalmology, Madurai, Tamil Nadu, India; Central Library, Central University of Tamil Nadu, Thiruvapur, Tamil Nadu, India
Information evaluation behavior among Ophthalmologists - A study in India	Govindarajan R., Dhanavandan S.	Library Philosophy and Practice	2019		Aravind Eye Hospital and Postgraduate Institute of Ophthalmology, Madurai, Tamil Nadu, India; Central Library, Central University of Tamil Nadu, Thiruvapur, Tamil Nadu, India
Open access publishing model: Preferences, opportunities, and challenges - an opinion survey among teaching staff in higher education Institutions In Tamilnadu	Govindarajan R., Dhanavandan S.	Library Philosophy and Practice	2019		Aravind Eye Hospital and Postgraduate Institute of Ophthalmology, Madurai, Tamil Nadu, India; Central Library, Central University of Tamil Nadu, Thiruvapur, Tamil Nadu, India
Globalization and Its Impact on Business Education in Emerging Economies: A Case of India	Bhatia S.M., Panneer S.	South Asian Journal of Human Resources Management	2019		Gitarattan International Business School, New Delhi, India; Department of Social Work, School of Social Sciences and Humanities, Central University of Tamil Nadu, Thiruvapur, Tamil Nadu, India

Are we prepared to save the sanctity of science from predatory journals?	Ramachandran V., Shankar E.	Indian Journal of Community Medicine	2019	Preclinical Department, Faculty of Medicine, Royal College of Medicine Perak, Universiti Kuala Lumpur, Ipoh, 30450, Malaysia; Department of Life Sciences, Division of Infection Biology, Central University of Tamil Nadu, Thiruvavarur, Tamil Nadu, India
Amphoteric behavior of hydrogen (H+1 and H-1) in complex hydrides from van der Waals interaction-including ab initio calculations	Kiruthika S., Fjellvåg H., Ravindran P.	Journal of Materials Chemistry A	2019	Department of Physics, School of Basics and Applied Science, Central University of Tamil Nadu, Thiruvavarur, India; Simulation Center for Atomic and Nanoscale MATerials (SCANMAT), Central University of Tamil Nadu, Thiruvavarur, India; Center for Materials Sciences and Nanotechnology, Department of Chemistry, University of Oslo, Box 1033, Blindern, N0315, Norway
Spatio-temporal analysis of road traffic accidents in Indian large cities	Mahata D., Narzary P.K., Govil D.	Clinical Epidemiology and Global Health	2019	School of Earth Sciences, Department of Geography, Neelakudi Campus, Central University of Tamil Nadu, Kangalancherry, Thiruvavarur, Tamil Nadu 610005, India; International Institute for Population Sciences (IIPS), Govandi Station Road,

					Deonar, Mumbai, 4000 88, India
Influence of hydrogen and halogen adsorption on the photocatalytic water splitting activity of C <sub>2</sub> N monolayer: A first-principles study	Ashwin Kishore M.R., Sjøstad A.O., Ravindran P.	Carbon	2019	2	Department of Physics, Central University of Tamil Nadu, Thiruvavarur, Tamil Nadu 610101, India; Simulation Center for Atomic and Nanoscale MATerials, Central University of Tamil Nadu, Thiruvavarur, Tamil Nadu 610101, India; Center for Materials Sciences and Nanotechnology, Department of Chemistry, University of Oslo, Box 1033 Blindern, Oslo, N-0315, Norway
First principles prediction of the ground state crystal structures of antiperovskite compounds A <sub>3</sub> PN (A= Be, Mg, Ca, Sr, Ba and Zn)	Sreedevi P.D., Ravindran P., Vidya R.	Materials Today: Proceedings	2019		Department of Physics, Central University of Tamil Nadu, Thiruvavarur, Tamil Nadu, 610101, India; Simulation Center for Atomic and Nanoscale MATerials (SCANMAT), Central University of Tamil Nadu, Thiruvavarur, Tamil Nadu, 610101, India; Department of Materials Sciences, Central University of Tamil Nadu, Thiruvavarur, Tamil Nadu, 610101, India; Center of Material Science and Nanotechnology, Department of Chemistry, University of Oslo, Box 1033, Blindern, Oslo, N-

					0315, Norway; Department of Medical Physics, Anna University, Chennai, Tamil Nadu, 600025, India
Platelet activation markers in evaluation of thrombotic risk factors in various clinical settings	Kannan M., Ahmad F., Saxena R.	Blood Reviews	2019		Division of Blood and Vascular Biology, Department of Life Sciences, School of Life Sciences, Central University of Tamil Nadu, Thiruvarur, India; Sharjah Institute for Medical Research and College of Medicine, University of Sharjah, Sharjah, United Arab Emirates; Department of Hematology, All India Institute of Medical Sciences, New Delhi, India
GIS-based spatial multi-criteria approach for characterization and prioritization of micro-watersheds: a case study of semi-arid watershed, South India	Balasubramani K., Gomathi M., Bhaskaran G., Kumaraswamy K.	Applied Geomatics	2019		Department of Geography, School of Earth Sciences, Central University of Tamil Nadu, Thiruvarur, 610 005, India; Department of Geography, Bharathidasan University, Tiruchirappalli, India; Department of Geography, University of Madras, Chennai, India
The basis for reevaluating the reactivity of pyrite surfaces: Spin states and crystal field d-orbital splitting energies of bulk, terrace, edge, and corner Fe(II) ions	Arumugam K., Renock D., Becker U.	Physical Chemistry Chemical Physics	2019		Department of Earth and Environmental Sciences, University of Michigan, 1100 North University Avenue 2534 NUB, Ann Arbor, MI 48109-1005, United States; Department of Earth Sciences, Dartmouth

					College, Hanover, NH 03755, United States; National Post Doctoral Fellow, Simulation Center for Atomic and Nanoscale MATerials (SCANMAT), Central University of Tamil Nadu, Thiruvavur, Tamil Nadu, 610101, India	
Isothermal and non-isothermal cold crystallization of tetrabenzofluorene (TBF) molecules	Boopathi A.A., Sampath S., Narasimhaswamy T.	New Journal of Chemistry	2019		Polymer Science and Technology Division, Council of Scientific and Industrial Research (CSIR), Central Leather Research Institute (CLRI), Adyar, Chennai, 600020, India; Academy of Scientific and Innovative Research (AcSIR), Ghaziabad, 201002, India; Department of Materials Sciences, School of Technology, Central University of Tamil Nadu, Thiruvavur, 610101, India	
Polymorphisms in the host CYP2C19 gene and antibiotic-resistance attributes of Helicobacter pylori isolates influence the outcome of triple therapy	Ram R.M., Teh X., Rajakumar T., Goh K.L., Leow A.H.R., Poh B.H., Mariappan V., Shankar E.M., Loke M.F., Vadivelu J.	Journal of Antimicrobial Chemotherapy	2019	1	Department of Medical Microbiology, Faculty of Medicine, University of Malaya, Kuala Lumpur, Malaysia; Department of Molecular Biology and Genetics, Faculty of Science, University of South Bohemia, Branis Ovska 31, Crossed D Sign EskCrossed D Sign Budejovice (Budweis), Malaysia; Department of Medicine,	

					Faculty of Medicine, University of Malaya, Kuala Lumpur, Malaysia; BP Diagnostic Centre SDN Bhd, Ipoh, Perak, Malaysia; Division of Infection Biology and Medical Microbiology, Department of Life Sciences, Central University of Tamil Nadu (CUTN), Thiruvavur, India; School of Life Sciences and Chemical Technology, Ngee Ann Polytechnic, Singapore, Singapore	
CPAF, HSP60 and MOMP antigens elicit pro-inflammatory cytokines production in the peripheral blood mononuclear cells from genital Chlamydia trachomatis-infected patients	Cheong H.C., Lee C.Y.Q., Cheok Y.Y., Shankar E.M., Sabet N.S., Tan G.M.Y., Movahed E., Yeow T.C., Sulaiman S., Wong W.F., Looi C.Y., Gupta R., Hassan J., Arulanandam B., AbuBakar S.	Immunobiology	2019	1	Department of Medical Microbiology, Faculty of Medicine, University of Malaya, Kuala Lumpur, 50603, Malaysia; Division of Infection Biology, Department of Life Sciences, School of Basic & Applied Sciences, Central University of Tamil Nadu, Thiruvavur, 610005, India; Faculty of Medicine, SEGi University, Kota Damansara, Selangor 47810, Malaysia; Department of Obstetrics and Gynecology, Faculty of medicine, University of Malaya, Kuala Lumpur, 50603, Malaysia; School of Bioscience, Taylor's University, Subang Jaya, Selangor 47500, Malaysia;	



					Center of Excellence in Infection Genomics, South Texas Center for Emerging Infectious Diseases, University of Texas at San Antonio, Texas, 78249, United States; Tropical Infectious Disease Research and Education Center, University of Malaya, Kuala Lumpur, 50603, Malaysia
Gd <sub>2</sub> Te <sub>3</sub> : An antiferromagnetic semimetal	Muthuselvam I.P., Nehru R., Babu K.R., Saranya K., Kaul S.N., Chen S.-M., Chen W.-T., Liu Y., Guo G.-Y., Xiu F., Sankar R.	Journal of Physics Condensed Matter	2019		Department of Physics, School of Basic and Applied Sciences, Central University of Tamil Nadu, Thiruvavur, Tamil Nadu, 610005, India; Center for Condensed Matter Sciences, National Taiwan University, Taipei, 10617, Taiwan; Institute of Physics, Academia Sinica, Taipei, 10617, Taiwan; Department of Chemical Engineering and Biotechnology, National Taipei University of Technology, Taipei, 10608, Taiwan; Department of Physics, National Taiwan University, Taipei, 10617, Taiwan; Physics Division, National Center for Theoretical Sciences, Hsinchu, 30013, Taiwan; School of Physics, University of Hyderabad, Central University PO, Hyderabad,

					Telangana, 500046, India; State Key Laboratory of Surface Physics, Department of Physics, Fudan University, Shanghai, 200433, China	
Tectono-morphological evolution of the Cauvery, Vaigai, and Thamirabarani River basins: Implications on timing, stratigraphic markers, relative roles of intrinsic and extrinsic factors, and transience of Southern Indian landscape	Ramkumar M., Santosh M., Rahaman S.M.A., Balasundareswaran A., Balasubramani K., Mathew M.J., Sautter B., Siddiqui N., Usha K.P., Sreerhishya K., Prithiviraj G., Nagarajan R., Thirukumaran V., Menier D., Kumaraswamy K.	Geological Journal	2019		Department of Geology, Periyar University, Salem, India; School of Earth Sciences and Resources, China University of Geosciences Beijing, Beijing, China; Department of Earth Sciences, University of Adelaide, Adelaide, SA, Australia; Department of Geography, Bharathidasan University, Tiruchirapalli, India; Department of Geography, Central University of Tamil Nadu, Thiruvarur, India; School of Marine and Environmental Science, Universiti Malaysia Terengganu, Kuala Nerus Terengganu, Malaysia; South-East Asia Carbonate Research Laboratory, Universiti Teknologi Petronas, Tronoh, Malaysia; Department of Geosciences, Universiti Teknologi Petronas, Tronoh, Malaysia; Department of Applied Geology, Curtin University, Miri, Malaysia; Department of Geology, Government	

					Arts College (Autonomous), Salem, India; Laboratoire Géosciences Marines et Géomorphologie du Littoral, Université de Bretagne Sud, France	
Discovery of buried historical structures in the Kaveri–Kollidam interfluvium, southern India	Ramkumar M., Kumaraswamy K., Balasubramani K., Abdul Rahaman S., Jegankumar R., Kumara Ganesh U., Manikandan E., Balasundareshwaran A., Prithiviraj G., Ayyanthurai R., Santosh M., Nagarajan R., Siddiqui N.A., Mathew M.J., Menier D., Ramachandran C., Sathyaseelan M., Sivakumar P.	Archaeological Prospection	2019	1	Department of Geology, Periyar University, Salem, India; Department of Geography, Bharathidasan University, Tiruchirappalli, India; Department of Geography, Central University of Tamil Nadu, Thiruvavur, India; Centre for Remote Sensing, Bharathidasan University, Tiruchirappalli, India; School of Earth Sciences and Resources, China University of Geosciences Beijing, Beijing, China; Department of Earth Sciences, University of Adelaide, Adelaide, SA, Australia; Department of Applied Geology, Curtin University, Miri, Sarawak, Malaysia; Department of Geosciences, Universiti Teknologi Petronas, Tronoh, Malaysia; Institute of Oceanography and Environment, Universiti Malaysia Terengganu, Kuala Nerus, Terengganu, Malaysia; South-east Asia	

					Carbonate Research Laboratory, Universiti Teknologi Petronas, Tronoh, Malaysia; Université Européenne de Bretagne, GMGL DO, UMR CNRS, Vannes cedex, 6538, France
Inter-sectoral Growth Linkages and Their Implications for Agriculture: Evidence from Indian States	Varkey R.S., Panda P.K.	Millennial Asia	2018		Central University of Tamil Nadu, Thiruvarur, Tamil Nadu, India; Department of Economics, Central University of Tamil Nadu, Thiruvarur, Tamil Nadu, India
An a Priori Harmonic Mesh for Singularly Perturbed Boundary Value Problems	Ramesh V.P., Kadalbajoo M.K., Priyanga B., Prithvi M.	International Journal of Applied and Computational Mathematics	2018		Mathematics and Analytics Center of Excellence (MACoE), Department of Mathematics, Central University of Tamil Nadu, Thiruvarur, India; Department of Mathematics, Indian Institute of Technology Kanpur, Kanpur, India; Department of Mathematics, Central University of Tamil Nadu, Thiruvarur, India
Kuttanad after the flood	Krishnanunni R., Menon V.A.	Economic and Political Weekly	2018		Department of Political Science and Public Administration, University of Madras, Chennai, India; Department of Media and Communication, Central University of Tamil Nadu, Neelakudi, India

Self-assembly of sugar based glyco-lipids: Gelation studies of partially protected D-glucose derivatives	Soundarajan K., Rajasekar M., Das T.M.	Materials Sciences and Engineering C	2018	1	Department of Chemistry, School of Basic and Applied Sciences, Central University of Tamil Nadu (CUTN), Thiruvavur, 610 005, India; Department of Organic Chemistry, University of Madras, Guindy Campus, Chennai, 600025, India
Influence of L-threonine on the growth, structural, optical, mechanical and nonlinear optical properties of tartaric acid single crystal	Thilakavathi G., Kumar R.A., Gunasekaran V.	Materials Sciences-Poland	2018		G.R.D Center for Materials Research, PSG College of Technology, Coimbatore, 641004, India; Department of Physics, Dr. N.G.P. Institute of Technology, Coimbatore, 641048, India; Department of Physics, PSG College of Technology, Coimbatore, 641004, India; Department of Materials Sciences, Central University of Tamil Nadu, Thiruvavur, 610 005, India
Novel mixed cubic-rutile structured In <sub>2</sub> O <sub>3</sub> -TiO <sub>2</sub> composite nanoparticles (InTiO CNPs): Structure, morphology, photoluminescence and photocatalytic activity	Sugumaran S., Bellan C.S., Devaraj N.	Optik	2018	2	Nanotechnology Research Lab, Department of Physics, Kongunadu Arts and Science College, G-N Mills, Coimbatore, Tamil Nadu 641 029, India; Department of Physics, Bharathiar University, Coimbatore, Tamilnadu 641046, India; Department of Physics, Central University of Tamil Nadu (CUTN), Thiruvavur, 610 005, India

<p>Anisotropic magnetotransport and extremely large magnetoresistance in NbAs<sub>2</sub> single crystals</p>	<p>Peramaiyan G., Sankar R., Muthuselvam I.P., Lee W.-L.</p>	<p>Scientific Reports</p>	<p>2018</p>	<p>1</p>	<p>Institute of Physics, Academia Sinica, Taipei, 10617, Taiwan; Center for Condensed Matter Sciences, National Taiwan University, Taipei, 10617, Taiwan; Department of Materials Sciences, Central University of Tamil Nadu, Neelakudi, Thiruvavur, Tamil Nadu, 610005, India</p>	
<p>Erratum: Global, regional, and national age-sex-specific mortality for 282 causes of death in 195 countries and territories, 1980–2017: a systematic analysis for the Global Burden of Disease Study 2017 (The Lancet (2018) 392(10159) (1736–1788)(S0140673618322037)(10.1016/S0140-6736(18)32203-7))</p>	<p>GBD 2017 Causes of Death Collaborators, Roth G.A., Abate D., Abate K.H., Abay S.M., Abbafati C., Abbasi N., Abbastabar H., Abd-Allah F., Abdela J., Abdelalim A., Abdollahpour I., Abdulkader R.S., Abebe H.T., Abebe M., Abebe Z., Abejie A.N., Abera S.F., Abil O.Z., Abraha H.N., Abrham A.R., Abu-Raddad L.J., Accrombessi M.M.K., Acharya D., Adamu A.A., Adebayo O.M., Adedoyin R.A., Adekanmbi V., Adetokunboh O.O., Adhena B.M., Adib M.G., Admasie A., Afshin A., Agarwal G., Agesa K.M., Agrawal A., Agrawal S., Ahmadi A., Ahmadi M., Ahmed M.B., Ahmed S., Aichour A.N., Aichour I., Aichour M.T.E., Akbari M.E., Akinyemi R.O., Akseer N., Al-Aly Z., Al-Eyadhy A., Al-Raddadi R.M., Alahdab F., Alam K., Alam T., Alebel A., Alene K.A., Alijanzadeh M., Alizadeh-Navaei R., Aljunid S.M., Alkerwi A., Alla F., Allebeck P., Alonso J., Altirkawi K., Alvis-Guzman N., Amare A.T., Aminde L.N., Amini E., Ammar W., Amoako Y.A., Anber N.H., Andrei C.L., Androudi S., Animut M.D., Anjomshoa M., Ansari H., Ansha M.G., Antonio C.A.T., Anwari P., Aremu O., Arnlov J., Arora A., Arora M., Artaman A., Aryal K.K., Asayesh H., Asfaw E.T., Ataro Z., Atique S., Atre S.R.,</p>	<p>The Lancet</p>	<p>2018</p>			

