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Dr.S. Beer Mohamed M.Sc.,M.E.,Ph.D.

Email:sbmohammed@cutn.ac.in

peermoha@gmail.com & peer_moha@yahoo.com

Mobile: +91-9944602991



Educational Qualification:

❖ Doctor of Philosophy (Materials Science) University Putra Malaysia, MALAYSIA.	August 1999
❖ Master of Engineering (Metallurgical Eng, Materials Science) Department of Metallurgical Engineering, National Institute of Technology (NIT), Trichy, INDIA.	December 1991
❖ Master of Science (Physics, Electronics) Bhrathidasan University , Trichy, INDIA.	April 1990
❖ Bachelor of Science (Physics, Electronics) Bharathidasan University, Trichy, INDIA.	April 1988

Teaching / Research experience:

Name of the position	Name of the University/ Institution
☆ Associate Professor (September-2016-till date) Dean School of Technology HOD, Dept. of Materials Science (2017-2021)	Department of Materials Science School of Technology Central University of Tamil Nadu Thiruvarur-610101. Tamil Nadu, India.
☆ Professor (July-2013-October -2016)	Department of Mechanical Engineering B.S.Abdur Rahman University Chennai-600048. Tamil Nadu, India.
☆ Professor (March 2010-June-2013)	Department of Physics (Teaching in Electrical, Mechanical and Computer Engineering Depts.), King Faisal University, Al-Hasa, Saudi Arabia.
☆ Senior Research Scientist (Oct. 2008-Feb. 2010)	Dept. of Electrical and Computer Engineering (Solar cells Device Fabrication&Characterization) National University of Singapore, Singapore.
☆ Research Scientist (From Oct. 2006 Sept.2008)	Carbon Nanotubes Group Dept. of Chemical, Bio. and Materials Engineering University of Oklahoma, Oklahoma, United States of America.

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☆ Ass.Prof/Research Associate (Jan. 2005 – Sept. 2006)	Nano Structured Materials and Devices Group Department of Crystalline Materials Science Graduate School of Engineering (Nobel Prize-2014) Nagoya University , Nagoya, JAPAN .
☆ Ass.Prof/Research Associate (Nov. 2003 – Dec. 2005)	Venture Business Laboratory Nagoya University Nagoya, JAPAN .
☆ Senior Research Engineer (June. 2003 – Oct. 2003)	ENAX Industries Yonezawa Research Laboratory Yonezawa, JAPAN .
☆ Industrial Tech. Researcher (April 2000 – May 2003)	Photonics Research Institute National Institute of Advanced Industrial Science and Technology (AIST), Tsukuba, JAPAN .
☆ Post Doctoral Researcher (June 1999 – March 2000)	University Putra Malaysia MALAYSIA .
☆ Graduate Research Assistant (Jan. 1995 – May 1999)	University Putra Malaysia MALAYSIA .
☆ Senior Lecturer (1994 – Dec. 1998)	School of Electrical and Electronics Engineering (Twinning with De'Montfort Univ. United Kingdom) International University college of Technology Twintech, MALAYSIA .
☆ Lecturer (1993 – 1994)	Department of Electrical and Electronics Engineering (Twinning with Swinburne Univ. Australia) Institute Technology Jaya, MALAYSIA .
☆ Lecturer (June 1992 – 1993)	Department of Electrical and Electronics Engineering Workers Institute of Technology, MALAYSIA .

Research papers published in Journals and presented in conferences:

- Papers published in International Journals and proceedings: 71+
- Papers presented in National/International conferences : 47+

Awards and Recognition:

- **Editor:** International Journal of Ceramics and Ceramic Technology,
International Journal of Alloys, International Journal of Metallurgy (2019-21)
- Who is who in Marquis Science and Engineering-2007-2012
- Venture Business Laboratory Fellowship, Japan, Nov. 2003-Oct. 2006
- NEDO Fellowship (Highest Fellowship Award), Japan, 2000-2003
- Graduate Research Assistant, Malaysia-1995-1999
- Best Research Innovation Award, Malaysia-2000

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- Reviewer: Current Nanoscience, Journal of Materials Chemistry and Physics, Journal of Alloys and compounds, Semiconductor Sci &Tech
- Co-organised Local Lattice Distortion International conference -2002
- External and Foreign Examiner for Ph.D.
- ABET quality assurance co-ordinator

Research Projects worked:

