

## Curriculum vitae

**Name** : Dr. S. NAGARAJAN FRSC

**Designation** : Professor & Head

**Address** : Department of Chemistry  
Central University of Tamil Nadu  
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### EDUCATIONAL PROFILE

B.Sc Chemistry, Pioneer Kumaraswamy College, Nagercoil-629 003

MSc Organic Chemistry, Annamalai University, Annamalainagar- 608 002

Ph.D. Chemistry, Annamalai University, Annamalainagar- 608 002

*Postdoctoral Fellow*, Nanosciences Group, CEMES, Toulouse, France.

### TEACHING EXPERIENCE

Lecturer/Reader/Associate and Professor: 1996 -2012, Dept of Chemistry, Annamalai University.

Associate /Professor: Since 2012, Dept of Chemistry, Central University of Tamil Nadu

### RESEARCH AREA

- ✓ Organic Synthesis
- ✓ Organic Electronics

### HONORS/AWARDS

- Fellow of Royal Society of Chemistry (FRSC)
- Fellow of Indian Chemical Society
- Awarded **Silver medal - Indian Association of Solid-state Chemists and Allied Scientists (2011)**, New Delhi.
- Guest researcher, **International Center for Materials Nanoarchitectonics (MANA)**, NIMS, Tsukuba, **Japan (2010 & 2011)**.
- **BOYSCAST Fellow**, awarded by Ministry of Science & Technology, Govt. of India, worked with Nanoscience group of CEMES- CNRS, Toulouse, **France 2007- 2008**.
- **Young Scientist Fellowship**, Tamil Nadu State Council for Science & Technology, Chennai, worked at RGCB, Trivandrum, 1999.
- **CSIR** Research Fellowship.

## MEMBERSHIP IN THE PROFESSIONAL BODIES

1. Royal Society of Chemistry
2. Indian Chemical Society
3. Life member of CRSI
4. Life member of the Indian Peptide Society
5. Life member of the Indian Solid State Association
6. Fellow of the Society of Environmental Science

## EMR FUNDS GENERATED :

Rs. 111.3 Lakhs (from DST, CSIR, UGC, and Cavikare Ltd)

## RESEARCH GUIDANCE

Research Guidance	Guided	Guiding
Ph.D. Degree	14	6
Postdoctoral Students	03	-
M.Phil. Degree	22	-

## ACADEMIC | ADMINISTRATIVE POSITIONS

- DEAN- Academics, CUTN since Jan. 2022
- Head, Department of Chemistry, CUTN, since Nov 2022.
- Controller of Examinations (in charge), since 21<sup>st</sup> Jan 2021.
- Chairman, Board of Studies Chemistry, CUTN, since Nov 2022.
- Member, Results Committee, National Testing Agency (NTA), New Delhi, Since 2022.
- Coordinator, NEP-2020 Implementation Committee -CUTN.
- Member, Academic Council, CUTN
- Nodal Officer, NAD & ABC, CUTN (Since Jan. 2021).
- Chairman/Subject expert in many Universities & Colleges – Faculty Selection Committee.
- Monitoring Committee member -UGC STRIDE Project, 2019-2022.
- Member of the School board, Board of studies & Board of examinations in many Universities.
- Member Executive Council and Court, CUTN (2017-2022)
- Special Invitee, Executive Council, CUTN, since 2022.
- Head, Department of Chemistry, CUTN (2013-2019).
- Dean, School of Basic & Applied Sciences, CUTN (2017-2021)
- Chairman, School Board, CUTN (2017-2021)
- Member, Library Advisory Committee (2016—2023)
- Chairman, Board of Studies Chemistry, CUTN (2013-2019)
- Chairman, Enquiry Committee, Central University of Odisha (2018-19).
- Member IQAC, CUTN (2017-2021)
- Dean Students Welfare, CUTN (2016-2020)
- NAAC – Steering Committee Chairman during the Peer team visit -2016.