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	<p>A.K., Dargan P.I., Daryani A., Das S.K., Gupta R.D., Neves J.D., Dasa T.T., Dash A.P., Davis A.C., Davis Weaver N., Davitoiu D.V., Davletov K., De La Hoz F.P., De Neve J.-W., Degefa M.G., Degenhardt L., Degfie T.T., Deiparine S., Demoz G.T., Demtsu B.B., Denova-Gutierrez E., Deribe K., Dervenis N., Des Jarlais D.C., Dessie G.A., Dey S., Dharmaratne S.D., Dicker D., Dinberu M.T., Ding E.L., Dirac M.A., Djalalinia S., Dokova K., Doku D.T., Donnelly C.A., Dorsey E.R., Doshi P.P., Douwes-Schultz D., Doyle K.E., Driscoll T.R., Dubey M., Dubljanin E., Duken E.E., Duncan B.B., Duraes A.R., Ebrahimi H., Ebrahimpour S., Edessa D., Edvardsson D., Eggen A.E., El Bcheraoui C., El Sayed Zaki M., El-Khatib Z., Elkout H., Ellingsen C.L., Endres M., Endries A.Y., Er B., Erskine H.E., Eshrati B., Eskandarieh S., Esmaeili R., Esteghamati A., Fakhar M., Fakhim H., Faramarzi M., Fareed M., Farhadi F., Farinha C.S.E., Faro A., Farvid M.S., Farzadfar F., Farzaei M.H., Feigin V.L., Feigl A.B., Fentahun N., Fereshtehnejad S.-M., Fernandes E., Fernandes J.C., Ferrari A.J., Feyissa G.T., Filip I., Finegold S., Fischer F., Fitzmaurice C., Foigt N.A., Foreman K.J., Fornari C., Frank T.D., Fukumoto T., Fuller J.E., Fullman N., Furst T., Furtado J.M., Futran N.D., Gallus S., Garcia-Basteiro A.L., Garcia-Gordillo M.A., Gardner W.M., Gebre A.K., Gebrehiwot T.T., Gebremedhin A.T., Gebremichael B., Gebremichael T.G., Gelano T.F., Geleijnse J.M., Genova-Maleras R., Geramo Y.C.D., Gething P.W., Gezae K.E., Ghadami M.R., Ghadimi R., Ghasemi Falavarjani K., Ghasemi-Kasman M., Ghimire M., Gibney K.B., Gill P.S., Gill T.K., Gillum</p>					
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	<p>R.F., Ginawi I.A., Giroud M., Giussani G., Goenka S., Goldberg E.M., Goli S., Gomez-Dantes H., Gona P.N., Gopalani S.V., Gorman T.M., Goto A., Goulart A.C., Gnedovskaya E.V., Grada A., Grosso G., Gugnani H.C., Guimaraes A.L.S., Guo Y., Gupta P.C., Gupta R., Gupta R., Gupta T., Gutierrez R.A., Gyawali B., Haagsma J.A., Hafezi-Nejad N., Hagos T.B., Hailegiyorgis T.T., Hailu G.B., Haj-Mirzaian A., Haj-Mirzaian A., Hamadeh R.R., Hamidi S., Handal A.J., Hankey G.J., Harb H.L., Harikrishnan S., Haro J.M., Hasan M., Hassankhani H., Hassen H.Y., Havmoeller R., Hay R.J., Hay S.I., He Y., Hedayatizadeh-Omran A., Hegazy M.I., Heibati B., Heidari M., Hendrie D., Henok A., Henry N.J., Herteliu C., Heydarpour F., Heydarpour P., Heydarpour S., Hibstu D.T., Hoek H.W., Hole M.K., Homaie Rad E., Hoogar P., Hosgood H.D., Hosseini S.M., Hosseinzadeh M., Hostiuc M., Hostiuc S., Hotez P.J., Hoy D.G., Hsiao T., Hu G., Huang J.J., Hussein A., Hussen M.M., Hutfless S., Idrisov B., Ilesanmi O.S., Iqbal U., Irvani S.S.N., Irvine C.M.S., Islam N., Islam S.M.S., Islami F., Jacobsen K.H., Jahangiry L., Jahanmehr N., Jain S.K., Jakovljevic M., Jalu M.T., James S.L., Javanbakht M., Jayatilleke A.U., Jeemon P., Jenkins K.J., Jha R.P., Jha V., Johnson C.O., Johnson S.C., Jonas J.B., Joshi A., Jozwiak J.J., Jungari S.B., Jurisson M., Kabir Z., Kadel R., Kahsay A., Kalani R., Karami M., Karami Matin B., Karch A., Karema C., Karimi-Sari H., Kasaeian A., Kassa D.H., Kassa G.M., Kassa T.D., Kassebaum N.J., Katikireddi S.V., Kaul A., Kazemi Z., Kazemi Karyani A., Kazi D.S., Kefale A.T., Keiyoro P.N., Kemp G.R., Kengne A.P., Keren A.,</p>					
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	<p>Kesavachandran C.N., Khader Y.S., Khafaei B., Khafaie M.A., Khajavi A., Khalid N., Khalil I.A., Khan E.A., Khan M.S., Khan M.A., Khang Y.-H., Khater M.M., Khoja A.T., Khosravi A., Khosravi M.H., Khubchandani J., Kiadaliri A.A., Kibret G.D., Kidanemariam Z.T., Kiirithio D.N., Kim D., Kim Y.-E., Kim Y.J., Kimokoti R.W., Kinfu Y., Kisa A., Kissimova-Skarbek K., Kivimaki M., Knudsen A.K.S., Kocarnik J.M., Kochhar S., Kokubo Y., Kolola T., Kopec J.A., Koul P.A., Koyanagi A., Kravchenko M.A., Krishan K., Kuate Defo B., Kucuk Bicer B., Kumar G.A., Kumar M., Kumar P., Kutz M.J., Kuzin I., Kyu H.H., Lad D.P., Lad S.D., Lafranconi A., Lal D.K., Laloo R., Lallukka T., Lam J.O., Lami F.H., Lansingh V.C., Lansky S., Larson H.J., Latifi A., Lau K.M.-M., Lazarus J.V., Lebedev G., Lee P.H., Leigh J., Leili M., Leshargie C.T., Li S., Li Y., Liang J., Lim L.-L., Lim S.S., Limenih M.A., Linn S., Liu S., Liu Y., Lodha R., Lonsdale C., Lopez A.D., Lorkowski S., Lotufo P.A., Lozano R., Lunevicius R., Ma S., Macarayan E.R.K., Mackay M.T., MacLachlan J.H., Maddison E.R., Madotto F., Magdy Abd El Razeq H., Magdy Abd El Razeq M., Maghavani D.P., Majdan M., Majdzadeh R., Majeed A., Malekzadeh R., Malta D.C., Manda A.-L., Mandarano-Filho L.G., Manguerra H., Mansournia M.A., Mapoma C.C., Marami D., Maravilla J.C., Marcenes W., Marczak L., Marks A., Marks G.B., Martinez G., Martins-Melo F.R., Martopullo I., Marz W., Marzan M.B., Masci J.R., Massenburg B.B., Mathur M.R., Mathur P., Matzopoulos R., Maulik P.K., Mazidi M., McAlinden C., McGrath J.J., McKee M., McMahon B.J., Mehata S., Mehndiratta M.M., Mehrotra R., Mehta K.M.,</p>					
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	<p>Mehta V., Mekonnen T.C., Melese A., Melku M., Memiah P.T.N., Memish Z.A., Mendoza W., Mengistu D.T., Mengistu G., Mensah G.A., Mereta S.T., Meretoja A., Meretoja T.J., Mestrovic T., Mezgebe H.B., Miazgowski B., Miazgowski T., Millear A.I., Miller T.R., Miller-Petrie M.K., Mini G.K., Mirabi P., Mirarefin M., Mirica A., Mirrakhimov E.M., Misganaw A.T., Mitiku H., Moazen B., Mohammad K.A., Mohammadi M., Mohammadifard N., Mohammed M.A., Mohammed S., Mohan V., Mokdad A.H., Molokhia M., Monasta L., Moradi G., Moradi-Lakeh M., Moradinazar M., Moraga P., Morawska L., Velasquez I.M., Morgado-Da-Costa J., Morrison S.D., Moschos M.M., Mouodi S., Mousavi S.M., Muchie K.F., Mueller U.O., Mukhopadhyay S., Muller K., Mumford J.E., Musa J., Musa K.I., Mustafa G., Muthupandian S., Nachege J.B., Nagel G., Naheed A., Nahvijou A., Naik G., Nair S., Najafi F., Naldi L., Nam H.S., Nangia V., Nansseu J.R., Nascimento B.R., Natarajan G., Neamati N., Negoï I., Negoï R.I., Neupane S., Newton C.R.J., Ngalesoni F.N., Ngunjiri J.W., Nguyen A.Q., Nguyen G., Nguyen H.T., Nguyen H.T., Nguyen L.H., Nguyen M., Nguyen T.H., Nichols E., Ningrum D.N.A., Nirayo Y.L., Nixon M.R., Nolutshungu N., Nomura S., Norheim O.F., Noroozi M., Norrving B., Noubiap J.J., Nouri H.R., Shiadeh M.N., Nowroozi M.R., Nyasulu P.S., Odell C.M., Ofori-Asenso R., Ogbo F.A., Oh I.H., Oladimeji O., Olagunju A.T., Olivares P.R., Olsen H.E., Olusanya B.O., Olusanya J.O., Ong K.L., Ong S.K.S., Oren E., Orpana H.M., Ortiz A., Ortiz J.R., Otstavnov S.S., Overland S., Owolabi M.O., Ozdemir R., Mahesh P.A.,</p>					
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Phase transitions in a linear self-interacting polymer on FCC lattice using flat energy interacting growth walk algorithm	Jaleel A.A.A., Ponmurugan M., Rajesh R., Satyanarayana S.V.M.	Journal of Statistical Mechanics : Theory and Experiment	2018		Department of Physics, Pondicherry University, Puducherry, India; Department of Physics, Central University of Tamilnadu, Thiruvarur, Tamilnadu, 610005, India; Institute of Mathematical Sciences, C.I.T. Campus, Taramani, Chennai, 600113, India; Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai, 400094, India	
T-cell exhaustion in chronic infections: Reversing the state of exhaustion and reinvigorating optimal protective immune responses	Saeidi A., Zandi K., Cheok Y.Y., Saeidi H., Wong W.F., Lee C.Y.Q., Cheong H.C., Yong Y.K., Larsson M., Shankar E.M.	Frontiers in Immunology	2018	3	Department of Medical Microbiology, Faculty of Medicine, University of Malaya, Kuala Lumpur, Malaysia; Center of Excellence for Research in AIDS, University of Malaya, Kuala Lumpur, Malaysia; Department of Pediatrics, School of Medicine, Emory University, Atlanta, GA, United States; Department of Biomedical Sciences, Faculty of Medicine and Health Sciences, University	

					of Putra Malaysia, Selangor, Malaysia; Laboratory Center, Xiamen University Malaysia, Sepang, Malaysia; Division of Molecular Virology, Department of Clinical and Experimental Medicine, Linköping University, Linköping, Sweden; Division of Infection Biology and Medical Microbiology, Department of Life Sciences, School of Life Sciences, Central University of Tamil Nadu, Thiruvavur, India
Population and fertility by age and sex for 195 countries and territories, 1950–2017: a systematic analysis for the Global Burden of Disease Study 2017	Murray C.J.L., Callender C.S.K.H., Kulikoff X.R., Srinivasan V., Abate D., Abate K.H., Abay S.M., Abbasi N., Abastabar H., Abdela J., Abdelalim A., Abdel-Rahman O., Abdi A., Abdoli N., Abdollahpour I., Abdulkader R.S., Abebe H.T., Abebe M., Abebe Z., Abebo T.A., Abejie A.N., Aboyans V., Abraha H.N., Abreu D.M.X., Abrham A.R., Abu-Raddad L.J., Abu-Rmeileh N.M.E., Accrombessi M.M.K., Acharya P., Adamu A.A., Adebayo O.M., Adedeji I.A., Adekanmbi V., Adetokunboh O.O., Adhena B.M., Adhikari T.B., Adib M.G., Adou A.K., Adsuar J.C., Afarideh M., Afshin A., Agarwal G., Agesa K.M., Aghayan S.A., Agrawal S., Ahmadi A., Ahmadi M., Ahmed M.B., Ahmed S., Aichour A.N., Aichour I., Aichour M.T.E., Akanda A.S., Akbari M.E., Akibu M., Akinyemi R.O., Akinyemiju T., Akseer N., Alahdab F., Al-Aly Z., Alam K., Alebel A., Aleman A.V., Alene K.A., Al-Eyadhy A., Ali R., Alijanzadeh M.,	The Lancet	2018	15	

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Diverse target gene modifications in Plasmodium falciparum using Bxb1 integrase and an intronic attB 06 Biological Sciences 0604 Genetics	Balabaskaran-Nina P., Desai S.A.	Parasites and Vectors	2018		Laboratory of Malaria and Vector Research, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Rockville, MD 20852, United States; Department of Epidemiology and Public Health, Central University of Tamil Nadu, Thiruvavur, India
Indoor residual spraying for kala-azar vector control in Bangladesh: A continuing challenge	Chowdhury R., Chowdhury V., Faria S., Islam S., Maheswary N.P., Akhter S., Islam M.S., Dash A.P., Kroeger A., Banu Q.	PLoS neglected tropical diseases	2018		International Centre for Diarrhoea Disease Research, Dhaka, Bangladesh; National Institute of Preventive and Social Medicine (NIPSOM),

					Mohakhali, Dhaka, Bangladesh; Department of Statistics, Dhaka College, Dhaka, Bangladesh; Central University of Tamil Nadu, Thiruvavur, India; Special Programme for Research and Training in Tropical Diseases, World Health Organization, Geneva, Switzerland; University of Freiburg, Centre for Medicine and Society/Anthropology, Freiburg, Germany; Asian University for Women, Chittagong, Bangladesh	
Impact of the ferroelectric layer thickness on the resistive switching characteristics of ferroelectric/dielectric structures	Silva J.M.B., Silva J.P.B., Sekhar K.C., Pereira M., Gomes M.J.M.	Applied Physics Letters	2018	1	Centro de Física das Universidades do Minho e do Porto (CF-UM-UP), Campus de Gualtar, Braga, 4710-057, Portugal; IFIMUP and IN-Institute of Nanoscience and Nanotechnology, Departamento de Física e Astronomia, Faculdade de Ciências da Universidade do Porto, Rua do Campo Alegre 687, Porto, 4169-007, Portugal; Department of Physics, School of Basic and Applied Science, Central University of Tamil Nadu, Thiruvavur, 610 101, India	
Prevalence of disease vectors in Lakshadweep Islands during post-	Krishnan J., Mathiarasan L.	Journal of Vector	2018		Department of Life Sciences, Central University	

monsoon season		Borne Diseases			of Tamil Nadu, Thiruvavur, Tamil Nadu, India; Department of Epidemiology and Public Health, Central University of Tamil Nadu, Thiruvavur, Tamil Nadu, India	
Enhanced Adaptive Technique for Surface Temperature Variability Analysis	Kumar D., Tewary T., Shekhar S.	Iranian Journal of Science and Technolog y, Transactio n A: Science	2018		Amity Institute of Geoinformatics and Remote Sensing (AIGIRS), Amity University, Sector 125, Gautam Buddha Nagar, Noida, Uttar Pradesh 201303, India; Amity Business School (ABS), Amity University, Sector 125, Gautam Buddha Nagar, Noida, Uttar Pradesh 201303, India; School of Earth Sciences, Central University of Tamil Nadu, Neelakudi Campus, Kangalancherry Post, Thiruvavur, Tamil Nadu 610005, India	
Investigation of photocatalytic performances of sulfur based reduced graphene oxide-TiO <sub>2</sub> nanohybrids	Raghavan N., Thangavel S., Sivalingam Y., Venugopal G.	Applied Surface Science	2018	5	Department of Sciences and Technology, School of Engineering and Technology, Karunya Institute of Technology and Sciences, Coimbatore, Tamil Nadu 641114, India; SRM Research Institute, Department of Physics and Nanotechnology, SRM Institute of Science and Technology, Kattangulathur	

					campus, Chennai, India; Department of Materials Sciences, School of Technology, Central University of Tamil Nadu, Thiruvarur, Tamil Nadu 610 005, India	
Electrochemical analysis of Graphene Oxide/Polyaniline/Polyvinyl alcohol composite nanofibers for supercapacitor applications	Rose A., Guru Prasad K., Sakthivel T., Gunasekaran V., Maiyalagan T., Vijayakumar T.	Applied Surface Science	2018	17	Department of Physics and Nanotechnology, SRM Institute of Science and Technology, Kattankulathur, Chennai, Tamil Nadu 603203, India; Department of Nanosciences and Technology, Karunya Institute of Technology and Sciences, Coimbatore, Tamil Nadu 641114, India; Department of Materials Sciences, Central University of Tamil Nadu, Thiruvarur, Tamil Nadu 610005, India; Department of Chemistry, SRM Institute of Science and Technology, Kattankulathur, Chennai, Tamil Nadu 603203, India	
Study of structural and electrochemical properties of La <sub>2</sub> SrV <sub>2</sub> O <sub>9</sub> perovskites prepared using ball-milling	Nallamuthu G., Thangavel S., Kirubakaran K., Vasudevan V., Sivalingam Y., Venugopal G.	Applied Surface Science	2018	1	Nanomaterials Research Lab (NmRL), Department of Nanosciences and Technology, Karunya Institute of Technology and Sciences, Coimbatore, Tamil Nadu 641114, India; SRM Research Institute, Department of Physics and Nanotechnology, SRM	

					Institute of Science and Technology, Kattankulathur Campus, Chennai, 603 203, India; Department of Materials Sciences, School of Technology, Central University of Tamil Nadu, Neelakudi Campus, Thiruvavur, Tamil Nadu 610 005, India
Microbial desalination cells: A boon for future generations	Jothinathan D.	Microbial Fuel Cell Technology for Bioelectricity	2018		Department of Life Sciences, Central University of Tamil Nadu, Thiruvavur, 610005, India
Microbial fuel cells: Fundamentals, types, significance and limitations	Bruno L.B., Jothinathan D., Rajkumar M.	Microbial Fuel Cell Technology for Bioelectricity	2018	2	Department of Environmental Sciences, Bharathiar University, Coimbatore, 641046, India; Department of Life Sciences, Central University of Tamil Nadu, Thiruvavur, 610005, India
Rumen fluid microbes for bioelectricity production: A novel approach	Jothinathan D., Mysamy P., Bruno L.B.	Microbial Fuel Cell Technology for Bioelectricity	2018		Department of Life Sciences, Central University of Tamil Nadu, Thiruvavur, 610005, India; Post Graduate and Research Department of Botany, Pachaiyappa's College, Chennai, 600030, India; Department of Environmental Sciences, Bharathiar University, Coimbatore, 641046, India

Fungal fuel cells: Nature's perpetual energy resource	Rathinavel L., Jothinathan D., Chicas S.D., Mylsamy P.	Microbial Fuel Cell Technology for Bioelectricity	2018	Post Graduate and Research Department of Botany, Pachaiyappa's College, Chennai, 600030, India; Department of Life Sciences, Central University of Tamil Nadu, Thiruvarur, 610005, India; Faculty of Sciences and Technology, University of Belize, Belmopan Central Campus, Cayo District CA, Belize
Electricigens: Role and prominence in microbial fuel cell performance	Jothinathan D., Mylsamy P., Bruno L.B.	Microbial Fuel Cell Technology for Bioelectricity	2018	Department of Life Sciences, Central University of Tamil Nadu, Thiruvarur, 610005, India; Post Graduate and Research Department of Botany, Pachaiyappa's College, Chennai, 600030, India; Department of Environmental Sciences, Bharathiar University, Coimbatore, 641046, India
Algal microbial fuel cells-nature's perpetual energy resource	Rathinavel L., Jothinathan D., Sivasankar V., Agastian P., Mylsamy P.	Microbial Fuel Cell Technology for Bioelectricity	2018	Post Graduate and Research Department of Botany, Pachaiyappa's College, Chennai, Tamil Nadu, 600030, India; Department of Life Sciences, Central University of Tamil Nadu, Thiruvarur, Tamil Nadu, 610005, India; Department of Civil Engineering, Nagasaki University, Nagasaki, 8528521, Japan; Department of Plant Biology

					and Biotechnology, Loyola College, Nungambakkam, Chennai, Tamil Nadu, 600034, India
Microbial fuel cell research using animal waste: A feebly-explored area to others	Jothinathan D., Nasrin Fathima A.H., Mysamy P., Benedict Bruno L., Sivasankar V.	Microbial Fuel Cell Technology for Bioelectricity	2018		Department of Life Sciences, Central University of Tamil Nadu, Thiruvarur, 610005, India; Department of Plant Biology and Plant Biotechnology, Presidency College, Chennai, 600005, India; PG and Research Department of Botany, Pachaiyappa's College, Chennai, 600030, India; Department of Environmental Sciences, Bharathiar University, Coimbatore, 641046, India; Department of Civil Engineering, Nagasaki University, Nagasaki, 8528521, Japan
Physical resources assessment in a semi-arid watershed: An integrated methodology for sustainable land use planning	Balasubramani K.	ISPRS Journal of Photogrammetry and Remote Sensing	2018	1	Department of Geography, School of Earth Sciences, Central University of Tamil Nadu, Thiruvarur, India
Recent advances on T-cell exhaustion in malaria infection	Shankar E.M., Vignesh R., Dash A.P.	Medical Microbiology and Immunology	2018		Division of Infection Biology and Medical Microbiology, Department of Life Sciences (DLS), School of Basic and Applied Sciences, Central University of Tamil Nadu (CUTN), Thiruvarur,



					Tamilnadu 610 005, India; Laboratory-Based Department, Universiti Kuala Lumpur Royal College of Medicine Perak (UniKL-RCMP), Ipoh, Malaysia; Central University of Tamil Nadu (CUTN), Thiruvapur, Tamilnadu 610 005, India	
Protection of photosynthesis in desiccation-tolerant resurrection plants	Challabathula D., Zhang Q., Bartels D.	Journal of Plant Physiology	2018	7	Institute of Molecular Physiology and Biotechnology of Plants, University of Bonn, Kirschallee 1, Bonn, 53115, Germany; Department of Life Sciences, School of Basic and Applied Sciences, Central University of Tamil Nadu, Thiruvapur, India	
Substrate Temperature Effect on Microstructure, Optical, and Glucose Sensing Characteristics of Pulsed Laser Deposited Silver Nanoparticles	Kamakshi K., Silva J.P.B., Sekhar K.C., Agostinho Moreira J., Almeida A., Pereira M., Gomes M.J.M.	Plasmonics	2018	2	Centre of Physics, University of Minho, Campus de Gualtar, Braga, 4710-057, Portugal; IFIMUP and IN-Institute of Nanoscience and Nanotechnology, Departamento de Física e Astronomia, Faculdade de Ciências da Universidade do Porto, Rua do Campo Alegre 687, Porto, 4169-007, Portugal; Department of Physics, Madanapalle Institute of Technology & Science, Madanapalle, Andhra Pradesh, India; Department of Physics, Central University of Tamil	

					Nadu, Thiruvavur, 610 101, India
Controlling breath figure patterns on PDMS by concentration variation of ethanol-methanol binary vapors	Nilavarasi K., Madhurima V.	European Physical Journal E	2018	1	Department of Physics, School of Basic and Applied Sciences, Central University of Tamil Nadu, Thiruvavur, Tamil Nadu 610005, India
Observation of anomalous transport characteristics in graphene-oxide thinfilm	Venugopal G., Sivalingam Y., Krishnamoorthy K., Surya V.J.Y., Devaraju M.K., Kim S.-J.	Materials Chemistry and Physics	2018		Department of Materials Sciences, School of Technology, Central University of Tamil Nadu, Thiruvavur, Tamil Nadu 610 005, India; SRM Research Institute, Department of Physics and Nanotechnology, SRM Institute of Science and Technology, Kattankulathur, Tamil Nadu 603203, India; Future Industries Institute, Division of Information Technology, Engineering and the Environment, University of South Australia, Adelaide, SA 5001, Australia; Department of Mechanical Engineering, Jeju National University, Jeju, 690-756, South Korea
Annealing induced effect on the physical properties of ion-beam sputtered 0.5 Ba(Zr 0.2 Ti 0.8 )O <sub>3</sub> – 0.5 (Ba 0.7 Ca 0.3 )TiO <sub>3-δ</sub> ferroelectric thin films	Oliveira M.J.S., Silva J.P.B., Veltruská K., Matolín V., Sekhar K.C., Moreira J.A., Pereira M., Gomes M.J.M.	Applied Surface Science	2018	2	Centre of Physics, University of Minho, Campus de Gualtar, Braga, 4710-057, Portugal; IFIMUP and IN-Institute of Nanoscience and Nanotechnology, Departamento de Física e Astronomia, Faculdade de

					<p>Ciências da Universidade do Porto, Rua do Campo Alegre 687, Porto, 4169-007, Portugal; Department of Surface and Plasma Science, Faculty of Mathematics and Physics, Charles University, V Holešovičkách 2, 18000 Prague 8, Czech Republic; Department of Physics, School of Basic and Applied Science, Central University of Tamil Nadu, Thiruvarur, 610 101, India</p>	
<p>Susceptibility of wild and colonized <i>Anopheles stephensi</i> to <i>Plasmodium vivax</i> infection</p>	<p>Mohanty A.K., Nina P.B., Ballav S., Vernekar S., Parkar S., D'Souza M., Zuo W., Gomes E., Chery L., Tuljapurkar S., Valecha N., Rathod P.K., Kumar A.</p>	<p>Malaria Journal</p>	<p>2018</p>	<p>National Institute of Malaria Research, Field Unit, Campal, Goa, 403001, India; Departments of Chemistry and Global Health, University of Washington, Seattle, WA 98195, United States; Department of Epidemiology and Public Health, Central University of Tamil Nadu, Thiruvarur, Tamil Nadu, 610005, India; Goa Medical College and Hospital, Bambolim, Goa, 403202, India; Department of Biology, Stanford University, Stanford, CA 94305, United States; National Institute of Malaria Research (ICMR), Dwarka, New Delhi, 110077, India</p>		