- Fabrication and Characterization of Si based Nanostructured and Thin film Solar Cell device. (Singapore)
- Synthesis and characterization of carbon nanotubes nanotubes. (U.S.A.)
- Epitaxial growth of III-V Semiconductors (Japan)
 - III-Nitrides (Indium Nitride etc.)
 - Rare earth (Er, Cs, Br:Eu) doped AlGaAs
 - InP quantum dots
 - Epitaxial growth of III-V semiconductors using Molecular Beam Epitaxy (MBE)
 - Epitaxial growth of III-V semiconductors using Metal Organic Vapor Phase Epitaxy (MOVPE)
- Studies on Local Structure of superconducting and semiconducting materials using synchrotron radiation EXAFS,XANES; Experience with Synchrotron Beamlines (Frequent user) (BL-12C,BL-9A,BL-13B , KEK. Tsukuba, Japan), BL01B1, SPring-8, Japan.
- Synthesis and characterization of High Temperature Superconducting materials; Dielectric Materials (Malaysia)
- Fabrication of Lithium Ion Batteries with new anode and cathode materials (Japan).
- RF sputtering and Laser ablation deposition of Giant Magnetoresistance, Colossal Magneto Resistance materials (Malaysia).

STUDENTS GUIDING (PHD/MS):

- **Ph.D.:** Completed: 02 Guiding: **03**
- **M.S./M.Tech.:** Completed: 25 Guiding: **02**
- **B.Tech:** Completed: 16 Guiding: **12**

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Funded Research Projects

- 1) Synthesis and characterization of doped metal oxide nanoparticles for gas sensor applications 2012-2013 (SR-50,000), Saudi Arabia.
- 2) Diluted magnetic oxide semi-conductor nano-particles for thermoelectric, photo thermoelectric, and gas sensor applications 2013-2015 (SR-615,000), Saudi Arabia (KSA).
- 3) An Investigation for Ceramic Varistors from $Zn_{0.95}M_{0.05}O$ ($M = Zn, Co, Fe, Ni, Mn$) Working with High Efficiency at High Temperature 2013-2014 (SR- 80,000) Saudi Arabia (KSA).
- 4) Effect of Al on Ti-Al-N, Cr-Al-N and Zr-Al-N Coatings
UGC-DAE-CSR with IGCAR, Kalpakkam -3 years (Ongoing). (Rs. 19,00,000 -approx) 2014-2017.

Instruments Worked :

- Molecular Beam Epitaxy (MBE)
- Chemical Vapor Deposition (CVD)
- Metal Organic Vapour Phase Epitaxy (MOVPE)
- RF Sputtering
- E-beam evaporator
- Four point Probe Station
- Laser Ablation
- X-ray Photoelectron Spectroscopy (XPS),
- Raman Spectroscopy
- Fourier Transform Infrared Spectroscopy (FTIR)
- Ultraviolet spectroscopy (UV)
- Synchrotron Beamlines (BL-12C,BL-9A,BL-13B , KEK), BL01B1 SPring-8,**Japan**
- High resolution X-ray diffraction- (Philips, Rigaku, Bruker),
- Photo Luminescence
- Photolithography
- Scanning Electron Microscope (SEM) (JOEL,Hitachi S-5200,S-4300),
- Transmission Electron Microscope (TEM) (JOEL),
- Atomic Force Microscope (AFM) (Nanoscope IIIa),
- EDAX, Electron Probe Microanalysis (JOEL),
- AC Susceptometer (Lakshore),
- Hall Probe (Quantum Design),
- Physical Property Measurement System (PPMS)

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Professional Affiliation :

- Member International Association of Engineers
- Member American Physical Society (APS),USA.
- Life Member, Malaysian Solid State Science, Malaysia.
- Member Applied Physics Society, Japan.
- Member International X-ray Absorption Fine Structure (IXS), Japan.
- Member Indian Institute of metals (IIM), India.
- Treasurer, Society of Automobile Engineers, Southern section.

Computer Skills:

- Fortran,
- Labview
- Spec.
- MS- Office.
- Operating system: Windows, Vista, Linux, Unix and Macintosh

Languages Known:

- English, Japanese, Malay, Tamil

Subjects Taught:

Materials Science, Advanced Strength of Materials, Electrical Circuits, Advanced Engineering mathematics, Measurements and Controls, Mechatronics, Advanced Instrumentation, Cryogenic engineering, Composite materials Technology, Mechanical Metallurgy, Physical Metallurgy, Physics, Production Technology, Manufacturing Technology, Nanotechnology, Analogue Electronics, Digital Electronics, Fluid Mechanics.