- Chairman/Member for technical evaluation or procurement of Instruments, CUTN.
- Member framing of CUTN Ordinances.
- NIRF- Nodal Officer (2016-2021).
- Coordinator, International Admissions, CUTN (2017-18).
- *Ek India ka time hai* Programme (MHRD) - Nodal Officer, 2017.
- Chief Warden, CUTN Hostels (2015-2016)
- Coordinator, Community College, CUTN (2013-2014)

#### CONFERENCES/WORKSHOPS ORGANIZED

1. National Workshop on Analytical Instruments for Material Characterization in collaboration with the National Institute of Technology, Warangal, under the **DST-STUTI** scheme. 21<sup>st</sup> June to 27<sup>th</sup> 2023.
2. National Workshop on Analytical Instruments for Material Characterization in collaboration with the National Institute of Technology, Warangal, under the **DST-STUTI** scheme. Feb. 8 - 15, 2023.
3. National Workshop on Analytical Instruments for Material Characterization in collaboration with the National Institute of Technology, Warangal, under the **DST-STUTI** scheme. 21<sup>st</sup> June to 27<sup>th</sup> 2023.
4. National Workshop on Analytical Instruments for Material Characterization in collaboration with the National Institute of Technology, Warangal, under the **DST-STUTI** scheme. Feb. 8 - 15, 2023.
5. Two-Day Conference of Central University Vice-Chancellors on "Devising Action Plan for Faster and Smoother Implementation of NEP-2020" on the 27<sup>th</sup> and 28<sup>th</sup> May 2022.
6. UGC-STRIDE Sponsored National Level One Week Faculty Development Programme on Carbon Capture and Storage, 21<sup>st</sup> to 25<sup>th</sup> February 2022.
7. *Thieme* Sponsored, Science of Synthesis, New free discovery tool for Synthetic Chemistry methods: SynOne at Department of Chemistry, CUTN, 16<sup>th</sup> October 2019.
8. Transition – 2018, Two Day National Workshop on "Recent Advances in Chemistry" 23-24, Jan. 2018.
9. Transition – 2017, Two Day National Workshop on "New Vistas in Chemistry Research" 17-18, Feb. 2017.
10. Transition – 2016, Two Day Workshop for 11<sup>th</sup> Standard School Students, 12-13, Feb. 2016.
11. Transition – 2015, Two Day Workshop for UG & PG Chemistry College Teachers, 13-14, Mar. 2015.
12. Transition – 2014, Outreach programme for PG Chemistry School Teachers, 24<sup>th</sup> Jan. 2014.

## RESEARCH PUBLICATIONS

- (1) Balambiga, B.; Devibala, P.; Harshini, D.; Imran, P. M.; Nagarajan, S. Acetylene Bridged Alkoxyphenanthrene and Triarylamine-Based Triads for Low Threshold Voltage with High Mobility OFETs. *Mater. Chem. Front.* **2023**, *7*, 2225-2234
- (2) Gayathri, R.; Angela, V. M.; Devibala, P.; Imran, P. M.; Nagarajan, S. Tailoring the Resistive Switching WORM Memory Behavior of Functionalized Bis (Triphenylamine). *ACS Appl. Mater. Interfaces* **2023**, *15* (19), 23546–23556.
- (3) Angela, V. M.; Harshini, D.; Anjali, A.; Imran, P. M.; Bhuvanesh, N. S. P.; Nagarajan, S. Enhancing the Resistive Switching Behavior of WORM Memory Devices Using D– $\Pi$ –A Based Ester-Flanked Quinolines. *Chem. Eur. J.* **2023**, *29* (8), e202202569.
- (4) Kurlekar, K.; Anjali, A.; Imran, P. M.; Nagarajan, S. High-Performance Organic Field-effect Transistors from Functionalized Zinc Meso-Porphyrins. *ChemPhysChem* **2023**, *24* (2), e202200375.
- (5) Angela, V. M.; Harshini, D.; Imran, P. M.; Nagarajan, S. Strategical Design and Synthesis of D–A–D-Based Quinolines for Improved WORM Memory Performance. *J. Mater. Chem. C* **2023**, *11* (3), 1103–1110.
- (6) Devibala, P.; Balambiga, B.; Imran, P. M.; Bhuvanesh, N. S. P.; Nagarajan, S. Synthesis of Anthracene and Pyrene End-Capped Triarylmines for P-Channel High-Performance OFETs. *European J. Org. Chem.* **2022**, *2022* (44), e202200825.
- (7) Ganesh, P. S.; Veena, K.; Senthil, R.; Iswamy, K.; Ponmalar, E. M.; Mariappan, V.; Girija, A. S. S.; Vadivelu, J.; Nagarajan, S.; Challabathula, D. Biofilm-Associated Agr and Sar Quorum Sensing Systems of Staphylococcus Aureus Are Inhibited by 3-Hydroxybenzoic Acid Derived from Illicium Verum. *ACS omega* **2022**, *7* (17), 14653–14665.
- (8) Jeyavelan, M.; Khurshid, F.; Akhil, M.; Kannan, R. R.; Ramesh, A.; Nagarajan, S.; Hofmann, M.; Hudson, M. S. L. Highly Sensitive Organic Electrochemical Transistor for Detection of Stress-Induced Cation Leakage from Plant Cells. *Biosens. Bioelectron. X* **2022**, *12*, 100251.
- (9) Harshini, D.; Devibala, P.; Angela, V. M.; Nagarajan, S. Approaches for Fabricating Tri- and Tetraphenylethene-Based Blue Organic Light-Emitting Diodes Using Donor–Acceptor and Non-Donor–Acceptor Molecular Architectures. *Phys. status solidi (RRL)–Rapid Res. Lett.* **2022**, *16* (11), 2200206.
- (10) Anjali, A.; Imran, P. M.; Bhuvanesh, N. S. P.; Nagarajan, S. Influence of  $\Pi$ -Endcaps on the Performance of Functionalized Quinolines for p-Channel OFETs. *Macromol. Rapid Commun.* **2022**, *43* (3), 2100472.