<p>A Logit Model to Predict Innovativeness among Mobile Telecom Service Users</p>	<p>Thakur A., Jasrai L.</p>	<p>Global Business Review</p>	<p>2018</p>	<p>Department of Commerce, Central University of Tamil Nadu, Neelakudi, Thiruvavur, Tamil Nadu, India; Department of Management, School of Business, Lovely Professional University, Phagwara, Punjab, India</p>	
<p>Ferroelectric photovoltaic characteristics of pulsed laser deposited 0.5Ba(Zr0.2Ti0.8)O3-0.5(Ba0.7Ca0.3)TiO3/ZnO heterostructures</p>	<p>Silva J.P.B., Sekhar K.C., Cortés-Juan F., Negrea R.F., Kuncser A.C., Connolly J.P., Ghica C., Moreira J.A.</p>	<p>Solar Energy</p>	<p>2018</p>	<p>IFIMUP and IN-Institute of Nanoscience and Nanotechnology, Departamento de Física e Astronomia, Faculdade de Ciências da Universidade do Porto, Rua do Campo Alegre 687, Porto, 4169-007, Portugal; Centre of Physics, University of Minho, Campus de Gualtar, Braga, 4710-057, Portugal; Department of Physics, Central University of Tamil Nadu, Thiruvavur, 610 101, India; Valencia Nanophotonics Technology Center, Ed 8F Camino de Vera s/n, Valencia, 46022, Spain; National Institute of Materials Physics, 105 bis Atomistilor, Magurele, 077125, Romania; GeePs, UMR CNRS 8507, (IPVF), 11 rue Joliot Curie, Plateau de Moulon, Gif sur Yvette, 91192, France</p>	

<p>Antibacterial, magnetic, optical and humidity sensor studies of <math>\beta</math>-CoMoO<sub>4</sub> - Co<sub>3</sub>O<sub>4</sub> nanocomposites and its synthesis and characterization</p>	<p>Mobeen Amanulla A., Jasmine Shahina S.K., Sundaram R., Maria Magdalane C., Kaviyarasu K., Letsholathebe D., Mohamed S.B., Kennedy J., Maaza M.</p>	<p>Journal of Photochemistry and Photobiology B: Biology</p>	<p>2018</p>	<p>53</p>	<p>Department of Chemistry, Presidency College (Autonomous), Chennai, 600 005, India; Department of Microbiology, J.B.A.S College for women (Autonomous), Chennai, 600018, India; Department of Chemistry, St. Xavier's College (Autonomous), Tirunelveli, 627002, India; UNESCO-UNISA Africa Chair in Nanosciences/Nanotechnology Laboratories, College of Graduate Studies, University of South Africa (UNISA), Muckleneuk Ridge, P O Box 392, Pretoria, South Africa; Nanosciences African network (NANOAFNET), Materials Research Department (MRD), iThemba LABS-National Research Foundation (NRF), 1 Old Faure Road, P O Box 722, Somerset West, Western Cape Province 7129, South Africa; Department of Physics, University of Botswana, Private Bag 0022, Gaborone, Botswana; Department of Materials Sciences, Central University of Tamil Nadu, Neelakudi, Thiruvavur, Tamil Nadu 610</p>
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					005, India; National Isotope Centre, GNS Science, Lower Hutt, New Zealand
Dielectric and AC conductivity studies on SrBi <sub>4</sub> Ti <sub>4</sub> O <sub>15</sub>	Jose R., Saravanan K.V.	AIP Conference Proceedings	2018		Department of Physics, Central University of Tamil Nadu, Thiruvarur, 610005, India
Fabrication of (K <sub>0.5</sub> Na <sub>0.5</sub> )(Nb <sub>0.7</sub> Ta <sub>0.3</sub> )O <sub>3</sub> thick films by electrophoretic deposition	Vineetha P., Saravanan K.V.	AIP Conference Proceedings	2018		Department of Physics, School of Basic and Applied Sciences, Central University of Tamil Nadu, Thiruvarur, 610005, India
Probing the onset of structural instabilities as a tool for detection of staling of dairy milk: A permittivity and conductivity study	Madhurima V., Harindran A.	AIP Conference Proceedings	2018		Department of Physics, Central University of Tamil Nadu, Thiruvarur, 610005, India
Magnetoelectric properties of Pb free Bi <sub>2</sub> FeTiO <sub>6</sub> : A theoretical investigation	Patra L., Ravindran P.	AIP Conference Proceedings	2018		Department of Physics, Central University of Tamil Nadu, Thiruvarur, 610005, India; Simulation Center for Atomic and Nanoscale Materials, Central University of Tamil Nadu, Thiruvarur, 610005, India; Department of Materials Sciences, Central University of Tamil Nadu, Thiruvarur, 610005, India; Department of Chemistry, Center for Materials Sciences and Nanotechnology, University of Oslo, P.O. Box 1033, Blindern, Oslo, N 1035, Norway

<p>Effect of multinary substitution on electronic and transport properties of TiCoSb based half-Heusler alloys</p>	<p>Choudhary M.K., Ravindran P.</p>	<p>AIP Conference Proceedings</p>	<p>2018</p>		<p>Department of Physics, Central University of Tamil Nadu, Thiruvarur, 610005, India; Simulation Center for Atomic and Nanoscale Materials, Central University of Tamil Nadu, Thiruvarur, 610005, India; Department of Materials Sciences, Central University of Tamil Nadu, Thiruvarur, 610005, India; Department of Chemistry, Center for Materials Sciences and Nanotechnology, University of Oslo, P.O. Box 1033 Blindern, Oslo, N 1035, Norway</p>	
<p>Hysteretic Characteristics of Pulsed Laser Deposited <math>0.5\text{Ba}(\text{Zr}_{0.2}\text{Ti}_{0.8})\text{O}_3-0.5(\text{Ba}_{0.7}\text{Ca}_{0.3})\text{TiO}_3/\text{ZnO}</math> Bilayers</p>	<p>Silva J.P.B., Wang J., Koster G., Rijnders G., Negrea R.F., Ghica C., Sekhar K.C., Moreira J.A., Gomes M.J.M.</p>	<p>ACS Applied Materials and Interfaces</p>	<p>2018</p>	<p>2</p>	<p>Centre of Physics, University of Minho, Campus de Gualtar, Braga, 4710-057, Portugal; IFIMUP and IN-Institute of Nanoscience and Nanotechnology, Departamento de Física e Astronomia, Faculdade de Ciências da Universidade Do Porto, Rua do Campo Alegre 687, Porto, 4169-007, Portugal; Faculty of Science and Technology and MESA Institute for Nanotechnology, Inorganic Materials Sciences, University of Twente, P.O. Box 217, Enschede, AE 7500, Netherlands; National</p>	

					Institute of Materials Physics, 405A Atomistilor, Magurele, 077125, Romania; Department of Physics, School of Basic and Applied Sciences, Central University of Tamil Nadu, Thiruvarur, 610101, India
CLAG3 self-associates in malaria parasites and quantitatively determines nutrient uptake channels at the host Membrane	Gupta A., Balabaskaran-Nina P., Nguitrageel W., Saggu G.S., Schureck M.A., Desai S.A.	mBio	2018	3	Laboratory of Malaria and Vector Research, NIAID, National Institutes of Health, Rockville, MD, United States; Department of Epidemiology and Public Health, Central University of Tamil Nadu, Thiruvarur, India; Department of Molecular Tropical Medicine and Genetics, Mahidol University, Bangkok, Thailand
Complement-opsonized HIV-1 alters cross talk between dendritic cells and natural killer (NK) cells to inhibit NK killing and to upregulate PD-1, CXCR3, and CCR4 on T cells	Ellegård R., Khalid M., Svanberg C., Holgersson H., Thorén Y., Wittgren M.K., Hinkula J., Nyström S., Shankar E.M., Larsson M.	Frontiers in Immunology	2018	4	Division of Molecular Virology, Department of Clinical and Experimental Medicine, Linköping University, Linköping, Sweden; Department of Pharmaceutics, College of Pharmacy, King Khalid University, Asir-Abha, Saudi Arabia; Clinical Immunology and Transfusion Medicine, Department of Clinical and Experimental Medicine, Linköping University, Linköping, Sweden; Division of Infection Biology,



					Department of Life Sciences, Central University of Tamil Nadu, Thiruvapur, India; Center of Excellence for Research in AIDS (CERiA), University of Malaya, Lembah Pantai, Kuala Lumpur, Malaysia; Department of Microbiology, Central University of Tamil Nadu, Thiruvapur, India
Concentrated solar energy used for sintering magnesium titanates for electronic applications	Apostol I., Rodríguez J., Cañadas I., Galindo J., Mendez S.L., de Abreu Martins P.L., Cunha L., Saravanan K.V.	Applied Surface Science	2018	3	S.C. IPEE Amiral Trading Impex S.A., Curtea de Arges, 115300, Romania; CIEMAT- Plataforma Solar de Almeria, Tabernas, Almeria E-04200, Spain; Physics Department – Centre of Physics, University of Minho, Braga, 4710-057, Portugal; Department of Physics, School of Basic and Applied Science, Central University of TamilNadu, Thiruvapur, 61010, India
Study of H 1 spin lattice relaxation and dielectric relaxation in Poly(propylene glycol) system	Kabara K., Madhurima V., Kumbharkhane A.C., Sarode A.V.	Materials Chemistry and Physics	2018		School of Physical Sciences, Swami RamanandTeerth Marathwada University, Nanded, Maharashtra 431 606, India; Department of Physics, Central University of Tamil Nadu, Thiruvapur, 610005, India
Bipolar ferroelectric fatigue in (K <sub>0.5</sub> Na <sub>0.5</sub> )(Nb <sub>0.7</sub> Ta <sub>0.3</sub> )O <sub>3</sub> ceramics and improved fatigue endurance on addition of ZnO	Vineetha P., Shanmuga Priya B., Venkata Saravanan K.	AIP Conference Proceedings	2018		Department of Physics, School of Basic and Applied Sciences, Central University of Tamil Nadu, Thiruvapur,

		gs			610005, India	
A first principle study on iron substituted LiNi (BO <sub>3</sub> ) to use as cathode material for Li-ion batteries	Augustine A.M., Sudarsanan V., Sunny G., Ravindran P.	AIP Conference Proceedings	2018		Department of Physics, Central University of Tamil Nadu, Thiruvarur, Tamil Nadu, 610101, India; Simulation Center for Atomic and Nanoscale MATerials (SCANMAT), Central University of Tamil Nadu, Thiruvarur, Tamil Nadu, 610101, India; Department of Materials Sciences, Central University of Tamil Nadu, Thiruvarur, Tamil Nadu, 610101, India; Center for Material Science and Nanotechnology and Department of Chemistry, University of Oslo, Box 1033, Blindern, Oslo, N-0315, Norway	
Phosphorene-AsP heterostructure as a potential excitonic solar cell material - A first principles study	Kishore M.R.A., Ravindran P.	AIP Conference Proceedings	2018		Department of Physics, Central University of Tamil Nadu, Thiruvarur, Tamil Nadu, 610101, India; Simulation Center for Atomic and Nanoscale MATerials (SCANMAT), Central University of Tamil Nadu, Thiruvarur, Tamil Nadu, 610101, India; Department of Materials Sciences, Central University of Tamil Nadu, Thiruvarur, Tamil Nadu, 610101, India; Center of Material Science and Nanotechnology,	

					Department of Chemistry, University of Oslo, Box 1033 Blindern, Oslo, N-0315, Norway
Chemical bonding analysis on amphoteric hydrogen - Alkaline earth ammine borohydrides	Kiruthika S., Ravindran P.	AIP Conferenc e Proceedin gs	2018		Department of Physics, Central University of Tamil Nadu, Thiruvapur, 610005, India; Simulation Center for Atomic and Nanoscale Materials, Central University of Tamil Nadu, Thiruvapur, 610005, India; Department of Materials Sciences, Central University of Tamil Nadu, Thiruvapur, 610005, India; Department of Chemistry, Center for Materials Sciences and Nanotechnology, University of Oslo, P.O. Box 1033, Blindern, Oslo, N 1035, Norway
Search for thermoelectrics with high figure of merit in half- Heusler compounds with multinary substitution	Choudhary M.K., Ravindran P.	AIP Conferenc e Proceedin gs	2018		Department of Physics, Central University of Tamil Nadu, Thiruvapur, 610005, India; Simulation Center for Atomic and Nanoscale Materials, Central University of Tamil Nadu, Thiruvapur, 610005, India; Department of Materials Sciences, Central University of Tamil Nadu, Thiruvapur, 610005, India; Department of Chemistry, Center for Materials Sciences and Nanotechnology, University

					of Oslo, P.O. Box 1033, Blindern, Oslo, N 1035, Norway
Theoretical investigation of the magnetoelectric properties of Bi <sub>2</sub> NiTiO <sub>6</sub>	Patra L., Ravindran P.	AIP Conference Proceedings	2018		Department of Physics, Central University of Tamil Nadu, Thiruvarur, 610005, India; Simulation Center for Atomic and Nanoscale Materials, Central University of Tamil Nadu, Thiruvarur, 610005, India; Department of Materials Sciences, Central University of Tamil Nadu, Thiruvarur, 610005, India; Department of Chemistry, Center for Materials Sciences and Nanotechnology, University of Oslo, P.O. Box 1033, Blindern, Oslo, N 1035, Norway
Khasi hills and Khasi culture: Reconnection in Kynpham Sing Nongkynrih's The Yearning of Seeds	Chakraborty S.	Journal of Commonwealth Literature	2018		Central University of Tamil Nadu, India, India
Adhesion and invasion attributes of Burkholderia pseudomallei are dependent on airway surface liquid and glucose concentrations in lung epithelial cells	Mariappan V., Thimma J., Vellasamy K.M., Shankar E.M., Vadivelu J.	Environmental Microbiology Reports	2018		Department of Medical Microbiology, Faculty of Medicine, University of Malaya, Kuala Lumpur, 50603, Malaysia; Division of Infection Biology and Microbiology, Department of Life Sciences, Central University of Tamil Nadu (CUTN), Thiruvarur, 610 101, India

Concentration effect on the structural and spectroscopic investigations of Sm <sup>3+</sup> ions doped B <sub>2</sub> O <sub>3</sub> -Bi <sub>2</sub> O <sub>3</sub> -CaF <sub>2</sub> -Na <sub>2</sub> O glasses	Mariyappan M., Arunkumar S., Marimuthu K.	Journal of Luminescence	2018	6	Department of Physics, Gandhigram Rural University, Gandhigram, 624302, India; Department of Physics, Central University of Tamilnadu, Thiruvarur, 610101, India
A novel MoS <sub>2</sub> structures for electrochemical detection of 4-aminophenol	Ramasubramanian P.A., Thangavel S., Nallamuthu G., Kirabakaran K., Vasudevan V., Ravichandran K., Venugopal G.	Journal of Materials Sciences: Materials in Electronics	2018		Department of Nanosciences and Technology, Karunya Institute of Technology and Sciences, Coimbatore, Tamil Nadu 641-114, India; Department of Physics, St. Joseph's College (Autonomous), Shanthi Nagar, Bengaluru, Karnataka 560 027, India; Department of Materials Sciences, School of Technology, Central University of Tamil Nadu, Thiruvarur, Tamil Nadu 610 005, India
Integrated quantum flow and hidden Markov chain approach for resisting DDoS attack and C-Worm	Saranya R., Kannan S.S., Sundaram S.M.	Cluster Computing	2018	1	Department of Computer Science, Central University of Tamilnadu, Neelakudi, Tamil Nadu, India; Department of Computer Science and Engineering, Madurai Institute of Engineering and Technology, Sivagangai, Tamil Nadu, India; Department of Computer Science and Engineering, Aringer Anna College of

					Engineering and Technology, Dindigul, Tamil Nadu, India	
Hyper-expression of PD-1 is associated with the levels of exhausted and dysfunctional phenotypes of circulating CD161 ++ TCR iVa7.2 + Mucosal-associated invariant T cells in chronic hepatitis B virus infection	Yong Y.K., Saeidi A., Tan H.Y., Rosmawati M., Enström P.F., Batran R.A., Vasuki V., Chattopadhyay I., Murugesan A., Vignesh R., Kamarulzaman A., Rajarajeswaran J., Ansari A.W., Vadivelu J., Ussher J.E., Velu V., Larsson M., Shankar E.M.	Frontiers in Immunology	2018	11	Laboratory Center, Xiamen University Malaysia, Sepang, Malaysia; Department of Medicine, University of Malaya Medical Centre, Kuala Lumpur, Malaysia; China-ASEAN Institute of Marine Science (CAMS), Xiamen University Malaysia, Sepang, Malaysia; Department of Traditional Chinese Medicine, Xiamen University Malaysia, Sepang, Malaysia; Division of Molecular Virology, Department of Clinical and Experimental Medicine, Linköping University, Linköping, Sweden; Department of Medical Microbiology, Faculty of Medicine, University of Malaya, Kuala Lumpur, Malaysia; Department of Microbiology, The Government Thiruvapur Medical College and Hospital, Thiruvapur, India; Division of Molecular Cancer Biology, Department of Life Sciences, Central University of Tamil Nadu, Thiruvapur, India; The Government Theni Medical College and	

					Hospital, Theni, India; Laboratory-Based Department, Universiti Kuala Lumpur, Ipoh, Malaysia; Center of Excellence for Research in AIDS, University of Malaya, Kuala Lumpur, Malaysia; Department of Molecular Medicine, Faculty of Medicine, University of Malaya, Kuala Lumpur, Malaysia; Department of Microbiology and Immunology, University of Otago, Dunedin, New Zealand; Department of Microbiology and Immunology, Emory Vaccine Center, Atlanta, GA, United States; Division of Infection Biology, Department of Life Sciences, Central University of Tamil Nadu, Thiruvavur, India; Department of Microbiology, Central University of Tamil Nadu, Thiruvavur, India	
Comment on "protecting bipartite entanglement by quantum interferences"	Nair A.N., Arun R.	Physical Review A	2018	1	Department of Physics, School of Basic and Applied Sciences, Central University of Tamilnadu, Thiruvavur, Tamilnadu 610005, India	
Relations between the efficiency, power and dissipation for linear irreversible heat engine at	Iyyappan I., Ponmurugan M.	Journal of Statistical Mechanics	2018	1	Department of Physics, School of Basic and Applied Sciences, Central University	

maximum trade-off figure of merit		: Theory and Experiment			of Tamil Nadu, Thiruvapur, Tamil Nadu, 610 005, India
Assessment of Tobacco Consumption and Control in India	Mohan P., Lando H.A., Panneer S.	Integrative Medicine Insights	2018		Department of Health Sciences, University of Canterbury, Christchurch, New Zealand; Managing Trustee, Integrated Social Development Seva Trust, Bangalore, India; Division of Epidemiology & Community Health, University of Minnesota, Minnesota, MN, United States; Department of Social Work, Centre for Happiness, Department of Applied Psychology, Central University of Tamil Nadu, Thiruvapur, India
Estimation of the burden of serious human fungal infections in Malaysia	Velayuthan R.D., Samudi C., Singh H.K.L., Ng K.P., Shankar E.M., Denning D.W.	Journal of Fungi	2018	2	Department of Medical Microbiology, Faculty of Medicine, University of Malaya, Kuala Lumpur, 50603, Malaysia; Centre of Excellence for Research in AIDS (CERiA), Faculty of Medicine, University of Malaya, Kuala Lumpur, 50603, Malaysia; Department of Microbiology, School of Basic & Applied Sciences, Central University of Tamil Nadu (CUTN), Thiruvapur, Tamil Nadu 610 101, India; Faculty of Biology, Medicine and



					Health, The University of Manchester and Manchester Academic Health Science Centre, Oxford Road, Manchester, M13 9PL, United Kingdom; The National Aspergillosis Centre, Education and Research Centre, Wythenshawe Hospital, Manchester, M23 9LT, United Kingdom	
Ferromagnetic nature in low-dimensional S = 1 antiferromagnetic Li <sub>2</sub> Ni(WO <sub>4</sub> ) <sub>2</sub> nanoparticles	Panneer Muthuselvam I., Sankar R., Narsinga Rao G., Karna S.K., Chou F.C.	Journal of Magnetism and Magnetic Materials	2018	2	Center for Condensed Matter Sciences, National Taiwan University, Taipei, 10617, Taiwan; Institute of Physics, Academia Sinica, Taipei, 10617, Taiwan; Central University of Tamil Nadu, Department of Materials Sciences, Neelakudi, Thiruvavur, Tamil Nadu 610005, India; Marri Laxman Reddy Institute of Technology and Management, Hyderabad, Telangana, India; National Synchrotron Radiation Research Center, Hsinchu, 30076, Taiwan; Taiwan Consortium of Emergent Crystalline Materials, National Science Council, Taipei, 10622, Taiwan	
Superconductivity in a Misfit Layered (SnS) <sub>1.15</sub> (TaS <sub>2</sub> ) Compound	Sankar R., Peramaiyan G., Panneer Muthuselvam I., Wen C.-Y., Xu X., Chou F.C.	Chemistry of Materials	2018	2	Institute of Physics, Academia Sinica, Taipei, 10617, Taiwan; Center for	

					Condensed Matter Sciences, National Taiwan University, Taipei, 10617, Taiwan; Department of Materials Sciences, Central University of Tamil Nadu, Neelakudi, Thiruvapur, Tamil Nadu, 610005, India; Department of Materials Sciences and Engineering, National Taiwan University, Taipei, 10617, Taiwan; Advanced Functional Materials Lab, Department of Physics, Changshu Institute of Technology, Changshu, 215500, China; Department of Physics, Hangzhou Normal University, Hangzhou, 310036, China; National Synchrotron Radiation Research Center, Hsinchu, 30076, Taiwan; Taiwan Consortium of Emergent Crystalline Materials, Ministry of Science and Technology, Taipei, 10622, Taiwan	
Determinants of preference of milk and milk products: The case of rural and urban areas in kanchipuram district of tamil nadu	Rameshkumar S., Vikraman A.	Indian Journal of Marketing	2018		Department of Commerce, School of Commerce and Business Management, Central University of Tamil Nadu, Thiruvapur, 610 005, India; Sri SankaraArts and Science College, Enathur, Kanchipuram, Tamil Nadu, 631 561, India	

Low-cost palladium decorated on: M -aminophenol-formaldehyde-derived porous carbon spheres for the enhanced catalytic reduction of organic dyes	Veerakumar P., Panneer Muthuselvam I., Thanasekaran P., Lin K.-C.	Inorganic Chemistry Frontiers	2018	9	Department of Chemistry, National Taiwan University, Taipei, 10617, Taiwan; Institute of Atomic and Molecular Sciences, Academia Sinica, Taipei, 10617, Taiwan; Department of Materials Sciences, Central University of Tamil Nadu, Neelakudi, Thiruvavur 610005, India; Institute of Chemistry, Academia Sinica, Taipei, 11529, Taiwan
General relations between the power, efficiency, and dissipation for the irreversible heat engines in the nonlinear response regime	Iyyappan I., Ponmurugan M.	Physical Review E	2018	3	Department of Physics, School of Basic and Applied Sciences, Central University of Tamil Nadu, Thiruvavur, Tamil Nadu 610 005, India
Crystal growth and transport properties of Weyl semimetal TaAs	Sankar R., Peramaiyan G., Muthuselvam I.P., Xu S., Hasan M.Z., Chou F.C.	Journal of Physics Condensed Matter	2018	1	Institute of Physics, Academia Sinica, Taipei, 10617, Taiwan; Center for Condensed Matter Sciences, National Taiwan University, Taipei, 10617, Taiwan; Department of Materials Sciences, Central University of Tamil Nadu, Neelakudi, Thiruvavur, Tamil Nadu, 610005, India; Laboratory for Topological Quantum Matter and Spectroscopy (B7), Department of Physics, Princeton University, Princeton, NJ 08544, United States; National Synchrotron Radiation Research Center,