Book Chapters Published:

- 1) S Beer Mohamed, C Kaviarasu, A Danielwillson, C Velmurugan, R Jayaganthan, K Kaviarasu (2022) "Metal Additive Manufacturing: Materials, Methods, Microstructure Evolution and Mechanical Properties via Post-processing Heat Treatments." **Nanomaterials for Energy Conversion, Biomedical and Environmental Applications** 167-216. Springer Nature Singapore (publishers)
- 2) Effect of Mg₂Sn Alloy on Silicon Substrate and Its Mechanical Properties with Its Resistivity Measurement (2022) A. Ayeshamariam, S. Sivarajanani, S. Beer Mohamed, M. Ismail Fathima, M. Sivabharathy, M. Jayachandran Pages 157-166, **Nanomaterials for Energy Conversion, Biomedical and Environmental Applications** Springer Nature Singapore (publishers)
- 3) Investigation of TiO₂: Sn Properties for Sensor Analysis Deposited Using Jet Nebulizer Spray and its water Analysis, **Recent Developments in Engineering and Management** ,(2021) Tech Press, ISBN : 978-93-91697-03-7

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RESEARCH PUBLICATIONS:

1. M Mohamed Sheik Sirajuddeen, **S Beer Mohamed**, N Hajara Beevi, V Ashwin, Ikram Un Nabi lone, (2022) Spin resolved-Electronic, Magnetic and Thermodynamic properties of perovskites XTiO_3 (X= Rb, Cs) using GGA, TB-mBJ and GGA+U Potentials -A DFT approach: Canadian Journal of Physics, 101 (3) 120-131. (Impact Factor-1.358)
2. Vaidhegi Kugarajah, Kamaldeen Nasrin Nisha, R Jayakumar, S Sahabudeen, P Ramakrishnan, **S.B. Mohamed** (2023) "Significance of Microbial Genome in Environmental Remediation" Microbial Research 271, 127360. (Impact factor- 5.4)
3. S Beer Mohamed, S Anandhasan, S Basheer Ahamed, R Ajayharish, B Barathraj, R Hariprakash, M Ravichandran, C Kaviarasu (2023) " Investigation on mechanical properties of hybrid polymer composites for automobile applications, Materials Today: Proceedings 74,73-79. (Impact factor – 1.8).
4. A Sudha, NMI Alhaji, A Mohamed Saleem, S Beer Mohamed, A Ayeshamariam(2023) "Electronic properties of surface modified LiO thinfilms with H^+ implantation" Materials Today: Proceedings 77 (part2),521-552. (Impact factor – 1.8).
5. Baraneedharan, P., Vadivel, S., Anil, C.A., **Mohammed, S.B.** and Rajendran, S., (2022) Advances in preparation, mechanism and applications of various carbon materials in environmental applications: A review. *Chemosphere*, p.134596. (Impact factor – 8.9)
6. Perumal, V., Inmozhi, C., Uthrakumar, R., Robert, R., Chandrasekar, M., **Mohamed, S.B.**, Honey, S., Raja, A., Al-Mekhlafi, F.A. and Kaviarasu, K., (2022) Enhancing the photocatalytic performance of surface-Treated SnO_2 hierarchical nanorods against methylene blue dye under solar irradiation and biological degradation. *Environmental Research*, p.112821. (Impact factor – 8.4)
7. Kayalvizhi, K., Alhaji, N.M.I., Saravanakkumar, D., **Mohamed, S.B.**, Kaviarasu, K., Ayeshamariam, A., Al-Mohaimed, A.M., AbdelGawwad, M.R. and Elshikh, M.S., (2022). Adsorption of copper and nickel by using sawdust chitosan nanocomposite beads–A kinetic and thermodynamic study. *Environmental Research*, 203, p.111814. (Impact factor – 8.4)
8. Senthil R., Vijayaraghavan G.V., Ismail Fathima M., Ayesha Mariam A., **Beer Mohamed S.** and Ayesha Mariam A., (2022) Crystallization Kinetics and Characterization of Solution Grown of Leucine Phthalic Acid Single Crystals, *Asian Journal Of Chemistry* 34 (4), 931-936.
9. Mohamed Anwar P., Muruganatham S., Ismail Fathima M., Ayesha Mariam A., Beer Mohamed, S., Benahilliba M., and Kaviarasu K. (2022) Photoelectrochemical Efficiency applications of antimony doped tin oxide thin film by thermal evaporation technique, *Asian Journal Of Chemistry* 34(6),1537-1542.
10. Ikaram UnNabi, S.Vigneswaran, Mohamed Sheik sirajudeen, **S.B.Mohamed** (2021)"A density functional calculations on electronic, magnetic, optical, mechanical and half-metallic properties in molybdenum based pnictogens in GGA and GGA+U approach" *J.of Materials chemistry and physics* vol.260,124159. (Impact factor – 4.7)
11. R.Dhanaraj, **S.B Mohamed**, M.kamruddin, P.A. Manojkumar,(2021) " Strucural Properties of TiN ThinFilms Prepared by R.F. reactive sputtering" *Materials Today*, 36,146-149. (Impact factor – 2.3)
12. M.Kaviya, P.Ramakrishnan, **S.B. Mohamed**, R.Ramakrishnan, J. Gimbin, K.M.Veerabadran, M.R. Kuppusamy, T.M.Sridhar(2021)" Syntesis and characterization of nano-hydroxyapatite/graphene oxide composite materials for medical implant coating applications"*Materials Today*, 36, 204-207. (Impact factor – 1.8)