- (11) Harshini, D.; Angela, V. M.; Devibala, P.; Imran, P. M.; Bhuvanesh, N. S. P.; Nagarajan, S. Improved Resistive Switching WORM Memory Behavior in D- $\pi$ -A Architectures by Modifying the Terminal Donor Units. *ACS Appl. Electron. Mater.* **2022**, *4* (9), 4383–4395.
- (12) Panneerselvam, D.; Predhanekar, I.; Bhuvanesh, N.; Nagarajan, S. Influence of Tetraphenylbenzene on the OFET Behavior of Triarylaminines. *Adv. Electron. Mater.* **2022**, *8*. <https://doi.org/10.1002/aelm.202200484>.
- (13) Balambiga, B.; Devibala, P.; Imran, P. M.; Bhuvanesh, N. S. P.; Nagarajan, S. High Mobility and ON/OFF Ratio of Solution-Processable P-Channel OFETs from Arylacetylene End-Capped Alkoxyphenanthrenes. *ChemPhysChem* **2022**, *23* (23), e202200350.
- (14) Anjali, A.; Lenka, S. K.; Imran, P. M.; Bhuvanesh, N. S. P.; Nagarajan, S. Functionalized D/A-A-D Quinolines for Application in Solution-Processable p-Channel Organic Field-Effect Transistors. *New J. Chem.* **2022**, *46* (28), 13608–13614. <https://doi.org/10.1039/d2nj00686c>.
- (15) Devibala, P.; Balambiga, B.; Noureen, S.; Nagarajan, S. Hexaarylbenzene Based High-Performance p-Channel Molecules for Electronic Applications. *RSC Adv.* **2021**, *11* (19), 11672–11701.
- (16) Devibala, P.; Balambiga, B.; Noureen, S.; Nagarajan, S. Hexaarylbenzene Based High-Performance p-Channel Molecules for Electronic Applications. *RSC Adv.* **2021**, *11* (19), 11672–11701.
- (17) Abhijna Krishna, R.; Dheepika, R.; Muralisankar, M.; Nagarajan, S. Microwave-Assisted Synthesis and DNA-Binding Studies of Half-Sandwich Ruthenium (II) Arene Complexes Containing Phenanthroimidazole-Triarylamine Hybrids. *J. Coord. Chem.* **2021**, *74* (4–6), 838–849.
- (18) Devibala, P.; Balambiga, B.; Mohamed Imran, P.; Bhuvanesh, N. S. P.; Nagarajan, S. Butterfly-Like Triarylaminines with High Hole Mobility and On/Off Ratio in Bottom-Gated OFETs. *Chem. Eur. J.* **2021**, *27* (62), 15375–15381.
- (19) Mishra, A.; Dheepika, R.; Parvathy, P. A.; Imran, P. M.; Bhuvanesh, N. S. P.; Nagarajan, S. Fluorescence Quenching Based Detection of Nitroaromatics Using Luminescent Triphenylamine Carboxylic Acids. *Sci. Rep.* **2021**, *11* (1), 19324.
- (20) Khurshid, F.; Jeyavelan, M.; Nagarajan, S. Photocatalytic Dye Degradation by Graphene Oxide Doped Transition Metal Catalysts. *Synth. Met.* **2021**, *278*, 116832.
- (21) Maria Angela, V.; Anjali, A.; Harshini, D.; Nagarajan, S. Organic Light-Emitting Transistors: From Understanding to Molecular Design and Architecture. *ACS Appl. Electron. Mater.* **2021**, *3* (2), 550–573.