					Hsinchu, 30076, Taiwan; Taiwan Consortium of Emergent Crystalline Materials, National Science Council, Taipei, 10622, Taiwan	
Evidence of anomalous behavior of intermolecular interactions at low concentration of methanol in ethanol-methanol binary system	Nilavarasi K., Kartha T.R., Madhurima V.	Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy	2018	3	Department of Physics, Central University of Tamil Nadu, School of Basic and Applied Sciences, Thiruvavur, Tamil Nadu 610005, India	
Geriatric depression among the retired elders in Madurai, Tamil Nadu, India	Meenakshi J.R.	Indian Journal of Community Health	2018		Department of Social Work, Central University of Tamil Nadu, Thiruvavur, Tamil Nadu 610 005, India	
Organic semiconductor/graphene oxide composites as a photo-anode for photo-electrochemical applications	Khurshid F., Jeyavelan M., Sterlin Leo Hudson M., Nagarajan S.	RSC Advances	2018	1	Department of Chemistry, Central University of Tamil Nadu, Thiruvavur, India; Department of Physics, Central University of Tamil Nadu, Thiruvavur, India	
Influence of polar and dispersive part of surface tension on the self-assembly of droplets on PDMS surfaces	Nilavarasi K., Madhurima V.	Materials Today: Proceedings	2018		Department of Physics, School of Basic and Applied Sciences, Central University of Tamil Nadu, Thiruvavur, Tamil Nadu 610005, India	
Functionalization of 1, 8-Naphthalimides- An approach towards air-stable n- type organic semiconductors	Sonalin S., Sakthivel K., Nagarajan S.	Materials Today: Proceedings	2018		Department of Chemistry, Central University of Tamil Nadu, Thiruvavur, 610 005, India	
Electrochemical properties of reduced graphene oxide derived through camphor assisted	Ramesh A., Jeyavelan M., Leo Hudson M.S.	Dalton Transactions	2018	1	Department of Physics, Central University of Tamil Nadu, Thiruvavur, 610005,	

combustion of graphite oxide					India	
Semipositivity of linear maps relative to proper cones in finite dimensional real hilbert spaces	Arumugasamy C., Jayaraman S., Mer V.N.	Electronic Journal of Linear Algebra	2018		Department of Mathematics, School of Mathematics and Computer Sciences, Central University of Tamil Nadu, Neelakudi, Kangalancherry,, Thiruvavarur, Tamilnadu 610 101, India; School of Mathematics, Indian Institute of Science Education and Research Thiruvananthapuram, Maruthamala P.O., Vithura, Thiruvananthapuram, Kerala 695 551, India	
Full column rank preservers that preserve semipositivity of matrices	Arumugasamy C., Jayaraman S.	Special Matrices	2018	1	Department of Mathematics, School of Mathematics and Computer Sciences, Central University of Tamil Nadu, Neelakudi, Kangalancherry, Thiruvavarur, Tamilnadu, 610 101, India; School of Mathematics, Indian Institute of Science Education and Research Thiruvananthapuram, Maruthamala P.O., Vithura, Thiruvananthapuram, 695 551, India	
Investigation into defect chemistry and relaxation processes in niobium doped and undoped SrBi 4 Ti 4 O 15 using impedance spectroscopy	Jose R., Vineetha P., Rafiq M.A., Venkata Saravanan K.	RSC Advances	2018		Department of Physics, Central University of Tamil Nadu, Thiruvavarur, 610005, India; Department of Metallurgical and Materials Engineering, University of Engineering and	

					Technology, G.T Road, Lahore, 54890, Pakistan
Unsymmetrical starburst triarylamine: Synthesis, properties and characteristics of OFETs	Dheepika R., Sonalin S., Imran P.M., Nagarajan S.	Journal of Materials Chemistry C	2018	2	Department of Chemistry, Central University of Tamil Nadu, Thiruvavur, 610 005, India; Department of Chemistry, Islamiah College, Vaniyambadi, 635 752, India
Library professionals' adoption of cloud computing technologies: A case study on Kerala University Library, India	Pillai S.K.G., Seena S.T.	Library Philosophy and Practice	2018		Department of Library and Information Science, Central University of Tamil Nadu, Neelakudi Campus Thiruvavur, Tamil Nadu, 610 005, India; Department of Library and Information Science University of Kerala, Thiruvananthapuram, Kerala, 695034, India
Aryl fluoride functionalized graphene oxides for excellent room temperature ammonia sensitivity/selectivity	Khurshid F., Jeyavelan M., Takahashi K., Leo Hudson M.S., Nagarajan S.	RSC Advances	2018	4	Department of Chemistry, Central University of Tamil Nadu, Thiruvavur, 610005, India; Department of Physics, Central University of Tamil Nadu, Thiruvavur, 610005, India; Center for Materials Research by Information Integration (CMI2), National Institute for Materials Sciences (NIMS), 1-2-1 Sengen, Tsukuba Ibaraki, 305-0047, Japan
Assessing photosensitizer targeting using meso-tetra(Carboxyphenyl) porphyrin	Chitgupi U., Lovell J.F., Rajendiran V.	Molecules	2018	2	Department of Biomedical Engineering, University at Buffalo, State University of New York, Buffalo, NY

					14260, United States; Department of Chemistry, School of Basic and Applied Sciences, Central University of Tamil Nadu, Thiruvarur, 610005, India	
Identification of user preference for multi-criteria reporting in business intelligence: A case study on banking business	Aruldoss M., Travis M.L., Venkatasamy P.V.	Advances in E- Business Research Series	2018		Central University of Tamil Nadu, India; Bharathiyar University, India; Pondicherry University, India	
Applications of quorum sensing in microbial fuel cell	Jothinathan D., Fathima AH N., Raman P.	Quorum Sensing and its Biotechnol ogical Applicatio ns	2018		Department of Life Sciences, Central University of Tamil Nadu, Thiruvarur, India; Department of Plant Biology and Plant Biotechnology, Presidency College, Chennai, India; Department of Biotechnology, School of Bioengineering, SRM University, Kattankulathur, Tamil Nadu, India	
Synthesis of water-soluble and bio-tagable CdSe@ZnS quantum dots	Ramalingam G., Saravanan K.V., Vizhi T.K., Rajkumar M., Baskar K.	RSC Advances	2018	3	Department of Nanoscience and Technology, Alagappa University Karaikudi Tamil Nadu 630 003, India; Department of Physics, Central University of Tamil, Nadu Thiruvarur, Tamil Nadu, 610 101, India; Department of Environmental Sciences, Bharathiyar University, Coimbatore Tamil Nadu, 641 046, India; Entomology Research Institute, Loyola	

					College, Chennai, Tamil Nadu, 600 034, India	
Gut Microbial Changes, Interactions, and Their Implications on Human Lifecycle: An Ageing Perspective	Vemuri R., Gundamaraju R., Shastri M.D., Shukla S.D., Kalpurath K., Ball M., Tristram S., Shankar E.M., Ahuja K., Eri R.	BioMed Research International	2018	9	School of Health Sciences, College of Health and Medicine, University of Tasmania, Launceston, TAS 7250, Australia; School of Biomedical Sciences and Pharmacy, University of Newcastle, Callaghan, NSW, Australia; Rehabilitation and Aged Care Services, Kingston Center, Monash Health, Monash University, Melbourne, VIC, Australia; School of Health and Biomedical Sciences, RMIT University, Bundoora, VIC 3082, Australia; School of Basic and Applied Sciences, Central University of Tamil Nadu, Thiruvavur, India	
Metamagnetism stabilized giant magnetoelectric coupling in ferroelectric: X BaTiO <sub>3</sub> -(1 - X)BiCoO <sub>3</sub> solid solution	Patra L., Pan Z., Chen J., Azuma M., Ravindran P.	Physical Chemistry Chemical Physics	2018	1	Department of Physics, Central University of Tamil Nadu, Thiruvavur, 610101, India; Simulation Center for Atomic and Nanoscale MATerials, Central University of Tamil Nadu, Thiruvavur Tamil Nadu, 610101, India; Department of Physical Chemistry, University of Science and Technology Beijing, Beijing, 100083, China; State Key Laboratory of Refractories and Metallurgy, Wuhan	



					University of Science and Technology, Wuhan, 430081, China; Materials and Structures Laboratory, Tokyo Institute of Technology, 4259 Nagatsuta, Midori Yokohama, 226-8503, Japan; Department of Materials Sciences, Central University of Tamil Nadu, Thiruvavur Tamil Nadu, 610101, India; Center for Materials Sciences and Nanotechnology, Department of Chemistry, University of Oslo, Box 1033, Blindern, Oslo, N-0315, Norway	
<b>Citation Index: Web of Science</b>						
Up-Scalable Synthesis of Size-Controlled White-Green Emitting Behavior of Core/Shell (CdSe/ZnS) Quantum Dots for LED Applications	Author(s): Ramalingam, G (Ramalingam, G.); Ragupathi, C (Ragupathi, C.); Kaviyarasu, K (Kaviyarasu, K.); Letsholathebe, D (Letsholathebe, D.); Mohamed, SB (Mohamed, S. B.); Magdalane, CM (Magdalane, C. Maria); Mola, GT (Mola, G. T.); Isaev, AB (Isaev, Abdulgali B.); Maaza, M (Maaza, M.)	JOURNAL OF NANOSCIENCE AND NANOTECHNOLOGY	2019			
Enhanced Photocatalytic Degradation Activity of 2-D Graphitic Carbon Nitride-SnO <sub>2</sub> Nanohybrids	Kirubakaran, KP (Kirubakaran, Kiran Preethi); Thangavel, S (Thangavel, Sakthivel); Nallamuthu, G (Nallamuthu, Gouthami); Vasudevan, V (Vasudevan, Vinesh); Ramasubramanian, PAS (Ramasubramanian, Priya Arul Selvi); Kumar, A (Kumar, Ashwini); Venugopal, G (Venugopal, Gunasekaran)	JOURNAL OF NANOSCIENCE AND NANOTECHNOLOGY	2019			
Antioxidant and Photocatalytic	Author(s): Thomas, B (Thomas, Bindu);	JOURNAL	2019			

Activity of Aqueous Leaf Extract Mediated Green Synthesis of Silver Nanoparticles Using <i>Passiflora edulis f. flavicarpa</i>	Vithiya, BSM (Vithiya, B. Scholastica Mary); Prasad, TAA (Prasad, T. Augustine Arul); Mohamed, SB (Mohamed, S. B.); Magdalane, CM (Magdalane, C. Maria); Kaviyarasu, K (Kaviyarasu, K.); Maaza, M (Maaza, M.)	L OF NANOSCIENCE AND NANOTECHNOLOGY				
A Note on Gauss's Theorem on Primitive Roots	Ramesh, VP (Ramesh, V. P.); Thangadurai, R (Thangadurai, R.); Thatchaayini, R (Thatchaayini, R.)	AMERICAN MATHEMATICAL MONTHLY	2019			
How Do Small Farmers Fare? Evidence from Village Studies in India	Prasanna, CK (Prasanna, Chitra Karunakaran)	INTERNATIONAL SOCIOLOGY	2019			
Density functional theory ( DFT) calculations of VI/ V reduction potentials of uranyl coordination complexes in non- aqueous solutions	Arumugam, K (Arumugam, Krishnamoorthy); Burton, NA (Burton, Neil A.)	PHYSICAL CHEMISTRY CHEMICAL PHYSICS	2019			
One-pot Synthesis of 2-Hydroxy-1,4-Naphthoquinone (Lawsone)	Sivakumar, D (Sivakumar, Dhanavel); Thanusu, J (Thanusu, Jayaraman); Kanagarajan, V (Kanagarajan, Vijayakumar); Nagarajan, S (Nagarajan, Samuthira); Manikandan, H (Manikandan, Haridoss); Gopalakrishnan, M (Gopalakrishnan, Mannathusamy)	CURRENT ORGANIC SYNTHESIS	2019			
A rare neurological sequelae of chicken pox in an adult	Balamurugesan, K (Balamurugesan, Kandan); Davis, P (Davis, Prem); Ponprabha, R (Ponprabha, Rajangam); Sarasveni, M (Sarasveni, Malaimala)	JOURNAL OF ACUTE DISEASE	2018			
INVESTIGATING THE FUNCTION OF PUTATIVE MITOCHONDRIAL PROTEINS OF <i>PLASMODIUM</i>	Nina, PB (Nina, Praveen); Chellappan, S (Chellappan, Savitha); Roy, S (Roy, Subarna); Tabassum, W (Tabassum, Wahida); Bhattacharyya, M	AMERICAN JOURNAL OF	2018			

FALCIPARUM</it> IN <it>SACCHROMYCES CEREVISIAE</it>	(Bhattacharyya, Mrinal)	TROPICA L MEDICIN E AND HYGIENE				
Porphyrin and Phthalocyanine Radiolabeling	Rajendiran, V (Rajendiran, Venugopal); Ghosh, S (Ghosh, Sanjana); Lovell, JF (Lovell, Jonathan F.)	RADIONA NOMEDI CINE: COMBIN ED NUCLEA R AND NANOME DICINE Book Series:	2018			
Indigenous and Western Medicines in Colonial South India: Nature of Discourses and Impact	Kanagarathinam, DV (Kanagarathinam, D., V)	INDIAN JOURNA L OF HISTORY OF SCIENCE	2018			
Analysis of the effect of bidi regulations and its influence on tobacco control in India	Lando, HA (Lando, H. A.); Kabir, Z (Kabir, Z.); Mohan, P (Mohan, P.); Panneer, S (Panneer, S.)	TOBACC O INDUCED DISEASE S	2018			
Policy action for health professionals involvement in tobacco control	Lando, HA (Lando, H. A.); Mohan, P (Mohan, P.); Panneer, S (Panneer, S.)	TOBACC O INDUCED DISEASE S	2018			
Balancing Skill Education and General Education: A Study on Additional Skill Acquisition Programme of Kerala	Davis, B (Davis, Benson)	JOURNA L OF SOCIAL WORK EDUCATI ON AND PRACTIC	2018			

		E			
Optical and Structural Properties of Fluorine Doped SnO <sub>2</sub> on Si (100) for Photovoltaic Application	Nivetha, S (Nivetha, S.); Kaviyarasu, K (Kaviyarasu, K.); Ayeshamariam, A (Ayeshamariam, A.); Punithavelan, N (Punithavelan, N.); Perumalsamy, R (Perumalsamy, R.); Diallo, A (Diallo, A.); Ramalingam, G (Ramalingam, G.); Mohamed, SB (Mohamed, S. B.); Letsholathebe, D (Letsholathebe, D.); Magdalene, CM (Magdalene, C. Maria); Jayachandran, M (Jayachandran, M.)	JOURNAL OF NANO ELECTRONICS AND OPTOELECTRONICS	2018		
Structural, Morphological and Methanol Sensing Properties of Jet Nebulizer Spray Pyrolysis Effect of TiO <sub>2</sub> Doped SnO <sub>2</sub> Thin Film for Removal of Heavy Metal Ions	Manjula, N (Manjula, N.); Kaviyarasu, K (Kaviyarasu, K.); Ayeshamariam, A (Ayeshamariam, A.); Selvan, G (Selvan, G.); Diallo, A (Diallo, A.); Ramalingam, G (Ramalingam, G.); Mohamed, SB (Mohamed, S. B.); Letsholathebe, D (Letsholathebe, D.); Jayachandran, M (Jayachandran, M.)	JOURNAL OF NANO ELECTRONICS AND OPTOELECTRONICS	2018		
Viral Persistence and Chronicity in Hepatitis C Virus Infection: Role of T-Cell Apoptosis, Senescence and Exhaustion	Barathan, M (Barathan, Muttiah); Mohamed, R (Mohamed, Rosmawati); Yong, YK (Yong, Yean K.); Kannan, M (Kannan, Meganathan); Vadivelu, J (Vadivelu, Jamuna); Saeidi, A (Saeidi, Alireza); Larsson, M (Larsson, Marie); Shankar, EM (Shankar, Esaki Muthu)	CELLS	2018		
Enhanced Photocatalytic Properties of Nanostructured WO <sub>3</sub> Semiconductor-Photocatalyst Prepared via Hydrothermal Method	Vasudevan, V (Vasudevan, Vinesh); Thangavel, S (Thangavel, Sakthivel); Nallamuthu, G (Nallamuthu, Gouthami); Kirubakaran, K (Kirubakaran, Kiranpreethi); Ramasubramanian, PA (Ramasubramanian, Priya Arulsevi); Venugopal, G (Venugopal, Gunasekaran)	JOURNAL OF NANOSCIENCE AND NANOTECHNOLOGY	2018		
Psychological Wellbeing among College Students	Udhayakumar, P (Udhayakumar, P.); Illango, P (Illango, P.)	JOURNAL OF SOCIAL WORK EDUCATION	2018		

		ON AND PRACTICE				
<b>Citation Index: Indian Citation Index</b>						
An interesting case of acute disseminated encephalomyelitis following E. coli infection	Balamurugesan Kandan, Ponprabha Rajangam, Davis Prem	JOURNAL OF FAMILY MEDICINE AND PRIMARY CARE	2019			
Traders' participation in commodity futures markets in Kerala : A case study of rubber and pepper trade	Sumalatha B S	ECONOMIC AND POLITICAL WEEKLY	2019			
Scientometrics of information science and scientometrics research in India as reflected through Indian science abstracts during 2011-2015	Rani G L Soumya, Sudhier K G	IASLIC BULLETIN	2018			
Perception of Special Educational Needs (SEN) Teachers on the availability of infrastructural facilities in the special education schools	Rajendran Poornima, Athira B K	ASIAN JOURNAL OF MULTIDISCIPLINARY RESEARCH	2018			
Revisiting nexus between economic growth and electricity in India	Nalini G S	RESEARCHERS WORLD - JOURNAL OF ARTS SCIENCE AND COMMER	2018			

		CE			
Determinants of interest subsidy on education loans in India: Who gains and who loses?	Rani P Geetha, Mukesh	JOURNAL OF MANAGEMENT & PUBLIC POLICY	2017		
Basics of Resources provision and allotment based on QoS in the cloud	Nayak Nihar Ranjan, Bhuvanewari	INDIAN JOURNAL OF COMPUTER SCIENCE AND ENGINEERING	2018		
Redesigning the public distribution system in India: A comparative analysis of the states	Thomas Sweety	ASIAN JOURNAL OF RESEARCH IN SOCIAL SCIENCES AND HUMANITIES	2017		

**Q.No. 3.4.6 – Annexure II**

3.4.6 h-Index of the Institutional Publications during the year. (based on Scopus / Web of Science)

<b>Title of the paper</b>	<b>Name of the author</b>	<b>Title of the Journal</b>	<b>Year of publication</b>	<b>h-index</b>	<b>Number of citations excluding self-citations</b>	<b>Institutional affiliation as mentioned in the publication</b>
Back propagation neural network based big data analytics for a stock market challenge	Ramesh V.P.	Communications in Statistics - Theory and Methods	2019		School of Mathematics & Computer Sciences, Central University of Tamil Nadu, Thiruvavur, India	
Sugar-benzohydrazide based phase selective gelators for marine oil spill recovery and removal of dye from polluted water	Mohan Das T.	Carbohydrate Research	2019		Department of Chemistry, School of Basic and Applied Sciences, Central University of Tamil Nadu (CUTN), Thiruvavur 610 005, India	
Magnetoelectric coupling in strained strontium titanate and Metglas based magnetoelectric trilayer	Saravanan V.,	Journal of Alloys and Compounds	2019		Department of Physics, Central University of Tamil Nadu, Thiruvavur, Tamilnadu 610 004, India;	
Zinc substituted MgH <sub>2</sub> - a potential material for hydrogen storage applications	Ravindran P.	International Journal of Hydrogen Energy	2019		Department of Physics, Central University of Tamil Nadu, Thiruvavur, Tamil Nadu 610101, India;	

A study on radio-loud interacting/non-interacting CMEs-associated SEPs and solar flares	Prakash O.,	Advances in Space Research	2019	Department of Physics, Central University of Tamilnadu, Thiruvarur, Tamil Nadu 610 005, India;
A novel InTiO thin film by thermal evaporation technique for high mobility/conductivity with tunable visible emissions	Sugumaran S.,	Optik	2019	Department of Physics, Central University of Tamil Nadu, Neelakudi, Thiruvarur, Tamilnadu 610 005, India;
Room temperature magnetoelectric properties of lead-free alkaline niobate based particulate composites	Saravanan K.V.,	Ceramics International	2019	Dept.of Physics, Central University of Tamil Nadu, Thiruvaroor, India;
Transcriptional and metabolic changes in the desiccation tolerant plant <i>Craterostigma plantagineum</i> during recurrent exposures to dehydration	Challabathula D.	Planta	2019	Department of Life Sciences, School of Basic and Applied Sciences, Central University of Tamil Nadu, Thiruvarur, India;
Novel Porous Polycatenated Iodo-Cadmium Coordination Polymer for Iodine Sorption and Electrical Conductivity Measurement	., Bhunia M.K.,	Crystal Growth and Design	2019	Department of Chemistry, Central University of Tamil Nadu, Thiruvarur, 610005, India;
Attainability of Maximum Work and the Reversible Efficiency of Minimally Nonlinear Irreversible Heat Engines	Ponmurugan M.	Journal of Non-Equilibrium Thermodynamics	2019	Department of Physics, School of Basic and Applied Sciences, Central University of Tamilnadu, Thiruvarur, Tamilnadu 610 005, India
Composition-dependent $x\text{Ba}(\text{Zr}_{0.2}\text{Ti}_{0.8})\text{O}_3-(1-x)(\text{Ba}_{0.7}\text{Ca}_{0.3})\text{TiO}_3$ bulk ceramics for	Sekhar K.C.,	Ceramics International	2019	Department of Physics, School of Basic and Applied Sciences,



high energy storage applications					Central University of Tamil Nadu, Thiruvapur, 610005, India; C
Substrate temperature induced effect on microstructure, optical and photocatalytic activity of ultrasonic spray pyrolysis deposited MoO <sub>3</sub> thin films	Alex K.V., Jayakrishnan A.R., Ajeesh Kumar S., Ibrahim A.S., Kamakshi K., Silva J.P.B., Sekhar K.C., Gomes M.J.M.	Materials Research Express	2019		Department of Physics, School of Basic and Applied Sciences, Central University of Tamil Nadu, Thiruvapur, 610 005, India;
Fluorescence control through vacuum induced coherences	Crispin H.B., Arun R.	Journal of Physics B: Atomic, Molecular and Optical Physics	2019		Department of Physics, School of Basic and Applied Sciences, Central University of Tamilnadu, Thiruvapur, Tamilnadu, 610005, India
A graph theoretic approach for modelling tiger corridor network in Central India-Eastern Ghats landscape complex, India	Shanu S., Idiculla J., Qureshi Q., Jhala Y., Aggarwal A., Dimri P., Bhattacharya S.	Ecological Informatics	2019		Department of Mathematics, School of Mathematics and Computer science, Central University of Tamil Nadu, Thiruvapur, Tamil Nadu 610101, India;
Characterization of VWF gene conversions causing von Willebrand disease	Ahmad F., Kannan M., Obser T., Budde U., Schneppenheim S., Saxena R., Schneppenheim R.	British Journal of Haematology	2019		Department of Life Sciences, School of Basic and Applied Sciences, Central University of Tamilnadu, Thiruvapur, India; Department of Pediatric Haematology and Oncology, University Medical Centre,