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13. G.Thiyagesan, S.Vigneswaran, **S.Beer Mohamed**, S.A.Srinivasan, Maria, B.Thirumaran, S.P. Kumaresh Babu,(2020) “ Investigation on the wear resistance of squeeze cast AA7150 under slurry conditions“ *Materials Today* 27, 2529-2532. (Impact factor – 1.8)
14. P. Kevin, Abishek Tiwari, Saravanan Seman, **S.Beer Mohamed**, R.Jayaganthan and R.k. Singh Raman (2020), Remarkable Erosion Corrosion Protection due to Cr₃Cr₂-NiCr Cermet coating on Stainless steel” *Coatings*, 10(11), 1042. (Q2 journal, Impact factor – 2.88)
15. G Ramalingam, C Ragupathi, K Kaviyarasu, D Letsholathebe, **SB Mohamed**, C Maria Magdalane, GT Mola, Abdulgaliim B Isaev, M Maaza.,(2019) “Up-scalable synthesis of size-controlled white-green emitting behavior of core/shell (CdSe/ZnS) quantum dots for LED applications” *J.Nanoscience and Nanotechnology* 19(7) 4026-4032.
16. Bindu Thomas, B. Scholastica Mary Vithiya, T. Augustine Arul Prasad, **S. B. Mohamed**, B C. Maria Magdalane, K. Kaviyarasu, and M. Maaza (2019) “Antioxidant and Photocatalytic Activity of Aqueous Leaf Extract Mediated Green Synthesis of Silver Nanoparticles Using *Passiflora edulis* f. *flavicarpa*” *J.Nanoscience and Nanotechnology*, 19 (5), 2640-2648.
17. A.Mobeen, S.K.Jasmine, R.Sundaram, C.Maria, K.Kaviyarasu Douglas, **S.B.Mohamed**, J.Kennady and M.Maaza (2018) “ Antibacterial, magnetic, Optical and humidity sensor studies of β CoMo₄ – Co₃O₄ nanocomposites and its synthesis and characterization “ *Journal of Photochemistry and Photobiology, B: Biology* Vol.183, 233-241 .
18. N. Manjula¹, K. Kaviyarasu, A. Ayeshamariam, G. Selvan, A. Diallo, G. Ramalingam, **S. B. Mohamed**, D. Letsholathebe, and M. Jayachandran (2018)“Structural, Morphological and Methanol Sensing Properties of Jet Nebulizer Spray Pyrolysis Effect of TiO₂ Doped SnO₂ Thin Film For Removal of Heavy Metal Ions *J.of nanoelectronics and Optoelectronics*, 13(10) 1543-1551.
19. S Nivetha, K Kaviyarasu, A Ayeshamariam, N Punithavelan, R Perumalsamy, A Diallo, G Ramalingam, SB Mohamed, D Letsholathebe, C Maria Magdalane, M Jayachandran, “Optical and structural properties of fluorine doped SnO₂ on Si (100) for photovoltaic application (2018)” *13 (10) 1522-1532*.
20. H.Fazil khan, S.B.Mohamed, R.Jayavel, D.Eswaramoorthy, “Synthesis and Characterization of Reduced Graphene Oxide” , *International Journal of Applied Engineering Research*, Vol. 10 No.51 (2015).
21. K.Kaviyarasu, E.Manikandan, P.Paulraj, **S.B.Mohamed** and J. Kennedy(2014) : One-dimensional well- aligned CdO nanocrystal by solvothermal method, *Journal of Alloys and Compounds*, 593, 67-70,(2014).
22. H. Nasreen, **S.B.Mohamed**, S.R.Mohideen: Microstructural Analysis and Wear Behavior of Cryogenically Treated Ti-6Al-4V Alloy, Accepted for publication in *Applied Mechanics and Materials*,(2014).
23. A.Sideky and **S.B.Mohamed**: Effect of temperature on the electrical properties of Zn_{0.95}M_{0.05}O (M=Zn,Fe,Ni),*Materials Science-Poland*,32(1),16-22,(2014).
24. A.Sideky, Tarek Ali and **S.B.Mohamed**: Correlation Between Sintering Temperature and Properties of ZnO Ceramic Varistors, published in *Journal of physics and chemistry of solids* vol.73 issue 3, 505-510 (2012).