- (22) Sonalin, S.; Kurlekar, K.; Anjali, A.; Imran, P. M.; Nagarajan, S. Cover Feature: Synthesis of Phenanthro [9, 10-d] Imidazoles and Their Potential Applications in Solution Processable Bottom-Gated OFETs (Asian J. Org. Chem. 6/2020). *Asian J. Org. Chem.* **2020**, *9* (6), 841.
- (23) Yadhukrishnan, V. O.; Muralisankar, M.; Dheepika, R.; Konakanchi, R.; Bhuvanesh, N. S. P.; Nagarajan, S. Structurally Different Domains Embedded Half-Sandwich Arene Ru (II) Complex: DNA/HSA Binding and Cytotoxic Studies. *J. Coord. Chem.* **2020**, *73* (10), 1591–1604.
- (24) Sonalin, S.; Kurlekar, K.; Anjali, A.; Imran, P. M.; Nagarajan, S. Synthesis of Phenanthro [9, 10-d] Imidazoles and Their Potential Applications in Solution Processable Bottom-Gated OFETs. *Asian J. Org. Chem.* **2020**, *9* (6), 939–946.
- (25) Venkatramanan, M.; Ganesh, P. S.; Senthil, R.; Akshay, J.; Ravi, A. V; Langeswaran, K.; Vadivelu, J.; Nagarajan, S.; Rajendran, K.; Shankar, E. M. Inhibition of Quorum Sensing and Biofilm Formation in Chromobacterium Violaceum by Fruit Extracts of Passiflora Edulis. *ACS Omega*, *5*, 25605-25616. *PMID[Europe PMC Free Artic. Sch.* **2020**.
- (26) Parvathy, P. A.; Dheepika, R.; Abhijnakrishna, R.; Imran, P. K. M.; Nagarajan, S. Fluorescence Quenching of Triarylamine Functionalized Phenanthroline-Based Probe for Detection of Picric Acid. *J. Photochem. Photobiol. A Chem.* **2020**, *401*, 112780.
- (27) Khurshid, F.; Jeyavelan, M.; Hussain, T.; Hudson, M. S. L.; Nagarajan, S. Ammonia Gas Adsorption Study on Graphene Oxide Based Sensing Device under Different Humidity Conditions. *Mater. Chem. Phys.* **2020**, *242*, 122485.
- (28) Anjali, A.; Dheepika, R.; Imran, P. M.; Bhuvanesh, N. S. P.; Nagarajan, S. Ester-Flanked  $\pi$ -Extended Quinolines for Solution-Processable Ambipolar Organic Field-Effect Transistors. *ACS Appl. Electron. Mater.* **2020**, *2* (8), 2651–2661.
- (29) Sonalin, S.; Mishra, A.; Sahu, A. K.; Mishra, A. K.; Imran, P. M.; Bhuvanesh, N. S. P.; Nagarajan, S. Aggregation Behavior and High Charge-Carrier OFET-Mobility of Functionalized Phenanthro [9, 10-d] Imidazoles. *J. Phys. Chem. C* **2020**, *124* (24), 13053–13062.
- (30) Kurlekar, K.; Anjali, A.; Sonalin, S.; Imran, P. M.; Nagarajan, S. Solution-Processable Meso-Triarylamine Functionalized Porphyrins with a High Mobility and ON/OFF Ratio in Bottom-Gated Organic Field-Effect Transistors. *ACS Appl. Electron. Mater.* **2020**, *2* (10), 3402–3408.
- (31) Dheepika, R.; Abhijnakrishna, R.; Imran, P. M.; Nagarajan, S. High Performance P-Channel and Ambipolar OFETs Based on Imidazo [4, 5-f]-1, 10-Phenanthroline-Triarylamines. *RSC Adv.* **2020**, *10* (22), 13043–13049.