					Eppendorf, Hamburg, Germany; Medilys Laboratory Coagulation, Asklepios Hospital Altona, Hamburg, Germany; Department of Haematology, All India Institute of Medical Sciences, New Delhi, India
Synthesis of Aroylbenzoate-Based Push-Pull Molecules for OFET Applications	Devibala P., Dheepika R., Vadivelu P., Nagarajan S.	ChemistrySelect	2019		Department of Chemistry, Central University of Tamil Nadu Thiruvarur-610005, India
Large Negative Thermal Expansion Induced by Synergistic Effects of Ferroelectrostriction and Spin Crossover in PbTiO <sub>3</sub> -Based Perovskites	Pan Z., Chen J., Yu R., Patra L., Ravindran P., Sanson A., Milazzo R., Carnera A., Hu L., Wang L., Yamamoto H., Ren Y., Huang Q., Sakai Y., Nishikubo T., Ogata T., Fan X., Li Y., Li G., Hojo H., Azuma M., Xing X.	Chemistry of Materials	2019		Department of Physics, Central University of Tamil Nadu, Thiruvarur, Tamil Nadu, 610101, India;
Pd-Co alloy as an efficient recyclable catalyst for the reduction of hazardous 4-nitrophenol	Revathy T.A., Sivaranjani T., Boopathi A.A., Sampath S., Narayanan V., Stephen A.	Research on Chemical Intermediates	2019		Department of Materials Sciences, School of Technology, Central University of Tamil Nadu, Thiruvarur, India;
High-Performance Ferroelectric-Dielectric Multilayered Thin Films for Energy Storage Capacitors	Silva J.P.B., Silva J.M.B., Oliveira M.J.S., Weingärtner T., Sekhar K.C., Pereira M., Gomes M.J.M.	Advanced Functional Materials	2019		Centro de Física das Universidades do Minho e do Porto (CF-UM-UP), Campus de Gualtar, Braga, 4710-057, Portugal; IFIMUP and IN-Institute of Nanoscience and Nanotechnology, Departamento de Física

					e Astronomia, Faculdade de Ciências da, Universidade do Porto, Rua do Campo Alegre 687, Porto, 4169-007, Portugal; Institute for Applied Materials–Applied Materials Physics (IAM–AWP), Karlsruhe Institute of Technology, Kaiserstraße 12, Karlsruhe, 76131, Germany; Department of Physics, School of Basic and Applied Sciences, Central University of Tamil Nadu, Thiruvarur, Tamil Nadu 610 101, India
On symmetric linear games	Gokulraj S., Chandrashekar A.	Linear Algebra and Its Applications	2019		Department of Mathematics, Central University of Tamil Nadu, Thiruvarur, Tamil Nadu 610 005, India
Assessment of coastal aquaculture for India from Sentinel-1 SAR time series	Prasad K.A., Ottinger M., Wei C., Leinenkugel P.	Remote Sensing	2019		Department of Geography, School of Earth Sciences, Central University of Tamil Nadu, Thiruvarur, Tamil Nadu, 610005, India; German Remote Sensing Data Center, Earth Observation Center, German

					Aerospace Center, Wessling, 82234, Germany; Department of Remote Sensing, Institute of Geography and Geology, University of Wuerzburg, Wuerzburg, 97074, Germany	
Element- and Site-Specific Many-Body Interactions in Few-Layer MoS <sub>2</sub> During X-Ray Absorption Processes	Kamada G., Venugopal G., Kotsugi M., Ohkochi T., Suemitsu M., Fukidome H.	Physica Status Solidi (A) Applications and Materials Sciences	2019		Research Institute of Electrical Communication, Tohoku University, Katahira, Sendai 980-8577, Japan; Department of Materials Sciences, School of Technology, Central University of Tamil Nadu, Thiruvarur-610 005 Tamil Nadu, India; Japan Synchrotron Radiation Research Institute, 1-1-1, Kouto, Sayo, Hyogo 679-5198, Japan	
Global analysis of Repositories in 'Library and Information Science' in OpenDOAR	Dhanavandan S.	Library Philosophy and Practice	2019		Central University of Tamil Nadu, Thiruvarur, TN, 610 005, India	
Design, synthesis, characterization and gelation studies of sugar-oxadiazole based N-glycosylamines	Soundarajan K., Das T.M.	Trends in Carbohydrate Research	2019		Department of Chemistry, School of Basic and Applied Sciences, Central University of Tamil Nadu, Neelakudi	

					campus, Thiruvarur, 610 005, India	
Higher Order Uniformly Convergent Numerical Algorithm for Time-Dependent Singularly Perturbed Differential-Difference Equations	Ramesh V.P., Priyanga B.	Differential Equations and Dynamical Systems	2019		Department of Mathematics, Central University of Tamil Nadu, Thiruvarur, India; Department of Mathematics, Mathematics and Analytics Center of Excellence (MACoE), Central University of Tamil Nadu, Thiruvarur, India	
The Generalized S-Mesh Based Hybrid Algorithm for Singularly Perturbed Problems With Interior Layer	Ramesh V.P., Prithvi M.	Differential Equations and Dynamical Systems	2019		Mathematics and Analytics Center of Excellence (MACoE), Department of Mathematics, Central University of Tamil Nadu, Thiruvarur, India; Department of Mathematics, Central University of Tamil Nadu, Thiruvarur, India	
Staging the human in George Ryga's the ecstasy of rita Joe	Bhattacharya S.	Rupkatha Journal on Interdisciplinary Studies in Humanities	2019		Dept. of English Studies, Central University of Tamil Nadu, India	
Ag-doped ZnO nanorods embedded reduced graphene oxide nanocomposite	Khurshid F., Jeyavelan M., Hudson M.S.L., Nagarajan S.	Royal Society	2019		Department of Chemistry, United	

for photo-electrochemical applications		Open Science			States; Department of Physics, Central University of Tamil Nadu, Thiruvapur, India
Revitalisation of Ayurveda in Colonial Tamil region and Contributions of Pandit Srinivasa Narayana Iyengar - A Historical Perspective	Kanagarathinam D.V.	Journal of Ayurveda and Integrative Medicine	2019		Department of History, Central University of Tamil Nadu, Thiruvapur, Tamil Nadu, India
Uranyl-Bound Tetra-Dentate Non-Innocent Ligands: Prediction of Structure and Redox Behaviour Using Density Functional Theory	Arumugam K., Burton N.A.	ChemPhysChem	2019		School of Chemistry, The University of Manchester, Oxford Road, Manchester, United Kingdom; Current address: National Post Doctoral Fellow (NPDF) Simulation Center for Atomic and Nanoscale Materials (SCANMAT), Central University of Tamil Nadu, Thiruvapur, Tamil Nadu 610101, India
Barriers in information use - A Study among Ophthalmologists in India	Govindarajan R., Dhanavandan S.	Library Philosophy and Practice	2019		Aravind Eye Hospital and Postgraduate Institute of Ophthalmology, Madurai, Tamil Nadu, India; Central Library, Central University of Tamil Nadu, Thiruvapur, Tamil Nadu, India
Information evaluation behavior among	Govindarajan R., Dhanavandan S.	Library	2019		Aravind Eye Hospital

Ophthalmologists - A study in India		Philosophy and Practice			and Postgraduate Institute of Ophthalmology, Madurai, Tamil Nadu, India; Central Library, Central University of Tamil Nadu, Thiruvapur, Tamil Nadu, India
Open access publishing model: Preferences, opportunities, and challenges - an opinion survey among teaching staff in higher education Institutions In Tamilnadu	Govindarajan R., Dhanavandan S.	Library Philosophy and Practice	2019		Aravind Eye Hospital and Postgraduate Institute of Ophthalmology, Madurai, Tamil Nadu, India; Central Library, Central University of Tamil Nadu, Thiruvapur, Tamil Nadu, India
Globalization and Its Impact on Business Education in Emerging Economies: A Case of India	Bhatia S.M., Panneer S.	South Asian Journal of Human Resources Management	2019		Gitarattan International Business School, New Delhi, India; Department of Social Work, School of Social Sciences and Humanities, Central University of Tamil Nadu, Thiruvapur, Tamil Nadu, India
Amphoteric behavior of hydrogen (H+1 and H-1) in complex hydrides from van der Waals interaction-including ab initio calculations	Kiruthika S., Fjellvåg H., Ravindran P.	Journal of Materials Chemistry A	2019		Department of Physics, School of Basics and Applied Science, Central University of Tamil Nadu, Thiruvapur, India; Simulation Center for Atomic and Nanoscale MATerials (SCANMAT),

					Central University of Tamil Nadu, Thiruvapur, India; Center for Materials Sciences and Nanotechnology, Department of Chemistry, University of Oslo, Box 1033, Blindern, N0315, Norway
Spatio-temporal analysis of road traffic accidents in Indian large cities	Mahata D., Narzary P.K., Govil D.	Clinical Epidemiology and Global Health	2019		School of Earth Sciences, Department of Geography, Neelakudi Campus, Central University of Tamil Nadu, Kangalancherry, Thiruvapur, Tamil Nadu 610005, India; International Institute for Population Sciences (IIPS), Govandi Station Road, Deonar, Mumbai, 4000 88, India
Influence of hydrogen and halogen adsorption on the photocatalytic water splitting activity of C2N monolayer: A first-principles study	Ashwin Kishore M.R., Sjøstad A.O., Ravindran P.	Carbon	2019		Department of Physics, Central University of Tamil Nadu, Thiruvapur, Tamil Nadu 610101, India; Simulation Center for Atomic and Nanoscale MATerials, Central University of Tamil Nadu, Thiruvapur, Tamil Nadu 610101, India; Center for Materials Sciences and



					Nanotechnology, Department of Chemistry, University of Oslo, Box 1033 Blindern, Oslo, N-0315, Norway	
GIS-based spatial multi-criteria approach for characterization and prioritization of micro-watersheds: a case study of semi-arid watershed, South India	Balasubramani K., Gomathi M., Bhaskaran G., Kumaraswamy K.	Applied Geomatics	2019		Department of Geography, School of Earth Sciences, Central University of Tamil Nadu, Thiruvarur, 610 005, India; Department of Geography, Bharathidasan University, Tiruchirappalli, India; Department of Geography, University of Madras, Chennai, India	
The basis for reevaluating the reactivity of pyrite surfaces: Spin states and crystal field d-orbital splitting energies of bulk, terrace, edge, and corner Fe(II) ions	Arumugam K., Renock D., Becker U.	Physical Chemistry Chemical Physics	2019		Department of Earth and Environmental Sciences, University of Michigan, 1100 North University Avenue 2534 NUB, Ann Arbor, MI 48109-1005, United States; Department of Earth Sciences, Dartmouth College, Hanover, NH 03755, United States; National Post Doctoral Fellow, Simulation Center for Atomic and Nanoscale	

					MATerials (SCANMAT), Central University of Tamil Nadu, Thiruvapur, Tamil Nadu, 610101, India	
Isothermal and non-isothermal cold crystallization of tetrabenzofluorene (TBF) molecules	Boopathi A.A., Sampath S., Narasimhaswamy T.	New Journal of Chemistry	2019		Polymer Science and Technology Division, Council of Scientific and Industrial Research (CSIR), Central Leather Research Institute (CLRI), Adyar, Chennai, 600020, India; Academy of Scientific and Innovative Research (AcSIR), Ghaziabad, 201002, India; Department of Materials Sciences, School of Technology, Central University of Tamil Nadu, Thiruvapur, 610101, India	
Polymorphisms in the host CYP2C19 gene and antibiotic-resistance attributes of Helicobacter pylori isolates influence the outcome of triple therapy	Ram R.M., Teh X., Rajakumar T., Goh K.L., Leow A.H.R., Poh B.H., Mariappan V., Shankar E.M., Loke M.F., Vadivelu J.	Journal of Antimicrobial Chemotherapy	2019		Department of Medical Microbiology, Faculty of Medicine, University of Malaya, Kuala Lumpur, Malaysia; Department of Molecular Biology and Genetics, Faculty of Science, University of South Bohemia, Branis Ovska 31, Crossed D Sign EskCrossed D Sign Budejovice (Budweis),	

				Malaysia; Department of Medicine, Faculty of Medicine, University of Malaya, Kuala Lumpur, Malaysia; BP Diagnostic Centre SDN Bhd, Ipoh, Perak, Malaysia; Division of Infection Biology and Medical Microbiology, Department of Life Sciences, Central University of Tamil Nadu (CUTN), Thiruvavur, India; School of Life Sciences and Chemical Technology, Ngee Ann Polytechnic, Singapore, Singapore	
CPAF, HSP60 and MOMP antigens elicit pro-inflammatory cytokines production in the peripheral blood mononuclear cells from genital Chlamydia trachomatis-infected patients	Cheong H.C., Lee C.Y.Q., Cheok Y.Y., Shankar E.M., Sabet N.S., Tan G.M.Y., Movahed E., Yeow T.C., Sulaiman S., Wong W.F., Looi C.Y., Gupta R., Hassan J., Arulanandam B., AbuBakar S.	Immunobiology	2019	Department of Medical Microbiology, Faculty of Medicine, University of Malaya, Kuala Lumpur, 50603, Malaysia; Division of Infection Biology, Department of Life Sciences, School of Basic & Applied Sciences, Central University of Tamil Nadu, Thiruvavur, 610005, India; Faculty of Medicine, SEGi University, Kota	

					Damansara, Selangor 47810, Malaysia; Department of Obstetrics and Gynecology, Faculty of medicine, University of Malaya, Kuala Lumpur, 50603, Malaysia; School of Bioscience, Taylor's University, Subang Jaya, Selangor 47500, Malaysia; Center of Excellence in Infection Genomics, South Texas Center for Emerging Infectious Diseases, University of Texas at San Antonio, Texas, 78249, United States; Tropical Infectious Disease Research and Education Center, University of Malaya, Kuala Lumpur, 50603, Malaysia	
Gd <sub>2</sub> Te <sub>3</sub> : An antiferromagnetic semimetal	Muthuselvam I.P., Nehru R., Babu K.R., Saranya K., Kaul S.N., Chen S.-M., Chen W.-T., Liu Y., Guo G.-Y., Xiu F., Sankar R.	Journal of Physics Condensed Matter	2019		Department of Physics, School of Basic and Applied Sciences, Central University of Tamil Nadu, Thiruvavur, Tamil Nadu, 610005, India; Center for Condensed Matter Sciences, National Taiwan University,	

					Taipei, 10617, Taiwan; Institute of Physics, Academia Sinica, Taipei, 10617, Taiwan; Department of Chemical Engineering and Biotechnology, National Taipei University of Technology, Taipei, 10608, Taiwan; Department of Physics, National Taiwan University, Taipei, 10617, Taiwan; Physics Division, National Center for Theoretical Sciences, Hsinchu, 30013, Taiwan; School of Physics, University of Hyderabad, Central University PO, Hyderabad, Telangana, 500046, India; State Key Laboratory of Surface Physics, Department of Physics, Fudan University, Shanghai, 200433, China	
Tectono-morphological evolution of the Cauvery, Vaigai, and Thamirabarani River basins: Implications on timing, stratigraphic markers, relative roles of intrinsic and extrinsic factors, and transience of Southern Indian landscape	Ramkumar M., Santosh M., Rahaman S.M.A., Balasundareshwaran A., Balasubramani K., Mathew M.J., Sautter B., Siddiqui N., Usha K.P., Sreerhishya K., Prithiviraj G., Nagarajan R., Thirukumaran V., Menier D., Kumaraswamy K.	Geologica I Journal	2019		Department of Geology, Periyar University, Salem, India; School of Earth Sciences and Resources, China University of	

				<p>Geosciences Beijing, Beijing, China;  Department of Earth Sciences, University of Adelaide, Adelaide, SA, Australia;  Department of Geography, Bharathidasan University, Tiruchirapalli, India;  Department of Geography, Central University of Tamil Nadu, Thiruvarur, India;  School of Marine and Environmental Science, Universiti Malaysia Terengganu, Kuala Nerus Terengganu, Malaysia;  South-East Asia Carbonate Research Laboratory, Universiti Teknologi Petronas, Tronoh, Malaysia;  Department of Geosciences, Universiti Teknologi Petronas, Tronoh, Malaysia;  Department of Applied Geology, Curtin University, Miri, Malaysia;  Department of Geology, Government Arts College (Autonomous), Salem,</p>	
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					India; Laboratoire Géosciences Marines et Géomorphologie du Littoral, Université de Bretagne Sud, France
Discovery of buried historical structures in the Kaveri–Kollidam interfluvium, southern India	Ramkumar M., Kumaraswamy K., Balasubramani K., Abdul Rahaman S., Jegankumar R., Kumara Ganesh U., Manikandan E., Balasundareshwaran A., Prithiviraj G., Ayyanthurai R., Santosh M., Nagarajan R., Siddiqui N.A., Mathew M.J., Menier D., Ramachandran C., Sathyaseelan M., Sivakumar P.	Archaeological Prospection	2019		Department of Geology, Periyar University, Salem, India; Department of Geography, Bharathidasan University, Tiruchirappalli, India; Department of Geography, Central University of Tamil Nadu, Thiruvarur, India; Centre for Remote Sensing, Bharathidasan University, Tiruchirappalli, India; School of Earth Sciences and Resources, China University of Geosciences Beijing, Beijing, China; Department of Earth Sciences, University of Adelaide, Adelaide, SA, Australia; Department of Applied Geology, Curtin University, Miri, Sarawak, Malaysia; Department of Geosciences, Universiti

					Teknologi Petronas, Tronoh, Malaysia; Institute of Oceanography and Environment, Universiti Malaysia Terengganu, Kuala Nerus, Terengganu, Malaysia; South-east Asia Carbonate Research Laboratory, Universiti Teknologi Petronas, Tronoh, Malaysia; Université Européenne de Bretagne, GMGL DO, UMR CNRS, Vannes cedex, 6538, France	
Inter-sectoral Growth Linkages and Their Implications for Agriculture: Evidence from Indian States	Varkey R.S., Panda P.K.	Millennial Asia	2018		Central University of Tamil Nadu, Thiruvarur, Tamil Nadu, India; Department of Economics, Central University of Tamil Nadu, Thiruvarur, Tamil Nadu, India	
An a Priori Harmonic Mesh for Singularly Perturbed Boundary Value Problems	Ramesh V.P., Kadalbajoo M.K., Priyanga B., Prithvi M.	International Journal of Applied and Computational Mathematics	2018		Mathematics and Analytics Center of Excellence (MACoE), Department of Mathematics, Central University of Tamil Nadu, Thiruvarur, India; Department of Mathematics, Indian Institute of Technology	



					Kanpur, Kanpur, India; Department of Mathematics, Central University of Tamil Nadu, Thiruvarur, India
Kuttanad after the flood	Krishnanunni R., Menon V.A.	Economic and Political Weekly	2018		Department of Political Science and Public Administration, University of Madras, Chennai, India; Department of Media and Communication, Central University of Tamil Nadu, Neelakudi, India
Self-assembly of sugar based glyco- lipids: Gelation studies of partially protected D-glucose derivatives	Soundarajan K., Rajasekar M., Das T.M.	Materials Sciences and Engineeri ng C	2018		Department of Chemistry, School of Basic and Applied Sciences, Central University of Tamil Nadu (CUTN), Thiruvarur, 610 005, India; Department of Organic Chemistry, University of Madras, Guindy Campus, Chennai, 600025, India
Influence of L-threonine on the growth, structural, optical, mechanical and nonlinear optical properties of tartaric acid single crystal	Thilakavathi G., Kumar R.A., Gunasekaran V.	Materials Sciences- Poland	2018		G.R.D Center for Materials Research, PSG College of Technology, Coimbatore, 641004, India; Department of Physics, Dr. N.G.P. Institute of Technology, Coimbatore, 641048,

					India; Department of Physics, PSG College of Technology, Coimbatore, 641004, India; Department of Materials Sciences, Central University of Tamil Nadu, Thiruvavur, 610 005, India
Novel mixed cubic-rutile structured In <sub>2</sub> O <sub>3</sub> -TiO <sub>2</sub> composite nanoparticles (InTiO CNPs): Structure, morphology, photoluminescence and photocatalytic activity	Sugumaran S., Bellan C.S., Devaraj N.	Optik	2018		Nanotechnology Research Lab, Department of Physics, Kongunadu Arts and Science College, G-N Mills, Coimbatore, Tamil Nadu 641 029, India; Department of Physics, Bharathiar University, Coimbatore, Tamilnadu 641046, India; Department of Physics, Central University of Tamil Nadu (CUTN), Thiruvavur, 610 005, India
Anisotropic magnetotransport and extremely large magnetoresistance in NbAs <sub>2</sub> single crystals	Peramaiyan G., Sankar R., Muthuselvam I.P., Lee W.-L.	Scientific Reports	2018		Institute of Physics, Academia Sinica, Taipei, 10617, Taiwan; Center for Condensed Matter Sciences, National Taiwan University, Taipei, 10617, Taiwan; Department of Materials Sciences, Central University of Tamil