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25. A.Sideky and **S.B.Mohamed** : Paraconductivity study in $\text{ErBa}_2\text{Cu}_{3-x}\text{M}_x\text{O}_{7-\delta}$ ($M = \text{Zn}, \text{Fe}$) superconductors, *Chin.Phys.B*, Vol.22, No.11,117401,(2013)
26. Atikur Rahman, Vipin Chawla, R. Jayaganthan,, Ramesh Chandra,R. Ambardar, and **S.B.Mohamed (2012)**: Microstructural Characterizations and High temperature Oxidation Studies of Nanostructured Co-Al Coatings deposited on Superalloy, *Trans.Indian.Inst.Met* 65(2) 205-217.
27. **S.B.Mohamed**, H.Azhan (2012): Synthesis and characterization of Si nanowires for solar cell device fabrication, To be published in *Journal of Nanoscience and Nanotechnology*.
28. L.Zhang, Y.Tan, **S.B.Mohamed** and D.E.Resasco (2009): Same-spot TEM analysis of SWNT growth on CoMo/SiO₂ catalysts, To be published in *Journal of American Chemical Society*.
29. A.Monzon,G.Lolli,S.Cosma, **S.B.Mohamed** and D.E.Resasco (2008): Kinetic modeling of the SWNT growth by CO disproportionation on CoMo catalysts, *Journal of Nanoscience and Nanotechnology* Vol.8 No.11 (2008) 6141-6152.
30. Oyanagi H., Tsukada A., Naito M., Siani N.L., Lampert M.O., Gutknect D., DresslerP., Ogawa S., Kasai K., **Mohamed S.B.**, and Fukano A; Fluorescence X-ray absorption spectroscopy using a Ge pixel array detector: application to high temperature superconducting thin film single crystals; *Journal of Synchrotron radiation* 13 (2006) 314-320.
31. **Mohamed S.B.**, Oyanagi H., Fukano A., Sato H., and Akoh H.(2005): Modification of $\text{YBa}_2\text{Cu}_3\text{O}_y$ thin films by exposure to argon plasma and Ozone : A Structural Study, *Japanese Journal of Appl.Phys.*, Vol144. No.3, 1243-1247.
32. **Mohamed S.B.**, Takaba K., Adachi T., Mori T., Yamakawa I., Ofuchi H., Tabuchi M., Takeda Y. and Nakamura A., (2005):Flourescence EXAFS analysis of ultra- thin film ErAs grown on GaAs, EXAFS 7 conference, August 1-3 p91-92, Sendai, Japan.
33. **Mohamed S.B.**, Takaba K., Adachi T., Mori T., Yamakawa I., Ofuchi H., Tabuchi M., Takeda Y. and Nakamura A., (2005):Flourescence EXAFS analysis of ErAs film grown on GaAs substrate, Japan Society of Applied physics conference, September 7-11, Tokushima, Japan.
34. Ofuchi H., Adachi T., Mori T.,Takaba K.,**Mohamed S.B.**, Yamakawa I., Tabuchi M., Takeda Y. and Nakamura A., (2005):Flourescence EXAFS analysis of GaAs/ErAs/GaAs double heterostructure, EXAFS 7 conference, August 1-3 p75-76, Sendai, Japan.
35. Takaba K.,**Mohamed S.B.**, Ofuchi H., Tabuchi M., and Takeda Y., Yoshomoto (2005):Comparision of In LIII and In K-edge of InN by EXAFS measurement, Synchrotron radiation conference proceedings, Jan 29- p20, Saga, Japan.
36. Ofuchi H., Adachi T., Mori T., Takaba K.,**Mohamed S.B.**, Yamakawa I., Takeda Y., and Nakamura A., (2005):Influence of Mn template on GaAs/ErAs/GaAs double hetero structure, Japan society of applied physics conference, March 29-31,P1536, Saitama, Japan.
37. **Mohamed S.B.**, Takaba K., Ofuchi H., Tabuchi M., and Takeda Y. (2004):Relationship between optical band gap energy and local structure of InN thin films analyzed by EXAFS, proceedings EXAFS 7 conference proceedings, July 29-31 p125-128, Kyoto, Japan.