- (32) Dheepika, R.; Shaji, A.; Imran, P. M.; Nagarajan, S. Improving Device Performance of P-Type Organic Field-Effect Transistor Using Butterfly like Triarylamines. *Org. Electron.* **2020**, *81*, 105568.
- (33) Sivakumar, D.; Thanusu, J.; Kanagarajan, V.; Nagarajan, S.; Manikandan, H.; Gopalakrishnan, M. One-Pot Synthesis of 2-Hydroxy-1, 4-Naphthoquinone (Lawsone). *Curr. Org. Synth.* **2019**, *16* (3), 431–434.
- (34) Dheepika, R.; Mohamed Imran, P.; Bhuvanesh, N. S. P.; Nagarajan, S. Solution-processable Unsymmetrical Triarylamines: Towards High Mobility and ON/OFF Ratio in Bottom-gated OFETs. *Chem. Eur. J.* **2019**, *25* (66), 15155–15163.
- (35) Sonalin, S.; Pandikassala, A.; Dheepika, R.; Imran, P. K. M.; Nagarajan, S. Molecular Aggregation Stimulated Tunable Emission Behaviour of Functionalized 1, 8-Naphthalimides. *J. Lumin.* **2019**, *215*, 116699.
- (36) Devibala, P.; Dheepika, R.; Vadivelu, P.; Nagarajan, S. Synthesis of Aroylbenzoate-Based Push-Pull Molecules for OFET Applications. *ChemistrySelect* **2019**, *4* (8), 2339–2346.
- (37) Khurshid, F.; Jeyavelan, M.; Hudson, M. S. L.; Nagarajan, S. Ag-Doped ZnO Nanorods Embedded Reduced Graphene Oxide Nanocomposite for Photo-Electrochemical Applications. *R. Soc. Open Sci.* **2019**, *6* (2), 181764.
- (38) Muralisankar, M.; Dheepika, R.; Haribabu, J.; Balachandran, C.; Aoki, S.; Bhuvanesh, N. S. P.; Nagarajan, S. Design, Synthesis, DNA/HSA Binding, and Cytotoxic Activity of Half-Sandwich Ru (II)-Arene Complexes Containing Triarylamine–Thiosemicarbazone Hybrids. *ACS omega* **2019**, *4* (7), 11712–11723.
- (39) Dheepika, R.; Sonalin, S.; Imran, P. M.; Nagarajan, S. Unsymmetrical Starburst Triarylamines: Synthesis, Properties, and Characteristics of OFETs. *J. Mater. Chem. C* **2018**, *6* (26), 6916–6919.
- (40) Yu, M.; Benjalal, Y.; Chen, C.; Kalashnyk, N.; Xu, W.; Barattin, R.; Nagarajan, S.; Lægsgaard, E.; Stensgaard, I.; Hliwa, M. Three-Dimensional Hydrogen Bonding between Landers and Planar Molecules Facilitated by Electrostatic Interactions with Ni Adatoms. *Chem. Commun.* **2018**, *54* (64), 8845–8848.
- (41) Khurshid, F.; Jeyavelan, M.; Hudson, M. S. L.; Nagarajan, S. Organic Semiconductor/Graphene Oxide Composites as a Photo-Anode for Photo-Electrochemical Applications. *RSC Adv.* **2018**, *8* (63), 35959–35965.
- (42) Sonalin, S.; Sakthivel, K.; Nagarajan, S. Functionalization of 1, 8-Naphthalimides-an Approach towards Air-Stable n-Type Organic Semiconductors. *Mater. Today Proc.* **2018**, *5* (8), 16592–16597.