					Nadu, Neelakudi, Thiruvavarur, Tamil Nadu, 610005, India
Global, regional, and national age-sex-specific mortality for 282 causes of death in 195 countries and territories, 1980–2017: a systematic analysis for the Global Burden of Disease Study 2017	GBD 2017 Causes of Death Collaborators, Roth G.A., Abate D., Abate K.H., Abay S.M., Abbafati C., Abbasi N., Abbastabar H., Abd-Allah F., Abdela J., Abdelalim A., Abdollahpour I., Abdulkader R.S., Abebe H.T., Abebe M., Abebe Z., Abejie A.N., Abera S.F., Abil O.Z., Abraha H.N., Abrham A.R., Abu-Raddad L.J., Accrombessi M.M.K., Acharya D., Adamu A.A., Adebayo O.M., Adedoyin R.A., Adekanmbi V., Adetokunboh O.O., Adhena B.M., Adib M.G., Admasie A., Afshin A., Agarwal G., Agesa K.M., Agrawal A., Agrawal S., Ahmadi A., Ahmadi M., Ahmed M.B., Ahmed S., Aichour A.N., Aichour I., Aichour M.T.E., Akbari M.E., Akinyemi R.O., Akseer N., Al-Aly Z., Al-Eyadhy A., Al-Raddadi R.M., Alahdab F., Alam K., Alam T., Alebel A., Alene K.A., Aljanzadeh M., Alizadeh-Navaei R., Aljunid S.M., Alkerwi A., Alla F., Allebeck P., Alonso J., Altirkawi K., Alvis-Guzman N., Amare A.T., Aminde L.N., Amini E., Ammar W., Amoako Y.A., Anber N.H., Andrei C.L., Androudi S., Animut M.D., Anjomshoa M., Ansari H., Ansha M.G., Antonio C.A.T., Anwari P., Aremu O., Arnlov J., Arora A., Arora M., Artaman A., Aryal K.K., Asayesh H., Asfaw E.T., Ataro Z., Atique S., Atre S.R., Ausloos M., Avokpaho E.F.G.A., Awasthi A., Ayala Quintanilla B.P., Ayele Y., Ayer R., Azzopardi P.S., Babazadeh A., Bacha U., Badali H., Badawi A., Bali A.G., Ballesteros K.E., Banach M., Banerjee K., Bannick M.S., Banoub J.A.M.,	The Lancet	2018		

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	<p>Davitoiu D.V., Davletov K., De La Hoz F.P., De Neve J.-W., Degefa M.G., Degenhardt L., Degfie T.T., Deiparine S., Demoz G.T., Demtsu B.B., Denova-Gutierrez E., Deribe K., Dervenis N., Des Jarlais D.C., Dessie G.A., Dey S., Dharmaratne S.D., Dicker D., Dinberu M.T., Ding E.L., Dirac M.A., Djalalinia S., Dokova K., Doku D.T., Donnelly C.A., Dorsey E.R., Doshi P.P., Douwes-Schultz D., Doyle K.E., Driscoll T.R., Dubey M., Dubljanin E., Duken E.E., Duncan B.B., Duraes A.R., Ebrahimi H., Ebrahimpour S., Edessa D., Edvardsson D., Eggen A.E., El Bcheraoui C., El Sayed Zaki M., El-Khatib Z., Elkout H., Ellingsen C.L., Endres M., Endries A.Y., Er B., Erskine H.E., Eshrati B., Eskandarieh S., Esmaeili R., Esteghamati A., Fakhar M., Fakhim H., Faramarzi M., Fareed M., Farhadi F., Farinha C.S.E., Faro A., Farvid M.S., Farzadfar F., Farzaei M.H., Feigin V.L., Feigl A.B., Fentahun N., Fereshtehnejad S.-M., Fernandes E., Fernandes J.C., Ferrari A.J., Feyissa G.T., Filip I., Finegold S., Fischer F., Fitzmaurice C., Foigt N.A., Foreman K.J., Fornari C., Frank T.D., Fukumoto T., Fuller J.E., Fullman N., Furst T., Furtado J.M., Futran N.D., Gallus S., Garcia-Basteiro A.L., Garcia-Gordillo M.A., Gardner W.M., Gebre A.K., Gebrehiwot T.T., Gebremedhin A.T., Gebremichael B., Gebremichael T.G., Gelano T.F., Geleijnse J.M., Genova-Maleras R., Geramo Y.C.D., Gething P.W., Gezae K.E., Ghadami M.R., Ghadimi R., Ghasemi Falavarjani K., Ghasemi-Kasman M., Ghimire M., Gibney K.B., Gill P.S., Gill T.K., Gillum</p>					
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	<p>R.F., Ginawi I.A., Giroud M., Giussani G., Goenka S., Goldberg E.M., Goli S., Gomez-Dantes H., Gona P.N., Gopalani S.V., Gorman T.M., Goto A., Goulart A.C., Gnedovskaya E.V., Grada A., Grosso G., Gugnani H.C., Guimaraes A.L.S., Guo Y., Gupta P.C., Gupta R., Gupta R., Gupta T., Gutierrez R.A., Gyawali B., Haagsma J.A., Hafezi-Nejad N., Hagos T.B., Hailegiyorgis T.T., Hailu G.B., Haj-Mirzaian A., Haj-Mirzaian A., Hamadeh R.R., Hamidi S., Handal A.J., Hankey G.J., Harb H.L., Harikrishnan S., Haro J.M., Hasan M., Hassankhani H., Hassen H.Y., Havmoeller R., Hay R.J., Hay S.I., He Y., Hedayatizadeh-Omran A., Hegazy M.I., Heibati B., Heidari M., Hendrie D., Henok A., Henry N.J., Herteliu C., Heydarpour F., Heydarpour P., Heydarpour S., Hibstu D.T., Hoek H.W., Hole M.K., Homaie Rad E., Hoogar P., Hosgood H.D., Hosseini S.M., Hosseinzadeh M., Hostiuc M., Hostiuc S., Hotez P.J., Hoy D.G., Hsiao T., Hu G., Huang J.J., Hussein A., Hussen M.M., Hutfless S., Idrisov B., Ilesanmi O.S., Iqbal U., Irvani S.S.N., Irvine C.M.S., Islam N., Islam S.M.S., Islami F., Jacobsen K.H., Jahangiry L., Jahanmehr N., Jain S.K., Jakovljevic M., Jalu M.T., James S.L., Javanbakht M., Jayatilleke A.U., Jeemon P., Jenkins K.J., Jha R.P., Jha V., Johnson C.O., Johnson S.C., Jonas J.B., Joshi A., Jozwiak J.J., Jungari S.B., Jurisson M., Kabir Z., Kadel R., Kahsay A., Kalani R., Karami M., Karami Matin B., Karch A., Karema C., Karimi-Sari H., Kasaeian A., Kassa D.H., Kassa G.M., Kassa T.D., Kassebaum N.J., Katikireddi S.V., Kaul</p>					
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	<p>A., Kazemi Z., Kazemi Karyani A., Kazi D.S., Kefale A.T., Keiyoro P.N., Kemp G.R., Kengne A.P., Keren A., Kesavachandran C.N., Khader Y.S., Khafaei B., Khafaie M.A., Khajavi A., Khalid N., Khalil I.A., Khan E.A., Khan M.S., Khan M.A., Khang Y.-H., Khater M.M., Khoja A.T., Khosravi A., Khosravi M.H., Khubchandani J., Kiadaliri A.A., Kibret G.D., Kidanemariam Z.T., Kiirithio D.N., Kim D., Kim Y.-E., Kim Y.J., Kimokoti R.W., Kinfu Y., Kisa A., Kissimova-Skarbek K., Kivimaki M., Knudsen A.K.S., Kocarnik J.M., Kochhar S., Kokubo Y., Kolola T., Kopec J.A., Koul P.A., Koyanagi A., Kravchenko M.A., Krishan K., Kuate Defo B., Kucuk Bicer B., Kumar G.A., Kumar M., Kumar P., Kutz M.J., Kuzin I., Kyu H.H., Lad D.P., Lad S.D., Lafranconi A., Lal D.K., Laloo R., Lallukka T., Lam J.O., Lami F.H., Lansingh V.C., Lansky S., Larson H.J., Latifi A., Lau K.M.-M., Lazarus J.V., Lebedev G., Lee P.H., Leigh J., Leili M., Leshargie C.T., Li S., Li Y., Liang J., Lim L.-L., Lim S.S., Limenih M.A., Linn S., Liu S., Liu Y., Lodha R., Lonsdale C., Lopez A.D., Lorkowski S., Lotufo P.A., Lozano R., Lunevicius R., Ma S., Macarayan E.R.K., Mackay M.T., MacLachlan J.H., Maddison E.R., Madotto F., Magdy Abd El Razek H., Magdy Abd El Razek M., Maghavani D.P., Majdan M., Majdzadeh R., Majeed A., Malekzadeh R., Malta D.C., Manda A.-L., Mandarano-Filho L.G., Manguerra H., Mansournia M.A., Mapoma C.C., Marami D., Maravilla J.C., Marcenes W., Marczak L., Marks A., Marks G.B., Martinez G., Martins-Melo F.R., Martopullo I., Marz W., Marzan</p>					
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	<p>M.B., Masci J.R., Massenburg B.B., Mathur M.R., Mathur P., Matzopoulos R., Maulik P.K., Mazidi M., McAlinden C., McGrath J.J., McKee M., McMahan B.J., Mehata S., Mehndiratta M.M., Mehrotra R., Mehta K.M., Mehta V., Mekonnen T.C., Melese A., Melku M., Memiah P.T.N., Memish Z.A., Mendoza W., Mengistu D.T., Mengistu G., Mensah G.A., Mereta S.T., Meretoja A., Meretoja T.J., Mestrovic T., Mezgebe H.B., Miazgowski B., Miazgowski T., Milliar A.I., Miller T.R., Miller-Petrie M.K., Mini G.K., Mirabi P., Mirarefin M., Mirica A., Mirrakhimov E.M., Misganaw A.T., Mitiku H., Moazen B., Mohammad K.A., Mohammadi M., Mohammadifard N., Mohammed M.A., Mohammed S., Mohan V., Mokdad A.H., Molokhia M., Monasta L., Moradi G., Moradi-Lakeh M., Moradinazar M., Moraga P., Morawska L., Velasquez I.M., Morgado-Da-Costa J., Morrison S.D., Moschos M.M., Mouodi S., Mousavi S.M., Muchie K.F., Mueller U.O., Mukhopadhyay S., Muller K., Mumford J.E., Musa J., Musa K.I., Mustafa G., Muthupandian S., Nacheha J.B., Nagel G., Naheed A., Nahvijou A., Naik G., Nair S., Najafi F., Naldi L., Nam H.S., Nangia V., Nansseu J.R., Nascimento B.R., Natarajan G., Neamati N., Negoï I., Negoï R.I., Neupane S., Newton C.R.J., Ngalesoni F.N., Ngunjiri J.W., Nguyen A.Q., Nguyen G., Nguyen H.T., Nguyen H.T., Nguyen L.H., Nguyen M., Nguyen T.H., Nichols E., Ningrum D.N.A., Nirayo Y.L., Nixon M.R., Nolutshungu N., Nomura S., Norheim O.F., Noroozi M., Norrving B., Noubiap J.J., Nouri H.R., Shiadeh</p>					
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	<p>M.N., Nowroozi M.R., Nyasulu P.S., Odell C.M., Ofori-Asenso R., Ogbo F.A., Oh I.H., Oladimeji O., Olagunju A.T., Olivares P.R., Olsen H.E., Olusanya B.O., Olusanya J.O., Ong K.L., Ong S.K.S., Oren E., Orpana H.M., Ortiz A., Ortiz J.R., Otstavnov S.S., Overland S., Owolabi M.O., Ozdemir R., Mahesh P.A., Pacella R., Pakhale S., Pakhare A.P., Pakpour A.H., Pana A., Panda-Jonas S., Pandian J.D., Parisi A., Park E.-K., Parry C.D.H., Parsian H., Patel S., Pati S., Patton G.C., Paturi V.R., Paulson K.R., Pereira A., Pereira D.M., Perico N., Pesudovs K., Petzold M., Phillips M.R., Piel F.B., Pigott D.M., Pillay J.D., Pirsahab M., Pishgar F., Polinder S., Postma M.J., Pourshams A., Poustchi H., Pujar A., Prakash S., Prasad N., Purcell C.A., Qorbani M., Quintana H., Quistberg D.A., Rade K.W., Anwar Rafay A.R., Rahim F., Rahimi K., Rahimi-Movaghar A., Rahman M., Rahman M.H.U., Rahman M.A., Rai R.K., Rajsic S., Ram U., Ranabhat C.L., Ranjan P., Rao P.C., Rawaf D.L., Rawaf S., Razo-Garcia C., Reddy K.S., Reiner R.C., Reitsma M.B., Remuzzi G., Renzaho A.M.N., Resnikoff S., Rezaei S., Rezaeian S., Rezai M.S., Riahi S.M., Ribeiro A.L.P., Rios-Blancas M.J., Roba K.T., Roberts N.L.S., Robinson S.R., Roever L., Ronfani L., Roshandel G., Rostami A., Rothenbacher D., Roy A., Rubagotti E., Sachdev P.S., Saddik B., Sadeghi E., Safari H., Safdarian M., Safi S., Safiri S., Sagar R., Sahebkar A., Sahraian M.A., Salam N., Salama J.S., Salamati P., De Freitas Saldanha R., Saleem Z., Salimi Y., Salvi S.S., Salz I., Sambala E.Z., Samy A.M.,</p>					
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	<p>Sanabria J., Dolores Sanchez-Nino M., Santomauro D.F., Santos I.S., Santos J.V., Santric Milicevic M.M., Jose B.P.S., Sarker A.R., Sarmiento-Suarez R., Sarrafzadegan N., Sartorius B., Sarvi S., Sathian B., Satpathy M., Sawant A.R., Sawhney M., Saxena S., Sayyah M., Schaeffner E., Schmidt M.I., Schneider I.J.C., Schottker B., Schutte A.E., Schwebel D.C., Schwendicke F., Scott J.G., Sekerija M., Sepanlou S.G., Servan-Mori E., Seyedmousavi S., Shabaninejad H., Shackelford K.A., Shafieesabet A., Shahbazi M., Shaheen A.A., Shaikh M.A., Shams-Beyranvand M., Shamsi M., Shamsizadeh M., Sharafi K., Sharif M., Sharif-Alhoseini M., Sharma R., She J., Sheikh A., Shi P., Shiferaw M.S., Shigematsu M., Shiri R., Shirkoohi R., Shiue I., Shokraneh F., Shrime M.G., Si S., Siabani S., Siddiqi T.J., Sigfusdottir I.D., Sigurvinsdottir R., Silberberg D.H., Santos Silva D.A., Silva J.P., Da Silva N.T., Silveira D.G.A., Singh J.A., Singh N.P., Singh P.K., Singh V., Sinha D.N., Sliwa K., Smith M., Sobaih B.H., Sobhani S., Sobngwi E., Soneji S.S., Soofi M., Sorensen R.J.D., Soriano J.B., Soyiri I.N., Sposato L.A., Sreeramareddy C.T., Srinivasan V., Stanaway J.D., Starodubov V.I., Stathopoulou V., Stein D.J., Steiner C., Stewart L.G., Stokes M.A., Subart M.L., Sudaryanto A., Sufiyan M.B., Sur P.J., Sutradhar I., Sykes B.L., Sylaja P.N., Sylte D.O., Szoeki C.E.I., Tabares-Seisdedos R., Tabuchi T., Tadakamadla S.K., Takahashi K., Tandon N., Tassew S.G., Taveira N., Tehrani-Banihashemi A., Tekalign T.G., Tekle M.G., Temsah M.-H., Temsah O., Terkawi</p>					
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	<p>A.S., Teshale M.Y., Tessema B., Tessema G.A., Thankappan K.R., Thirunavukkarasu S., Thomas N., Thrift A.G., Thurston G.D., Tilahun B., To Q.G., Tobe-Gai R., Tonelli M., Topor-Madry R., Torre A.E., Tortajada-Girbes M., Touvier M., Tovani-Palone M.R., Tran B.X., Tran K.B., Tripathi S., Troeger C.E., Truelsen T.C., Truong N.T., Tsadik A.G., Tsoi D., Tudor Car L., Murat Tuzcu E., Tyrovolas S., Ukwaja K.N., Ullah I., Undurraga E.A., Updike R.L., Usman M.S., Uthman O.A., Uzun S.B., Vaduganathan M., Vaezi A., Vaidya G., Valdez P.R., Varavikova E., Vasankari T.J., Venketasubramanian N., Villafaina S., Violante F.S., Vladimirov S.K., Vlassov V., Vollset S.E., Vos T., Wagner G.R., Wagnev F.S., Waheed Y., Wallin M.T., Walson J.L., Wang Y., Wang Y.-P., Wassie M.M., Weiderpass E., Weintraub R.G., Weldegebreal F., Weldegwergs K.G., Werdecker A., Werkneh A.A., West T.E., Westerman R., Whiteford H.A., Widecka J., Wilner L.B., Wilson S., Winkler A.S., Wiysonge C.S., Wolfe C.D.A., Wu S., Wu Y.-C., Wyper G.M.A., Xavier D., Xu G., Yadgir S., Yadollahpour A., Yahyazadeh Jabbari S.H., Yakob B., Yan L.L., Yano Y., Yaseri M., Yasin Y.J., Yentur G.K., Yeshaneh A., Yimer E.M., Yip P., Yirsaw B.D., Yisma E., Yonemoto N., Yonga G., Yoon S.-J., Yotebieng M., Younis M.Z., Yousefifard M., Yu C., Zadnik V., Zaidi Z., Zaman S.B., Zamani M., Zare Z., Zeleke A.J., Zenebe Z.M., Zhang A.L., Zhang K., Zhou M., Zodpey S., Zuhlke L.J., Naghavi M., Murray C.J.L.</p>				
Measuring progress from 1990 to 2017	Lozano R., Fullman N., Abate D., Abay S.M.,	The	2018		