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38. **Mohamed S.B.**, Takaba K., Nishiwaki., Ofuchi H., Tabuchi M., and Takeda Y. (2004):Local structure around In atoms in MBE-grown InN thin films analyzed by EXAFS, No.12, SPring-8 user experimental report, P-3.
39. **Mohamed S.B.**, (2004): EXAFS studies of MBE grown InN thin films, Volume 15, Venture Business Laboratory report pp.,114-115 Nagoya.
40. **Mohamed S.B.**, Oyanagi H., Sato H., Akoh H., and Sakai S.(2003):Effect of argon ion milling on the local structure of PLD grown $\text{YBa}_2\text{Cu}_3\text{O}_7$ thin film (Journal of Applied Physics).
41. **Mohamed S.B.**, Oyanagi H., Alam S., Iyo A., and Ihara H.(2003):XANES Studies on $\text{TlBa}_2\text{Ca}_2\text{Cu}_3\text{O}_y$ superconductor : role of annealing to achieve highest T_C (Published in Physica C).
42. Oyanagi H, Fonne C, Gutknecht, Dressler P, Henck R, Lampert M.O., Ogawa S, Kasai K, **Mohamed S.B.** (2002) : Ge pixel array detector for high throughput x-ray spectroscopy, Nuclear Instruments and methods in physics research A, 513 (2003) 340-344 .
43. Azhan H., Halim S.A., **Mohamed S.B.**, Kaida K., Sidek H.A.A. and Azman K. and S.Y.S. Yasainee and Faisal M.A.M. (2005) :The role of Sn substitution on Cu site of $\text{Bi}_{1.6}\text{Pb}_{0.4}\text{Sr}_2\text{Ca}_2\text{Cu}_3\text{O}_y$ superconducting ceramics, Journal Sol.Sci. and tech let.t Vol 12. No.1 &2 (2005) 422-27..
44. Yunus W.M.M., Fanny C.Y.J., Phing T.E., **Mohamed S.B.** and Halim S.A. (2002) : Thermal diffusivity measurement of Zn, Ba, V, Y and Sn doped Bi-Pb-Sr-Ca-Cu-O ceramics superconductors by photoacoustic Technique, J. Mater.Sci. 37 (5) 1055-1060.
45. Azhan H., Halim S.A., **Mohamed S.B.**, Azman K., Yusainee S.Y.S., and Sidek H.A.A. (2002) :Studies of Sn substitution on Ca and Cu sites of BSCCO superconducting system, Pertanica Journal of Sci&Tech 10.1: 135-143.
46. **Mohamed S.B.**, Halim S.A., and Azhan H. (2001) :Effect of doping Ba,Y,V,Zn and Sn on BSCCO superconducting ceramics, IEEE transactions on applied superconductivity, 11 (1) 2862-2864.
47. Halim A., Azhan H., **Mohamed S.B.**, Khalid K. and Nazlim Y.A. (2000): Superconducting Properties of $\text{YBa}_2\text{Ca}_n\text{Cu}_{3+n}\text{O}_\delta$ Ceramics J. Mater. Sci. lett. 19(20) 1847-1850.
48. Halim S. A., Khawaldeh S.A., Hashim A., **Mohamed S. B.**, Khalid K and Suraidi J. (2000) :Synthesis of $\text{Bi}_{1.5}\text{Pb}_{0.5}\text{Sr}_2\text{Ca}_2\text{Cu}_3\text{O}_y$ via sol-gel method using different acetate- derived precursors J. Mater. Sci. 35 3043-3046.
49. Sher Alam, Rahman M. O. , Ando M., **Mohamed S. B.** and Yanagisawa T. The choice of the symmetry group for the cuprates cond-mat/0004269 (April 2000)
50. EXAFS study of $\text{Tl}_{0.75}\text{Cu}_{2.5}\text{Ba}_2\text{Ca}_3\text{Cu}_4\text{O}_y$ and $\text{Cu}_{0.68}\text{C}_{.32}\text{Ba}_2\text{Ca}_3\text{Cu}_4\text{O}_y$ superconductors [bulk] at 300 K., Alam, Sher; Oyanagi, H., **Mohamed, S. B.** cond-mat/0108085 (April 2000)
51. Sher Alam, Rahman M. O. , Ando M., **Mohamed S. B.** and Yanagisawa T. The patching of critical points using quantum group cond-mat/0004350 (April 2000)
52. Halim S. A. , **Mohamed S. B.**, Hashim A, Sidek H.A.A. and.Kawaldeh S.A. (1999) : Effect of barium doping in Bi-Pb-Sr-Ca-Cu-O ceramics superconductors Physica C: Superconductors 312 78-84.