- (43) Khurshid, F.; Jeyavelan, M.; Takahashi, K.; Hudson, M. S. L.; Nagarajan, S. Aryl Fluoride Functionalized Graphene Oxides for Excellent Room Temperature Ammonia Sensitivity/Selectivity. *RSC Adv.* **2018**, 8 (36), 20440–20449.
- (44) Parveen, A.; Sughanya, V.; Nagarajan, S. Quenching of Fluorescence in C60 Fulleropyrrolidines by Chloroform. *Spectrochim. Acta Part A Mol. Biomol. Spectrosc.* **2016**, 152, 77–81.
- (45) Sivarajan, P.; Arutchelvan, V.; Nagarajan, S. Biodegradation Kinetics of 2-Chlorophenol with Starch Water as Co-Substrate Using Anaerobic Batch Reactor. *Int. J. Eng. Res. Technol* **2016**, 5 (11), 141–145.
- (46) Boobalan, G.; Imran, P. K. M.; Manoharan, C.; Nagarajan, S. Optical and Electrical Properties of New Perylene Diimide Thin Films. *J. Electron. Mater.* **2015**, 44, 4000–4005.
- (47) Parveen, A.; Sughanya, V.; Nagarajan, S. Efficient Synthesis of Highly Soluble and Functionalized Fulleropyrrolidines. *RSC Adv.* **2015**, 5 (26), 20351–20356.
- (48) Yang, H.; Mayne, A. J.; Comtet, G.; Dujardin, G.; Kuk, Y.; Nagarajan, S.; Gourdon, A. Single-Molecule Light Emission at Room Temperature on a Wide-Band-Gap Semiconductor. *Phys. Rev. B* **2014**, 90 (12), 125427.
- (49) Sumitha Celin, T.; Nagarajan, S. Inclusion Complexation of 2-Aminopyrimidines with  $\beta$ -Cyclodextrin, Physico-Chemical and Nuclear Magnetic Spectroscopic Studies. *Mater. Sci.* **2014**, 32, 39–44.
- (50) Madhurima, V.; Priyanka, K. G.; Pavan, K.; Nagarajan, S. Analysis of Wetting of Perylene Diimide Thin Films-on-Glass by Water. *Key Eng. Mater.* **2014**, 594, 1074–1077.
- (51) Boobalan, G.; Imran, P. M.; Ramkumar, S. G.; Nagarajan, S. Fabrication of Luminescent Perylene Bisimide Nanorods. *J. Lumin.* **2014**, 146, 387–393.
- (52) Udhayavani, S.; Nagarajan, S. Synthesis of 2-Amino-6-Aryl-4-(Furan-2yl) Pyrimidines Obtained by Microwave Reaction. *IJAPBC* 2014.
- (53) Senguttuvan, S.; Murugavelu, M.; Nagarajan, S. Reductive Amination of 2, 6-Diarylpiperidin-4-ones. *Synth. Commun.* **2013**, 43 (20), 2720–2724.
- (54) Varghese, S.; Anand, C.; Dhawale, D.; Mane, G. P.; Wahab, M. A.; Mano, A.; Raj, G. A. G.; Nagarajan, S.; Vinu, A. Highly Selective Synthesis of Ortho-Prenylated Phenols and Chromans by Using a New Bimetallic CuAl-KIT-5 with a 3D-Cage-type Mesoporous Structure. *ChemCatChem* **2013**, 5 (4), 899–902.
- (55) Boobalan, G.; Imran, P. K. M.; Nagarajan, S. Luminescent One-Dimensional Nanostructures of Perylene Bisimides. *Spectrochim. Acta Part A Mol. Biomol. Spectrosc.* **2013**, 113, 340–345.