<p>and projecting attainment to 2030 of the health-related Sustainable Development Goals for 195 countries and territories: a systematic analysis for the Global Burden of Disease Study 2017</p>	<p>Abbafati C., Abbasi N., Abbastabar H., Abd-Allah F., Abdela J., Abdelalim A., Abdel-Rahman O., Abdi A., Abdollahpour I., Abdulkader R.S., Abebe N.D., Abebe Z., Abejie A.N., Abera S.F., Abil O.Z., Aboyans V., Abraha H.N., Abrham A.R., Abu-Raddad L.J., Abu-Rmeileh N.M., Abyu G.Y., Accrombessi M.M.K., Acharya D., Acharya P., Adamu A.A., Adebayo O.M., Adedeji I.A., Adedoyin R.A., Adekanmbi V., Adetokunboh O.O., Adhena B.M., Adhikari T.B., Adib M.G., Adou A.K., Adsuar J.C., Afarideh M., Afshari M., Afshin A., Agarwal G., Aghayan S.A., Agius D., Agrawal A., Agrawal S., Ahmadi A., Ahmadi M., Ahmadi H., Ahmed M.B., Ahmed S., Akalu T.Y., Akanda A.S., Akbari M.E., Akibu M., Akinyemi R.O., Akinyemiju T., Akseer N., Alahdab F., Al-Aly Z., Alam K., Alam T., Albujeer A., Alebel A., Alene K.A., Al-Eyadhy A., Alhabib S., Ali R., Alijanzadeh M., Alizadeh-Navaei R., Aljunid S.M., Alkerwi A., Alla F., Allebeck P., Allen C.A., Almasi A., Al-Maskari F., Al-Mekhlafi H.M., Alonso J., Al-Raddadi R.M., Alsharif U., Altirkawi K., Alvis-Guzman N., Amare A.T., Amenu K., Amini E., Ammar W., Anber N.H., Anderson J.A., Andrei C.L., Androudi S., Animut M.D., Anjomshoa M., Ansari H., Ansariadi A., Ansha M.G., Antonio C.A.T., Anwari P., Appiah L.T., Aremu O., Areri H.A., Ärnlöv J., Arora M., Aryal K.K., Asayesh H., Asfaw E.T., Asgedom S.W., Asghar R.J., Assadi R., Ataro Z., Atique S., Atre S.R., Atteraya M.S., Ausloos M., Avila-Burgos L., Avokpaho E.F.G.A., Awasthi A., Quintanilla B.P.A., Ayele H.T., Ayele Y., Ayer</p>	<p>Lancet</p>				
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	<p>R., Azarpazhooh M.R., Azzopardi P.S., Azzopardi-Muscat N., Babalola T.K., Babazadeh A., Badali H., Badawi A., Balakrishnan K., Bali A.G., Banach M., Banerjee A., Banoub J.A.M., Banstola A., Barac A., Barboza M.A., Barker-Collo S.L., Bärnighausen T.W., Barrero L.H., Barthelemy C.M., Bassat Q., Basu A., Basu S., Battista R.J., Baune B.T., Baynes H.W., Bazargan-Hejazi S., Bedi N., Beghi E., Behzadifar M., Behzadifar M., Béjot Y., Bekele B.B., Belachew A.B., Belay A.G., Belay S.A., Belay Y.A., Bell M.L., Bello A.K., Bennett D.A., Bensenor I.M., Benzian H., Berhane A., Berhe A.K., Berman A.E., Bernabe E., Bernstein R.S., Bertolacci G.J., Beuran M., Beyranvand T., Bhala N., Bhalla A., Bhansali A., Bhattarai S., Bhaumik S., Bhutta Z.A., Biadgo B., Biehl M.H., Bijani A., Bikbov B., Bililign N., Sayeed M.S.B., Birlik S.M., Birungi C., Bisanzio D., Biswas T., Bitew H., Bizuneh H., Bjertness E., Bobasa E.M., Boufous S., Bourne R., Bozorgmehr K., Bragazzi N.L., Brainin M., Brant L.C., Brauer M., Brazinova A., Breitborde N.J.K., Briant P.S., Britton G., Brugha T., Bukhman G., Busse R., Butt Z.A., Cahuana-Hurtado L., Callender C.S.K.H., Campos-Nonato I.R., Rincon J.C.C., Cano J., Car J., Car M., Cárdenas R., Carrero J.J., Carter A., Carvalho F., Castañeda-Orjuela C.A., Rivas J.C., Castro F., Causey K., Çavlin A., Cercy K.M., Cerin E., Chaiah Y., Chalek J., Chang H.-Y., Chang J.-C., Chattopadhyay A., Chattu V.K., Chaturvedi P., Chiang P.P.-C., Chin K.L., Chisumpa V.H., Chitheer A., Choi</p>					
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	<p>J.-Y.J., Chowdhury R., Christensen H., Christopher D.J., Chung S.-C., Cicuttini F.M., Ciobanu L.G., Cirillo M., Claro R.M., Claßen T.K.D., Cohen A.J., Collado-Mateo D., Cooper C., Cooper L.T., Cornaby L., Cortinovis M., Costa M., Cousin E., Cromwell E.A., Crowe C.S., Cunningham M., Daba A.K., Dadi A.F., Dandona L., Dandona R., Dang A.K., Dargan P.I., Daryani A., Das S.K., Das Gupta R., Das Neves J., Dasa T.T., Dash A.P., Davis A.C., Davitoiu D.V., Davletov K., Dayama A., De Courten B., De Leo D., Neve J.W.D., De Steur H., Degefa M.G., Degenhardt L., Degfie T.T., Deiparine S., Dellavalle R.P., Demoz G.T., Demtsu B., Denova-Gutiérrez E., Deribe K., Dervenis N., Dessie G.A., Dey S., Dharmaratne S.D., Dhimal M., Dicker D., Dinberu M.T., Ding E.L., Djalalinia S., Do H.P., Dokova K., Doku D.T., Douwes-Schultz D., Driscoll T.R., Duan L., Dubey M., Dubljanin E., Duken E.E., Duncan B.B., Duraes A.R., Ebrahimpour S., Edvardsson D., El Bcheraoui C., Eldrenkamp E., El-Khatib Z., Elyazar I.R.F., Enayati A., Endries A.Y., Eshrati B., Eskandarieh S., Esteghamati A., Esteghamati S., Estep K., Fakhari M., Fakhim H., Fanzo J., Faramarzi M., Fareed M., Farhadi F., Farid T.A., Farinha C.S.E.S., Farioli A., Faro A., Farvid M.S., Farzadfar F., Farzaei M.H., Farzam H., Fazaeli A.A., Fazeli M.S., Feigin V.L., Feigl A.B., Fekadu W., Feldman R., Fentahun N., Fereshtehnejad S.-M., Fernandes E., Fernandes J.C., Feyissa G.T., Fijabi D.O., Filip I., Finegold S., Finger J.D., Fischer F., Fitzmaurice C., Flor L.S., Foigt</p>					
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	<p>Hostiuc S., Hotez P.J., Hoy D.G., Hsairi M., Hsiao T., Hu G., Huang J.J., Hughes C., Huynh C.K., Igumbor E.U., Ikeda C.T., Ilesanmi O.S., Iqbal U., Irvani S.S.N., Irvine C.M.S., Islam S.M.S., Islami F., Ivers R.Q., Izadi N., Jacobsen K.H., Jahangiry L., Jahanmehr N., Jain S.K., Jakovljevic M., Jalu M.T., Jamal A.A., James S.L., Jassal S.K., Javanbakht M., Jayatilleke A.U., Jeemon P., Jha R.P., Jha V., Ji J.S., Johnson C.O., Johnson S.C., Jonas J.B., Jonnagaddala J., Shushtari Z.J., Joshi A., Jozwiak J.J., Jungari S.B., Jürisson M., Madhanraj K., Kabir Z., Kadel R., Kahsay A., Kahssay M., Kalani R., Kapil U., Karami M., Martin B.K., Karanikolos M., Karimi N., Karimi S.M., Karimi-Sari H., Kasaeian A., Kassa D.H., Kassa G.M., Kassa T.D., Kassa Z.Y., Kassebaum N.J., Katikireddi S.V., Kaul A., Kawakami N., Kazemi Z., Karyani A.K., Kazi D.S., Prakash K.C., Kebede S., Keiyoro P.N., Kemmer L., Kemp G.R., Kengne A.P., Keren A., Kesavachandran C.N., Khader Y.S., Khafaei B., Khafaie M.A., Khajavi A., Khalid N., Khalil I.A., Khan E.A., Khan M.S., Khan M.A., Khang Y.-H., Khanna T., Khater M.M., Khatony A., Khazaeipour Z., Khazaie H., Khoja A.T., Khosravi A., Khosravi M.H., Khubchandani J., Kiadaliri A.A., Kiarie H.W., Kibret G.D., Kiirithio D.N., Kim D., Kim J.Y., Kim Y.-E., Kim Y.J., Kimokoti R.W., Kinfu Y., Kinra S., Kisa A., Kissimova-Skarbek K., Kissoon N., Kivimäki M., Kocarnik J.M., Kochhar S., Kokubo Y., Kolola T., Kopec J.A., Kosek M.N., Kosen S., Koul P.A., Koyanagi A., Kravchenko M.A., Krishan K., Krohn K.J., Defo</p>					
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	<p>Soyiri I.N., Spinelli A., Sposato L.A., Sreeramareddy C.T., Srinivasan R.G., Srinivasan V., Stanaway J.D., Starodubov V.I., Stathopoulou V., Steckling N., Stein D.J., Stewart L.G., Stockfelt L., Stokes M.A., Straif K., Sudaryanto A., Sufiyan M.B., Sunguya B.F., Sur P.J., Sutradhar I., Sykes B.L., Sylaja P.N., Sylte D.O., Szoeki C.E.I., Tabarés-Seisdedos R., Tabuchi T., Tadakamadla S.K., Tamirat K.S., Tandon N., Tanser F.C., Tassew A.A., Tassew S.G., Tavakkoli M., Taveira N., Tawye N.Y., Tehrani-Banihashemi A., Tekalign T.G., Tekle M.G., Temesgen H., Temsah M.-H., Temsah O., Terkawi A.S., Teshale M.Y., Teshome D.F., Tessema B., Teweldemedhin M., Thakur J.S., Thankappan K.R., Theis A., Thirunavukkarasu S., Thomas L.A., Thomas N., Thomson A.J., Thrift A.G., Tilahun B., To Q.G., Tobe-Gai R., Tonelli M., Topor-Madry R., Torre A.E., Tortajada-Girbés M., Tovani-Palone M.R., Towbin J.A., Tran B.X., Tran K.B., Tran T.T., Tripathy S.P., Troeger C.E., Truelsen T.C., Tsadik A.G., Car L.T., Tuzcu E.M., Tymeson H.D., Ukwaja K.N., Ullah I., Updike R.L., Usman M.S., Uthman O.A., Vaduganathan M., Vaezi A., Vaidya G., Valdez P.R., Van Donkelaar A., Varavikova E., Vasankari T.J., Venketasubramanian N., Vidavalur R., Villafaina S., Violante F.S., Vladimirov S.K., Vlassov V., Vollmer S., Vollset S.E., Vos T., Vosoughi K., Vujcic I.S., Wagner G.R., Wagnew F.S., Waheed Y., Walson J.L., Wang Y., Wang Y.-P., Wassie M.M., Weiderpass E., Weintraub R.G., Weiss J., Weldegebreal F., Weldegwergs K.G.,</p>					
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<p>Phase transitions in a linear self-interacting polymer on FCC lattice using flat energy interacting growth walk algorithm</p>	<p>Jaleel A.A.A., Ponmurugan M., Rajesh R., Satyanarayana S.V.M.</p>	<p>Journal of Statistical Mechanics: Theory and Experiment</p>	<p>2018</p>	<p>Department of Physics, Pondicherry University, Puducherry, India; Department of Physics, Central University of Tamilnadu, Thiruvarur, Tamilnadu, 610005, India; Institute of Mathematical Sciences, C.I.T. Campus, Taramani, Chennai, 600113, India; Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai, 400094, India</p>	

<p>T-cell exhaustion in chronic infections: Reversing the state of exhaustion and reinvigorating optimal protective immune responses</p>	<p>Saeidi A., Zandi K., Cheok Y.Y., Saeidi H., Wong W.F., Lee C.Y.Q., Cheong H.C., Yong Y.K., Larsson M., Shankar E.M.</p>	<p>Frontiers in Immunology</p>	<p>2018</p>	<p>Department of Medical Microbiology, Faculty of Medicine, University of Malaya, Kuala Lumpur, Malaysia; Center of Excellence for Research in AIDS, University of Malaya, Kuala Lumpur, Malaysia; Department of Pediatrics, School of Medicine, Emory University, Atlanta, GA, United States; Department of Biomedical Sciences, Faculty of Medicine and Health Sciences, University of Putra Malaysia, Selangor, Malaysia; Laboratory Center, Xiamen University Malaysia, Sepang, Malaysia; Division of Molecular Virology, Department of Clinical and Experimental Medicine, Linköping University, Linköping, Sweden; Division of Infection Biology and Medical Microbiology, Department of Life Sciences, School of Life Sciences, Central</p>	
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					University of Tamil Nadu, Thiruvavur, India	
Population and fertility by age and sex for 195 countries and territories, 1950–2017: a systematic analysis for the Global Burden of Disease Study 2017	Murray C.J.L., Callender C.S.K.H., Kulikoff X.R., Srinivasan V., Abate D., Abate K.H., Abay S.M., Abbasi N., Abbastabar H., Abdela J., Abdelalim A., Abdel-Rahman O., Abdi A., Abdoli N., Abdollahpour I., Abdulkader R.S., Abebe H.T., Abebe M., Abebe Z., Abebo T.A., Abejie A.N., Aboyans V., Abraha H.N., Abreu D.M.X., Abrham A.R., Abu-Raddad L.J., Abu-Rmeileh N.M.E., Accrombessi M.M.K., Acharya P., Adamu A.A., Adebayo O.M., Adedeji I.A., Adekanmbi V., Adetokunboh O.O., Adhena B.M., Adhikari T.B., Adib M.G., Adou A.K., Adsuar J.C., Afarideh M., Afshin A., Agarwal G., Agesa K.M., Aghayan S.A., Agrawal S., Ahmadi A., Ahmadi M., Ahmed M.B., Ahmed S., Aichour A.N., Aichour I., Aichour M.T.E., Akanda A.S., Akbari M.E., Akibu M., Akinyemi R.O., Akinyemiju T., Akseer N., Alahdab F., Al-Aly Z., Alam K., Alebel A., Aleman A.V., Alene K.A., Al-Eyadhy A., Ali R., Alijanzadeh M., Alizadeh-Navaei R., Aljunid S.M., Alkerwi A., Alla F., Allebeck P., Almasi A., Alonso J., Al-Raddadi R.M., Alsharif U., Altirkawi K., Alvis-Guzman N., Amare A.T., Ammar W., Anber N.H., Andrei C.L., Androudi S., Anmut M.D., Ansari H., Ansha M.G., Antonio C.A.T., Appiah S.C.Y., Aremu O., Areri H.A., Arian N., Ärnlöv J., Artaman A., Aryal K.K., Asayesh H., Asfaw E.T., Asgedom S.W., Assadi R., Atey T.M.M., Atique S., Atteraya M.S., Ausloos M., Avokpaho E.F.G.A., Awasthi A., Ayala Quintanilla B.P., Ayele Y., Ayer R., Ayuk T.B., Azzopardi P.S., Babalola T.K., Babazadeh A.,	The Lancet	2018			



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	<p>Neve J.-W., Degefa M.G., Degenhardt L., Degfie T.T., Deiparine S., Demoz G.T., Demtsu B., Denova-Gutiérrez E., Deribe K., Dervenis N., Des Jarlais D.C., Dessie G.A., Dharmaratne S.D., Dhimal M., Dicker D., Ding E.L., Dinsa G.D., Djalalinia S., Do H.P., Dokova K., Doku D.T., Dolan K.A., Doyle K.E., Driscoll T.R., Dubey M., Dubljanin E., Duken E.E., Duraes A.R., Ebrahimpour S., Edvardsson D., El Bcheraoui C., El-Khatib Z., Elyazar I.R., Enayati A., Endries A.Y., Ermakov S.P., Eshrati B., Eskandarieh S., Esmaeili R., Esteghamati A., Esteghamati S., Estep K., Fakhim H., Farag T., Faramarzi M., Fareed M., SáFarinha C.S.E., Faro A., Farvid M.S., Farzadfar F., Farzaei M.H., Fay K.A., Fazeli M.S., Feigin V.L., Feigl A.B., Feizy F., Fenny A.P., Fentahun N., Fereshtehnejad S.-M., Fernandes E., Feyissa G.T., Filip I., Finegold S., Fischer F., Flor L.S., Foigt N.A., Foreman K.J., Fornari C., Fürst T., Fukumoto T., Fuller J.E., Fullman N., Gakidou E., Gallus S., Gamkrelidze A., Ganji M., Gankpe F.G., Garcia G.M., Garcia-Gordillo M.Á., Gebre A.K., Gebre T., Gebregergs G.B., Gebrehiwot T.T., Gebremedhin A.T., Gelano T.F., Gelaw Y.A., Geleijnse J.M., Genova-Maleras R., Gething P., Gezae K.E., Ghadami M.R., Ghadimi R., Ghadiri K., Falavarjani K.G., Ghasemi-Kasman M., Ghiasvand H., Ghimire M., Ghoshal A.G., Gill P.S., Gill T.K., Giussani G., Gnedovskaya E.V., Goli S., Gomez R.S., Gómez-Dantés H., Gona P.N., Goodridge A., Gopalani S.V., Goulart A.C., Goulart B.N.G., Grada A., Grosso G., Gughani H.C.C., Guo J., Guo Y.,</p>					
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Indoor residual spraying for kala-azar vector control in Bangladesh: A continuing challenge	Chowdhury R., Chowdhury V., Faria S., Islam S., Maheswary N.P., Akhter S., Islam M.S., Dash A.P., Kroeger A., Banu Q.	PLoS neglected tropical diseases	2018	International Centre for Diarrhoea Disease Research, Dhaka, Bangladesh; National Institute of Preventive and Social Medicine (NIPSOM), Mohakhali, Dhaka, Bangladesh; Department of Statistics, Dhaka College, Dhaka, Bangladesh; Central University of Tamil	



					Nadu, Thiruvarur, India; Special Programme for Research and Training in Tropical Diseases, World Health Organization, Geneva, Switzerland; University of Freiburg, Centre for Medicine and Society/Anthropology, Freiburg, Germany; Asian University for Women, Chittagong, Bangladesh
Impact of the ferroelectric layer thickness on the resistive switching characteristics of ferroelectric/dielectric structures	Silva J.M.B., Silva J.P.B., Sekhar K.C., Pereira M., Gomes M.J.M.	Applied Physics Letters	2018		Centro de Física das Universidades do Minho e do Porto (CF-UM-UP), Campus de Gualtar, Braga, 4710-057, Portugal; IFIMUP and IN-Institute of Nanoscience and Nanotechnology, Departamento de Física e Astronomia, Faculdade de Ciências da Universidade do Porto, Rua do Campo Alegre 687, Porto, 4169-007, Portugal; Department of Physics, School of Basic and Applied Science, Central University of Tamil Nadu, Thiruvarur, 610

					101, India
Prevalence of disease vectors in Lakshadweep Islands during post-monsoon season	Krishnan J., Mathiarasan L.	Journal of Vector Borne Diseases	2018		Department of Life Sciences, Central University of Tamil Nadu, Thiruvarur, Tamil Nadu, India; Department of Epidemiology and Public Health, Central University of Tamil Nadu, Thiruvarur, Tamil Nadu, India
Investigation of photocatalytic performances of sulfur based reduced graphene oxide-TiO <sub>2</sub> nanohybrids	Raghavan N., Thangavel S., Sivalingam Y., Venugopal G.	Applied Surface Science	2018		Department of Sciences and Technology, School of Engineering and Technology, Karunya Institute of Technology and Sciences, Coimbatore, Tamil Nadu 641114, India; SRM Research Institute, Department of Physics and Nanotechnology, SRM Institute of Science and Technology, Kattangulathur campus, Chennai, India; Department of Materials Sciences, School of Technology, Central University of Tamil Nadu, Thiruvarur, Tamil Nadu 610 005, India
Electrochemical analysis of Graphene Oxide/Polyaniline/Polyvinyl alcohol	Rose A., Guru Prasad K., Sakthivel T., Gunasekaran V., Maiyalagan T., Vijayakumar	Applied Surface	2018		Department of Physics and Nanotechnology,

composite nanofibers for supercapacitor applications	T.	Science		SRM Institute of Science and Technology, Kattankulathur, Chennai, Tamil Nadu 603203, India; Department of Nanosciences and Technology, Karunya Institute of Technology and Sciences, Coimbatore, Tamil Nadu 641114, India; Department of Materials Sciences, Central University of Tamil Nadu, Thiruvarur, Tamil Nadu 610005, India; Department of Chemistry, SRM Institute of Science and Technology, Kattankulathur, Chennai, Tamil Nadu 603203, India	
Study of structural and electrochemical properties of La <sub>2</sub> SrV <sub>2</sub> O <sub>9</sub> perovskites prepared using ball-milling	Nallamuthu G., Thangavel S., Kirubakaran K., Vasudevan V., Sivalingam Y., Venugopal G.	Applied Surface Science	2018	Nanomaterials Research Lab (NmRL), Department of Nanosciences and Technology, Karunya Institute of Technology and Sciences, Coimbatore, Tamil Nadu 641114, India; SRM Research Institute, Department of Physics	

					and Nanotechnology, SRM Institute of Science and Technology, Kattankulathur Campus, Chennai, 603 203, India; Department of Materials Sciences, School of Technology, Central University of Tamil Nadu, Neelakudi Campus, Thiruvarur, Tamil Nadu 610 005, India
Physical resources assessment in a semi-arid watershed: An integrated methodology for sustainable land use planning	Balasubramani K.	ISPRS Journal of Photogrammetry and Remote Sensing	2018		Department of Geography, School of Earth Sciences, Central University of Tamil Nadu, Thiruvarur, India
Protection of photosynthesis in desiccation-tolerant resurrection plants	Challabathula D., Zhang Q., Bartels D.	Journal of Plant Physiology	2018		Institute of Molecular Physiology and Biotechnology of Plants, University of Bonn, Kirschallee 1, Bonn, 53115, Germany; Department of Life Sciences, School of Basic and Applied Sciences, Central University of Tamil Nadu, Thiruvarur, India
Substrate Temperature Effect on Microstructure, Optical, and Glucose Sensing Characteristics of Pulsed Laser	Kamakshi K., Silva J.P.B., Sekhar K.C., Agostinho Moreira J., Almeida A., Pereira M., Gomes M.J.M.	Plasmonics	2018		Centre of Physics, University of Minho, Campus de Gualtar,

Deposited Silver Nanoparticles					Braga, 4710-057, Portugal; IFIMUP and IN-Institute of Nanoscience and Nanotechnology, Departamento de Física e Astronomia, Faculdade de Ciências da Universidade do Porto, Rua do Campo Alegre 687, Porto, 4169-007, Portugal; Department of Physics, Madanapalle Institute of Technology & Science, Madanapalle, Andhra Pradesh, India; Department of Physics, Central University of Tamil Nadu, Thiruvarur, 610 101, India
Controlling breath figure patterns on PDMS by concentration variation of ethanol-methanol binary vapors	Nilavarasi K., Madhurima V.	European Physical Journal E	2018		Department of Physics, School of Basic and Applied Sciences, Central University of Tamil Nadu, Thiruvarur, Tamil Nadu 610005, India
Observation of anomalous transport characteristics in graphene-oxide thinfilm	Venugopal G., Sivalingam Y., Krishnamoorthy K., Surya V.J.Y., Devaraju M.K., Kim S.-J.	Materials Chemistry and Physics	2018		Department of Materials Sciences, School of Technology, Central University of Tamil Nadu, Thiruvarur, Tamil Nadu 610 005, India; SRM Research Institute,

				Department of Physics and Nanotechnology, SRM Institute of Science and Technology, Kattankulathur, Tamil Nadu 603203, India; Future Industries Institute, Division of Information Technology, Engineering and the Environment, University of South Australia, Adelaide, SA 5001, Australia; Department of Mechanical Engineering, Jeju National University, Jeju, 690-756, South Korea	
Annealing induced effect on the physical properties of ion-beam sputtered $0.5 \text{Ba}(\text{Zr} 0.2 \text{Ti} 0.8)\text{O}_{3-0.5}(\text{Ba} 0.7 \text{Ca} 0.3)\text{TiO}_{3-\delta}$ ferroelectric thin films	Oliveira M.J.S., Silva J.P.B., Veltruská K., Matolín V., Sekhar K.C., Moreira J.A., Pereira M., Gomes M.J.M.	Applied Surface Science	2018	Centre of Physics, University of Minho, Campus de Gualtar, Braga, 4710-057, Portugal; IFIMUP and IN-Institute of Nanoscience and Nanotechnology, Departamento de Física e Astronomia, Faculdade de Ciências da Universidade do Porto, Rua do Campo Alegre 687, Porto, 4169-007, Portugal;	

					Department of Surface and Plasma Science, Faculty of Mathematics and Physics, Charles University, V Holešovičkách 2, 18000 Prague 8, Czech Republic; Department of Physics, School of Basic and Applied Science, Central University of Tamil Nadu, Thiruvavur, 610 101, India
Susceptibility of wild and colonized Anopheles stephensi to Plasmodium vivax infection	Mohanty A.K., Nina P.B., Ballav S., Vernekar S., Parkar S., D'Souza M., Zuo W., Gomes E., Chery L., Tuljapurkar S., Valecha N., Rathod P.K., Kumar A.	Malaria Journal	2018		National Institute of Malaria Research, Field Unit, Campal, Goa, 403001, India; Departments of Chemistry and Global Health, University of Washington, Seattle, WA 98195, United States; Department of Epidemiology and Public Health, Central University of Tamil Nadu, Thiruvavur, Tamil Nadu, 610005, India; Goa Medical College and Hospital, Bambolim, Goa, 403202, India; Department of Biology, Stanford University, Stanford, CA 94305, United States; National

					Institute of Malaria Research (ICMR), Dwarka, New Delhi, 110077, India
A Logit Model to Predict Innovativeness among Mobile Telecom Service Users	Thakur A., Jasrai L.	Global Business Review	2018		Department of Commerce, Central University of Tamil Nadu, Neelakudi, Thiruvarur, Tamil Nadu, India; Department of Management, School of Business, Lovely Professional University, Phagwara, Punjab, India
Ferroelectric photovoltaic characteristics of pulsed laser deposited 0.5Ba(Zr0.2Ti0.8)O3-0.5(Ba0.7Ca0.3)TiO3/ZnO heterostructures	Silva J.P.B., Sekhar K.C., Cortés-Juan F., Negrea R.F., Kuncser A.C., Connolly J.P., Ghica C., Moreira J.A.	Solar Energy	2018		IFIMUP and IN-Institute of Nanoscience and Nanotechnology, Departamento de Física e Astronomia, Faculdade de Ciências da Universidade do Porto, Rua do Campo Alegre 687, Porto, 4169-007, Portugal; Centre of Physics, University of Minho, Campus de Gualtar, Braga, 4710-057, Portugal; Department of Physics, Central University of Tamil Nadu, Thiruvarur, 610 101, India; Valencia Nanophotonics