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53. Halim S.A., **Mohamed S.B.**, Azhan H. and Khawaldeh S.A. (1999) : Effect of Ba and Zn doping in $\text{Bi}_2\text{Pb}_{0.6}\text{Sr}_2\text{Ca}_2\text{Cu}_3\text{O}_y$ superconductors using ac susceptibility measurements J. Mater. Sci., 34 2813-2819.
54. Halim, S.A., Khawaldeh S.A., **Mohamed S.B.** and Azhan H. (1999) :Superconducting Properties Of $\text{Bi}_{2-x}\text{Pb}_x\text{Sr}_2\text{Ca}_2\text{Cu}_3\text{O}_y$ System Derived Via Sol-Gel And Solid State Routes. Mats. Chem Phys, 61, 251-259.
55. Halim S.A., Lam H.S., Majeed Azad A., **Mohamed S.B.** and Azhan H (1999) : The influence of Sintering Temperature on the Magnetic and Electrical Properties of $(\text{La}_{0.57}\text{Bi}_{0.10})\text{Ca}_{0.33}\text{MnO}_3$ Ceramics J. Solid St. Sci. Technol., 7 (1) 134-141.
56. Malik A.I., Halim S.A., **Mohamed S.B.**, Azhan H and Hassan Z.A (1999) :Ac Magnetic Susceptibility Studies of Low Doping Concentration of Rare Earth Elements in BSCCO System" J. Solid St. Sci. Technol Letts., 6(2) 9-14.
57. Hashim A., Halim S. A., **Mohamed S. B.**, Khawaldeh S. A., Kaida K. and Sidek H. A. A. (1999) : The Doping Effect of Sn on $\text{Bi}_{1.6}\text{Pb}_{0.4}\text{Sr}_2\text{Ca}_2\text{Cu}_3\text{O}_d$ Superconducting Ceramics Sci. Int. (Lahore), 11(2) 123-126.
58. Al-Khawaldeh Saleh A., Halim S. A., Abdul Majeed Azad, Azhan H., **Mohamed S. B.** and Jamil Suradi (1999) : Effect of sintering Temperature on the Synthesis of $\text{Bi}_2(\text{Pb})\text{Sr}_2\text{Ca}_2\text{Cu}_3\text{O}_d$ High Temperature Superconductors by Sol-Gel method, Sci. Int. (Lahore), 11(2) 127-130.
59. **Mohamed S. B.**, Halim S. A., Hashim A., Khawaldeh S. A., Kaida K. and Sidek H. A. A. (1999) :The Effect Of Yttrium on $\text{Bi}_2\text{Pb}_{0.6}\text{Sr}_2\text{Ca}_2\text{Cu}_3\text{O}_d$ Superconducting System Sci. Int. (Lahore), 11(2) 131-134.
60. Halim S. A., **Mohamed S. B.**, Azhan H., Malik A. I., Khalid K. and Hassan Z. A. (1999) : Studies on the Resistive Transition of Pb-doped Bi-Sr-Ca-Cu-O System Pertanika J. Sci. & Technol. 7(2) 99-109.
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