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- (57) Rosarin, F. S.; Arulmozhi, V.; Nagarajan, S.; Mirunalini, S. Antiproliferative Effect of Silver Nanoparticles Synthesized Using Amla on Hep2 Cell Line. *Asian Pac. J. Trop. Med.* **2013**, *6* (1), 1–10.
- (58) Saravanan, G.; Selvaraju, R.; Nagarajan, S. Synthesis of Novel 2-Iminothiazolidin-4-ones (III). *ChemInform* **2013**, *44* (5), no-no.
- (59) Boobalan, G.; Imran, P. K. M.; Manoharan, C.; Nagarajan, S. Fabrication of Highly Fluorescent Perylene Bisimide Nanofibers through Interfacial Self-Assembly. *J. Colloid Interface Sci.* **2013**, *393*, 377–383.
- (60) Yang, H.; Mayne, A. J.; Comtet, G.; Dujardin, G.; Kuk, Y.; Sonnet, P.; Stauffer, L.; Nagarajan, S.; Gourdon, A. STM Imaging, Spectroscopy and Manipulation of a Self-Assembled PTCDI Monolayer on Epitaxial Graphene. *Phys. Chem. Chem. Phys.* **2013**, *15* (14), 4939–4946.
- (61) Murugavelu, M.; Imran, P. K. M.; Sankaran, K. R.; Nagarajan, S. Self-Assembly and Photophysical Properties of a Minuscule Tailed Perylene Bisimide. *Mater. Sci. Semicond. Process.* **2013**, *16* (2), 461–466.
- (62) Varghese, S.; Anand, C.; Dhawale, D.; Mano, A.; Balasubramanian, V. V.; Raj, G. A. G.; Nagarajan, S.; Wahab, M. A.; Vinu, A. Mesoporous and Hexagonally Ordered CuAl-SBA-15-Catalyzed Tandem C–C and C–O Bond Formation between Phenols and Allylic Alcohols. *Tetrahedron Lett.* **2012**, *53* (42), 5656–5659.
- (63) Varghese, S.; Nagarajan, S.; Benzigar, M. R.; Mano, A.; AlOthman, Z. A.; Raj, G. A. G.; Vinu, A. 3D Nanoporous FeAl-KIT-5 with a Cage Type Pore Structure: A Highly Efficient and Stable Catalyst for Hydroarylation of Styrene and Arylacetylenes. *Tetrahedron Lett.* **2012**, *53* (12), 1485–1489.
- (64) Boobalan, G.; Imran, P. M.; Nagarajan, S. Self-Assembly and Optical Properties of NN'-Bis (4-(1-Benzylpiperidine)) Perylene-3, 4, 9, 10-Tetracarboxylic Diimide. *Supramol. Chem.* **2012**, *24* (4), 238–246.
- (65) Hemalatha, T.; Imran, P. K. M.; Gnanamani, A.; Nagarajan, S. QSAR and Evaluation of Molecular Electrostatic Potential for N-Nitrosopiperidinone Semicarbazones. *Chemom. Intell. Lab. Syst.* **2012**, *116*, 87–93.
- (66) Ingarsal, M.; Amutha, P.; Gopalakrishnan, M.; Nagarajan, S. Synthesis and Stereodynamics of N-Formyl-1, 2, 3-Selenadiazolopyridines. *Phosphorus. Sulfur. Silicon Relat. Elem.* **2012**, *187* (4), 515–522.

- (67) Nagarajan, S.; Barthes, C.; Girdhar, N. K.; Dang, T. T.; Gourdon, A. Methylterrylene Isomers. *Tetrahedron* **2012**, *68* (46), 9371–9375.
- (68) Velayutham, T.; Arutchelvan, V.; Nagarajan, S.; Muralikrishnan, V. Isolation and Identification of Polycyclic Aromatic Hydrocarbon–Degrading Bacteria from Crude Oil Exploration Bore Well Sludge. *Bioremediat. J.* **2012**, *16* (3), 141–146.
- (69) Saravanan, G.; Selvaraju, R.; Nagarajan, S. Synthesis of Novel 2-Iminothiazolidin-4-Ones. *Synth. Commun.* **2012**, *42* (22), 3361–3367.
- (70) Yu, M.; Xu, W.; Kalashnyk, N.; Benjalal, Y.; Nagarajan, S.; Masini, F.; Lægsgaard, E.; Hliwa, M.; Bouju, X.; Gourdon, A. From Zero to Two Dimensions: Supramolecular Nanostructures Formed from Perylene-3, 4, 9, 10-Tetracarboxylic Diimide (PTCDI) and Ni on the Au (111) Surface through the Interplay between Hydrogen-Bonding and Electrostatic Metal-Organic Interactions. *Nano Res.* **2012**, *5*, 903–916.
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