					Technology Center, Ed 8F Camino de Vera s/n, Valencia, 46022, Spain; National Institute of Materials Physics, 105 bis Atomistilor, Magurele, 077125, Romania; GeePs, UMR CNRS 8507, (IPVF), 11 rue Joliot Curie, Plateau de Moulon, Gif sur Yvette, 91192, France
Antibacterial, magnetic, optical and humidity sensor studies of $\beta$ -CoMoO <sub>4</sub> -Co <sub>3</sub> O <sub>4</sub> nanocomposites and its synthesis and characterization	Mobeen Amanulla A., Jasmine Shahina S.K., Sundaram R., Maria Magdalane C., Kaviyarasu K., Letsholathebe D., Mohamed S.B., Kennedy J., Maaza M.	Journal of Photochemistry and Photobiology B: Biology	2018		Department of Chemistry, Presidency College (Autonomous), Chennai, 600 005, India; Department of Microbiology, J.B.A.S College for women (Autonomous), Chennai, 600018, India; Department of Chemistry, St. Xavier's College (Autonomous), Tirunelveli, 627002, India; UNESCO-UNISA Africa Chair in Nanosciences/Nanotechnology Laboratories, College of Graduate Studies, University of South Africa (UNISA), Muckleneuk Ridge, P O Box 392, Pretoria, South Africa; Nanosciences

				<p>African network (NANOAFNET), Materials Research Department (MRD), iThemba LABS-National Research Foundation (NRF), 1 Old Faure Road, P O Box 722, Somerset West, Western Cape Province 7129, South Africa; Department of Physics, University of Botswana, Private Bag 0022, Gaborone, Botswana; Department of Materials Sciences, Central University of Tamil Nadu, Neelakudi, Thiruvarur, Tamil Nadu 610 005, India; National Isotope Centre, GNS Science, Lower Hutt, New Zealand</p>	
<p>Hysteretic Characteristics of Pulsed Laser Deposited <math>0.5\text{Ba}(\text{Zr } 0.2 \text{ Ti } 0.8 )\text{O}_3 - 0.5(\text{Ba } 0.7 \text{ Ca } 0.3 )\text{TiO}_3 / \text{ZnO}</math> Bilayers</p>	<p>Silva J.P.B., Wang J., Koster G., Rijnders G., Negrea R.F., Ghica C., Sekhar K.C., Moreira J.A., Gomes M.J.M.</p>	<p>ACS Applied Materials and Interfaces</p>	<p>2018</p>	<p>Centre of Physics, University of Minho, Campus de Gualtar, Braga, 4710-057, Portugal; IFIMUP and IN-Institute of Nanoscience and Nanotechnology, Departamento de Física e Astronomia, Faculdade de Ciências</p>	

				da Universidade Do Porto, Rua do Campo Alegre 687, Porto, 4169-007, Portugal; Faculty of Science and Technology and MESA Institute for Nanotechnology, Inorganic Materials Sciences, University of Twente, P.O. Box 217, Enschede, AE 7500, Netherlands; National Institute of Materials Physics, 405A Atomistilor, Magurele, 077125, Romania; Department of Physics, School of Basic and Applied Sciences, Central University of Tamil Nadu, Thiruvarur, 610101, India	
CLAG3 self-associates in malaria parasites and quantitatively determines nutrient uptake channels at the host Membrane	Gupta A., Balabaskaran-Nina P., Nguitragool W., Saggu G.S., Schureck M.A., Desai S.A.	mBio	2018	Laboratory of Malaria and Vector Research, NIAID, National Institutes of Health, Rockville, MD, United States; Department of Epidemiology and Public Health, Central University of Tamil Nadu, Thiruvarur, India; Department of Molecular Tropical	

					Medicine and Genetics, Mahidol University, Bangkok, Thailand
Complement-opsonized HIV-1 alters cross talk between dendritic cells and natural killer (NK) cells to inhibit NK killing and to upregulate PD-1, CXCR3, and CCR4 on T cells	Ellegård R., Khalid M., Svanberg C., Holgersson H., Thorén Y., Wittgren M.K., Hinkula J., Nyström S., Shankar E.M., Larsson M.	Frontiers in Immunology	2018		Division of Molecular Virology, Department of Clinical and Experimental Medicine, Linköping University, Linköping, Sweden; Department of Pharmaceutics, College of Pharmacy, King Khalid University, Asir-Abha, Saudi Arabia; Clinical Immunology and Transfusion Medicine, Department of Clinical and Experimental Medicine, Linköping University, Linköping, Sweden; Division of Infection Biology, Department of Life Sciences, Central University of Tamil Nadu, Thiruvarur, India; Center of Excellence for Research in AIDS (CERiA), University of Malaya, Lembah Pantai, Kuala Lumpur, Malaysia; Department of Microbiology, Central University of Tamil Nadu, Thiruvarur, India

Concentrated solar energy used for sintering magnesium titanates for electronic applications	Apostol I., Rodríguez J., Cañadas I., Galindo J., Mendez S.L., de Abreu Martins P.L., Cunha L., Saravanan K.V.	Applied Surface Science	2018	S.C. IPEE Amiral Trading Impex S.A., Curtea de Arges, 115300, Romania; CIEMAT- Plataforma Solar de Almeria, Tabernas, Almeria E-04200, Spain; Physics Department – Centre of Physics, University of Minho, Braga, 4710-057, Portugal; Department of Physics, School of Basic and Applied Science, Central University of TamilNadu, Thiruvarur, 61010, India
Study of H 1 spin lattice relaxation and dielectric relaxation in Poly(propylene glycol) system	Kabara K., Madhurima V., Kumbharkhane A.C., Sarode A.V.	Materials Chemistry and Physics	2018	School of Physical Sciences, Swami RamanandTeerth Marathwada University, Nanded, Maharashtra 431 606, India; Department of Physics, Central University of Tamil Nadu, Thiruvarur, 610005, India
Khasi hills and Khasi culture: Reconnection in Kynpham Sing Nongkynrih's The Yearning of Seeds	Chakraborty S.	Journal of Commonwealth Literature	2018	Central University of Tamil Nadu, India, India
Adhesion and invasion attributes of Burkholderia pseudomallei are dependent on airway surface liquid and	Mariappan V., Thimma J., Vellasamy K.M., Shankar E.M., Vadivelu J.	Environmental Microbiol	2018	Department of Medical Microbiology, Faculty of Medicine, University of

glucose concentrations in lung epithelial cells		ogy Reports			Malaya, Kuala Lumpur, 50603, Malaysia; Division of Infection Biology and Microbiology, Department of Life Sciences, Central University of Tamil Nadu (CUTN), Thiruvavarur, 610 101, India
Concentration effect on the structural and spectroscopic investigations of Sm <sup>3+</sup> ions doped B <sub>2</sub> O <sub>3</sub> -Bi <sub>2</sub> O <sub>3</sub> -CaF <sub>2</sub> -Na <sub>2</sub> O glasses	Mariyappan M., Arunkumar S., Marimuthu K.	Journal of Luminescence	2018		Department of Physics, Gandhigram Rural University, Gandhigram, 624302, India; Department of Physics, Central University of Tamilnadu, Thiruvavarur, 610101, India
A novel MoS <sub>2</sub> structures for electrochemical detection of 4-aminophenol	Ramasubramanian P.A., Thangavel S., Nallamuthu G., Kirabakaran K., Vasudevan V., Ravichandran K., Venugopal G.	Journal of Materials Sciences: Materials in Electronics	2018		Department of Nanosciences and Technology, Karunya Institute of Technology and Sciences, Coimbatore, Tamil Nadu 641-114, India; Department of Physics, St. Joseph's College (Autonomous), Shanthy Nagar, Bengaluru, Karnataka 560 027, India; Department of Materials Sciences, School of Technology, Central University of

					Tamil Nadu, Thiruvapur, Tamil Nadu 610 005, India
Integrated quantum flow and hidden Markov chain approach for resisting DDoS attack and C-Worm	Saranya R., Kannan S.S., Sundaram S.M.	Cluster Computing	2018		Department of Computer Science, Central University of Tamilnadu, Neelakudi, Tamil Nadu, India; Department of Computer Science and Engineering, Madurai Institute of Engineering and Technology, Sivagangai, Tamil Nadu, India; Department of Computer Science and Engineering, Aringer Anna College of Engineering and Technology, Dindigul, Tamil Nadu, India
Hyper-expression of PD-1 is associated with the levels of exhausted and dysfunctional phenotypes of circulating CD161 ++ TCR iVa7.2 + Mucosal-associated invariant T cells in chronic hepatitis B virus infection	Yong Y.K., Saeidi A., Tan H.Y., Rosmawati M., Enström P.F., Batran R.A., Vasuki V., Chattopadhyay I., Murugesan A., Vignesh R., Kamarulzaman A., Rajarajeswaran J., Ansari A.W., Vadivelu J., Ussher J.E., Velu V., Larsson M., Shankar E.M.	Frontiers in Immunology	2018		Laboratory Center, Xiamen University Malaysia, Sepang, Malaysia; Department of Medicine, University of Malaya Medical Centre, Kuala Lumpur, Malaysia; China-ASEAN Institute of Marine Science (CAMS), Xiamen University Malaysia, Sepang, Malaysia; Department of Traditional Chinese

				<p>Medicine, Xiamen University Malaysia, Sepang, Malaysia; Division of Molecular Virology, Department of Clinical and Experimental Medicine, Linköping University, Linköping, Sweden; Department of Medical Microbiology, Faculty of Medicine, University of Malaya, Kuala Lumpur, Malaysia; Department of Microbiology, The Government Thiruvapur Medical College and Hospital, Thiruvapur, India; Division of Molecular Cancer Biology, Department of Life Sciences, Central University of Tamil Nadu, Thiruvapur, India; The Government Theni Medical College and Hospital, Theni, India; Laboratory-Based Department, Universiti Kuala Lumpur, Ipoh, Malaysia; Center of Excellence for Research in AIDS, University of Malaya, Kuala Lumpur, Malaysia; Department</p>	
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					of Molecular Medicine, Faculty of Medicine, University of Malaya, Kuala Lumpur, Malaysia; Department of Microbiology and Immunology, University of Otago, Dunedin, New Zealand; Department of Microbiology and Immunology, Emory Vaccine Center, Atlanta, GA, United States; Division of Infection Biology, Department of Life Sciences, Central University of Tamil Nadu, Thiruvapur, India; Department of Microbiology, Central University of Tamil Nadu, Thiruvapur, India	
Comment on "protecting bipartite entanglement by quantum interferences"	Nair A.N., Arun R.	Physical Review A	2018		Department of Physics, School of Basic and Applied Sciences, Central University of Tamilnadu, Thiruvapur, Tamilnadu 610005, India	
Relations between the efficiency, power and dissipation for linear irreversible heat engine at maximum trade-off figure of merit	Iyyappan I., Ponmurugan M.	Journal of Statistical Mechanics: Theory and Experiments	2018		Department of Physics, School of Basic and Applied Sciences, Central University of Tamil Nadu, Thiruvapur, Tamil Nadu, 610 005,	

		nt			India	
Assessment of Tobacco Consumption and Control in India	Mohan P., Lando H.A., Panneer S.	Integrative Medicine Insights	2018		Department of Health Sciences, University of Canterbury, Christchurch, New Zealand; Managing Trustee, Integrated Social Development Seva Trust, Bangalore, India; Division of Epidemiology & Community Health, University of Minnesota, Minnesota, MN, United States; Department of Social Work, Centre for Happiness, Department of Applied Psychology, Central University of Tamil Nadu, Thiruvavur, India	
Estimation of the burden of serious human fungal infections in Malaysia	Velayuthan R.D., Samudi C., Singh H.K.L., Ng K.P., Shankar E.M., Denning D.W.	Journal of Fungi	2018		Department of Medical Microbiology, Faculty of Medicine, University of Malaya, Kuala Lumpur, 50603, Malaysia; Centre of Excellence for Research in AIDS (CERiA), Faculty of Medicine, University of Malaya, Kuala Lumpur, 50603, Malaysia; Department of Microbiology, School of Basic & Applied	

				Sciences, Central University of Tamil Nadu (CUTN), Thiruvarur, Tamil Nadu 610 101, India; Faculty of Biology, Medicine and Health, The University of Manchester and Manchester Academic Health Science Centre, Oxford Road, Manchester, M13 9PL, United Kingdom; The National Aspergillosis Centre, Education and Research Centre, Wythenshawe Hospital, Manchester, M23 9LT, United Kingdom	
Ferromagnetic nature in low-dimensional S = 1 antiferromagnetic Li <sub>2</sub> Ni(WO <sub>4</sub> ) <sub>2</sub> nanoparticles	Panneer Muthuselvam I., Sankar R., Narsinga Rao G., Karna S.K., Chou F.C.	Journal of Magnetism and Magnetic Materials	2018	Center for Condensed Matter Sciences, National Taiwan University, Taipei, 10617, Taiwan; Institute of Physics, Academia Sinica, Taipei, 10617, Taiwan; Central University of Tamil Nadu, Department of Materials Sciences, Neelakudi, Thiruvarur, Tamil Nadu 610005, India; Marri Laxman Reddy Institute of Technology and	

					Management, Hyderabad, Telangana, India; National Synchrotron Radiation Research Center, Hsinchu, 30076, Taiwan; Taiwan Consortium of Emergent Crystalline Materials, National Science Council, Taipei, 10622, Taiwan
Superconductivity in a Misfit Layered (SnS) <sub>1.15</sub> (TaS <sub>2</sub> ) Compound	Sankar R., Peramaiyan G., Panneer Muthuselvam I., Wen C.-Y., Xu X., Chou F.C.	Chemistry of Materials	2018		Institute of Physics, Academia Sinica, Taipei, 10617, Taiwan; Center for Condensed Matter Sciences, National Taiwan University, Taipei, 10617, Taiwan; Department of Materials Sciences, Central University of Tamil Nadu, Neelakudi, Thiruvavur, Tamil Nadu, 610005, India; Department of Materials Sciences and Engineering, National Taiwan University, Taipei, 10617, Taiwan; Advanced Functional Materials Lab, Department of Physics, Changshu Institute of Technology, Changshu,

				215500, China; Department of Physics, Hangzhou Normal University, Hangzhou, 310036, China; National Synchrotron Radiation Research Center, Hsinchu, 30076, Taiwan; Taiwan Consortium of Emergent Crystalline Materials, Ministry of Science and Technology, Taipei, 10622, Taiwan	
Determinants of preference of milk and milk products: The case of rural and urban areas in kanchipuram district of tamil nadu	Rameshkumar S., Vikraman A.	Indian Journal of Marketing	2018	Department of Commerce, School of Commerce and Business Management, Central University of Tamil Nadu, Thiruvarur, 610 005, India; Sri SankaraArts and Science College, Enathur, Kanchipuram, Tamil Nadu, 631 561, India	
Low-cost palladium decorated on: M - aminophenol-formaldehyde-derived porous carbon spheres for the enhanced catalytic reduction of organic dyes	Veerakumar P., Panneer Muthuselvam I., Thanasekaran P., Lin K.-C.	Inorganic Chemistry Frontiers	2018	Department of Chemistry, National Taiwan University, Taipei, 10617, Taiwan; Institute of Atomic and Molecular Sciences, Academia Sinica, Taipei, 10617, Taiwan; Department of Materials	

					Sciences, Central University of Tamil Nadu, Neelakudi, Thiruvarur 610005, India; Institute of Chemistry, Academia Sinica, Taipei, 11529, Taiwan
General relations between the power, efficiency, and dissipation for the irreversible heat engines in the nonlinear response regime	Iyyappan I., Ponmurugan M.	Physical Review E	2018		Department of Physics, School of Basic and Applied Sciences, Central University of Tamil Nadu, Thiruvarur, Tamil Nadu 610 005, India
Crystal growth and transport properties of Weyl semimetal TaAs	Sankar R., Peramaiyan G., Muthuselvam I.P., Xu S., Hasan M.Z., Chou F.C.	Journal of Physics Condensed Matter	2018		Institute of Physics, Academia Sinica, Taipei, 10617, Taiwan; Center for Condensed Matter Sciences, National Taiwan University, Taipei, 10617, Taiwan; Department of Materials Sciences, Central University of Tamil Nadu, Neelakudi, Thiruvarur, Tamil Nadu, 610005, India; Laboratory for Topological Quantum Matter and Spectroscopy (B7), Department of Physics, Princeton University, Princeton, NJ 08544,

					United States; National Synchrotron Radiation Research Center, Hsinchu, 30076, Taiwan; Taiwan Consortium of Emergent Crystalline Materials, National Science Council, Taipei, 10622, Taiwan
Evidence of anomalous behavior of intermolecular interactions at low concentration of methanol in ethanol-methanol binary system	Nilavarasi K., Kartha T.R., Madhurima V.	Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy	2018		Department of Physics, Central University of Tamil Nadu, School of Basic and Applied Sciences, Thiruvarur, Tamil Nadu 610005, India
Geriatric depression among the retired elders in Madurai, Tamil Nadu, India	Meenakshi J.R.	Indian Journal of Community Health	2018		Department of Social Work, Central University of Tamil Nadu, Thiruvarur, Tamil Nadu 610 005, India
Organic semiconductor/graphene oxide composites as a photo-anode for photo-electrochemical applications	Khurshid F., Jeyavelan M., Sterlin Leo Hudson M., Nagarajan S.	RSC Advances	2018		Department of Chemistry, Central University of Tamil Nadu, Thiruvarur, India; Department of Physics, Central University of Tamil Nadu, Thiruvarur, India
Electrochemical properties of reduced graphene oxide derived through	Ramesh A., Jeyavelan M., Leo Hudson M.S.	Dalton Transacti	2018		Department of Physics, Central University of

camphor assisted combustion of graphite oxide		ons			Tamil Nadu, Thiruvapur, 610005, India
Semipositivity of linear maps relative to proper cones in finite dimensional real hilbert spaces	Arumugasamy C., Jayaraman S., Mer V.N.	Electronic Journal of Linear Algebra	2018		Department of Mathematics, School of Mathematics and Computer Sciences, Central University of Tamil Nadu, Neelakudi, Kangalancherry,, Thiruvapur, Tamilnadu 610 101, India; School of Mathematics, Indian Institute of Science Education and Research Thiruvananthapuram, Maruthamala P.O., Vithura, Thiruvananthapuram, Kerala 695 551, India
Full column rank preservers that preserve semipositivity of matrices	Arumugasamy C., Jayaraman S.	Special Matrices	2018		Department of Mathematics, School of Mathematics and Computer Sciences, Central University of Tamil Nadu, Neelakudi, Kangalancherry, Thiruvapur, Tamilnadu, 610 101, India; School of Mathematics, Indian Institute of Science Education and Research Thiruvananthapuram, Maruthamala P.O., Vithura, Thiruvananthapuram,



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Investigation into defect chemistry and relaxation processes in niobium doped and undoped SrBi <sub>4</sub> Ti <sub>4</sub> O <sub>15</sub> using impedance spectroscopy	Jose R., Vineetha P., Rafiq M.A., Venkata Saravanan K.	RSC Advances	2018		Department of Physics, Central University of Tamil Nadu, Thiruvarur, 610005, India; Department of Metallurgical and Materials Engineering, University of Engineering and Technology, G.T Road, Lahore, 54890, Pakistan
Unsymmetrical starburst triaryl amines: Synthesis, properties and characteristics of OFETs	Dheepika R., Sonalin S., Imran P.M., Nagarajan S.	Journal of Materials Chemistry C	2018		Department of Chemistry, Central University of Tamil Nadu, Thiruvarur, 610 005, India; Department of Chemistry, Islamiah College, Vaniyambadi, 635 752, India
Library professionals' adoption of cloud computing technologies: A case study on Kerala University Library, India	Pillai S.K.G., Seena S.T.	Library Philosophy and Practice	2018		Department of Library and Information Science, Central University of Tamil Nadu, Neelakudi Campus Thiruvarur, Tamil Nadu, 610 005, India; Department of Library and Information Science University of Kerala, Thiruvananthapuram, Kerala, 695034, India
Aryl fluoride functionalized graphene oxides for excellent room temperature	Khurshid F., Jeyavelan M., Takahashi K., Leo Hudson M.S., Nagarajan S.	RSC Advances	2018		Department of Chemistry, Central

ammonia sensitivity/selectivity					University of Tamil Nadu, Thiruvarur, 610005, India; Department of Physics, Central University of Tamil Nadu, Thiruvarur, 610005, India; Center for Materials Research by Information Integration (CMI2), National Institute for Materials Sciences (NIMS), 1-2-1 Sengen, Tsukuba Ibaraki, 305-0047, Japan
Assessing photosensitizer targeting using meso-tetra(Carboxyphenyl) porphyrin	Chitgupi U., Lovell J.F., Rajendiran V.	Molecules	2018		Department of Biomedical Engineering, University at Buffalo, State University of New York, Buffalo, NY 14260, United States; Department of Chemistry, School of Basic and Applied Sciences, Central University of Tamil Nadu, Thiruvarur, 610005, India
Synthesis of water-soluble and bio-tagable CdSe@ZnS quantum dots	Ramalingam G., Saravanan K.V., Vizhi T.K., Rajkumar M., Baskar K.	RSC Advances	2018		Department of Nanoscience and Technology, Alagappa University Karaikudi Tamil Nadu 630 003, India; Department of Physics,

				Central University of Tamil, Nadu Thiruvapur, Tamil Nadu, 610 101, India; Department of Environmental Sciences, Bharathiyar University, Coimbatore Tamil Nadu, 641 046, India; Entomology Research Institute, Loyola College, Chennai, Tamil Nadu, 600 034, India	
Metamagnetism stabilized giant magnetoelectric coupling in ferroelectric: X BaTiO <sub>3</sub> -(1 - X)BiCoO <sub>3</sub> solid solution	Patra L., Pan Z., Chen J., Azuma M., Ravindran P.	Physical Chemistry Chemical Physics	2018	Department of Physics, Central University of Tamil Nadu, Thiruvapur, 610101, India; Simulation Center for Atomic and Nanoscale MATerials, Central University of Tamil Nadu, Thiruvapur Tamil Nadu, 610101, India; Department of Physical Chemistry, University of Science and Technology Beijing, Beijing, 100083, China; State Key Laboratory of Refractories and Metallurgy, Wuhan University of Science and Technology, Wuhan, 430081, China; Materials and Structures Laboratory, Tokyo	

					Institute of Technology, 4259 Nagatsuta, Midori Yokohama, 226-8503, Japan; Department of Materials Sciences, Central University of Tamil Nadu, Thiruvarur Tamil Nadu, 610101, India; Center for Materials Sciences and Nanotechnology, Department of Chemistry, University of Oslo, Box 1033, Blindern, Oslo, N-0315, Norway	
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