Dr. Arumugam Chandra Bose

Professor

Department of Physics

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citations link: https://scholar.google.co.in/citations?hl=en&user=8YX7ewYAAAAJ

Field of Specialization

Micro plasma and surface science, Nanomaterials, Metal oxides, Photocatalysts, Luminescent materials, Supercapacitors, LEDs, Bio imaging, Impedance spectroscopy, Electron microscopy

Education Background

Ph.D. in Physics, University of Madras, India, 2002

M.Phil. in Physics, Madurai Kamaraj University, India, 1995

M.Sc. in Physics Madurai Kamaraj University, India, 1993

B.Sc. in Physics Madurai Kamaraj University, India, 1991

Professional Affiliation:

Position held	Year	Institution
Professor	2018 to till date	National Institute of Technology, Tiruchirappalli
Associate Professor	2010 to 2018	National Institute of Technology, Tiruchirappalli
Assistant Professor	2007 to 2010	National Institute of Technology, Tiruchirappalli
Assistant Professor	2006 to 2007	National Institute of Technology, Tiruchirappalli

Fellowships and visiting professorships:

Position held	Year	Institution
Postdoctoral Research Fellow	2004 to 2006	Nanoarchitectonics Research Center, National Institute of Advanced and Industrial Science and Technology (AIST), Tsukuba, Japan
Postdoctoral Research Fellow	2002 to2004	NanomaterialsLaboratory NationalInstitute of Materials Science (NIMS) Tshukuba, Japan
Senior Research Fellow	2000 to 2002	University of Madras, India
Research Scientist	1999 to 2000	University of Madras, India
Project Fellow	1996 to 1999	University of Madras, India

Ph.D. Students Completed:

S.No.	Name	Year
1	Dr. R. Srinivasan	2007-2011
2	Dr. N. Rajeswari Yogamalar	2007-2011
3	Dr. K. Venkateswaralu	2009-2014 (As a co-guide)
4	Dr. A. Chithambararaj	2009-2015
5	Dr. T. Selvalakshmi	2011-2016
6	Dr. R. Dhanabal	2012-2018 (VIVA on 11/09/2018)
7	Dr. P. Muhammed Shafi	2013-2018 (VIVA on 10/10/2018)
8	Dr. Nikitha Joseph	2015- 2021 (VIVA on 22/01/2021)
9	Dr. A. Juliet Christina Mary	2015-2021 (VIVA on 25/01/2021)
10	Dr. K. Venkatesh	2014-2021 (VIVA on 21/01/2022)
11	Dr. D. Naveena	2016-2022 (VIVA on 03/03/2023)
12	Dr. B. Priyadharshini	2016-2023 (VIVA on 13/10/2023)
13	Dr. Harikrishnan	2018- 2024 (VIVA on 13/03/2024)

Ongoing:

S.No.	Name	Year of Joining
1	Aravind Prasad	2018
2	Balamurugan R	2019
3	Siva Shalini S	2019 Thesis submitted on October 2024
4	Ajin I	2021
5	Lavaneethan T	2023
6	Muthuchamy C	2024

Awards and Recognition

1. Top2% scientist Standford Ranking -2023
2. Fellow of Indian Chemical Society (FICS) -2023
3. Fellow of Royal Society Chemistry (FRSC) -2019
4. Faculty award - 2019 (Category: paper publication and citations)
5. Faculty award - 2018 (Category: paper publication and citations)
6. Faculty award - 2017 (Category: paper publication and Project)
7. Fellow Academy of Science, Chennai -2015
8. Chaired a session in IMEC 2014 – NIT, Tiruchirappalli
9. Chaired a session in ICEAN -2012 – Brisbane, Australia
10. Young Achiever Award - DAE Symposium -2010
11. Best Teacher Award in NIT- 2010
12. Young Scientist Award – DST grant 19.2 Lakhs – 2008
13. Senior Research Fellowship of CSIR, India – 2000
14. Young Scientist Award (Travel grant) – International School on powder diffraction, Indian Association for the Cultivation of Science —1998

Reviewers Experience

ACS, RSC, Springer, AIP, Elsevier

Invited presentations, keynote talks and seminars

S. No.	Invited presentations, keynote talks and seminars
67	Delivered lecture on Nanomaterials and its applications organized by the Tamilnadu Academy of Sciences, Chennai, Summer Training Programme (STP-2024), 06 June, 2024.
66	Delivered lecture on Design and Synthesis of Nanomaterials for clean and Renewable Energy organized by the Karpagam Academy of Higher Education, Coimbatore, funded by SERB sponsored International Conference on Recent Advancements in Materials Science and Technology, 30 January, 2024.
65	Delivered lecture on Design and Synthesis of Nanomaterials for clean and Renewable Energy by the Department of Chemistry, National Yang Ming Chio Tang University, Taiwan, funded by CPDA, 17 January, 2024.
64	Delivered lecture on NDT for quality life, Summer Training Programme (STP) in Physics organized by the Department of Materials Science, University of Madras funded by Science City, Department of Higher Education, Government of Tamil Nadu.26, June, 2023
63	Delivered lecture on Electron Microscopy: Study on Nanomaterials, Synergistic Training Program Utilizing the Scientific and Technological Infrastructure (***STUTI-23***)., DST sponsored, and organized by NIT Trichy (Spoke), and NIT Warangal (Hub), January 30, 2023.
62	Delivered inaugural lecture on Workshop on Nanomaterials for Emerging Applications, organized by Dr. Justin, Department of Physics, NIT, Trichy, February, 2022.
61	Delivered webinar FDP lecture on Nanomaterials for energy and environmental applications (8-21, September, 2021), Department of Physics, Bharathiar University, Coimbatore, September 14, 2021.
60	Delivered lecture of two session on Quantum Physics -Six-Day Faculty Development Training Programme - Online (Summer Vacation 2021) on “Engineering Physics”Organized by Indra Ganesan College of Engineering, Trichy, June 17, 2021.
59	Delivered webinar seminar on Nanomaterials Short-term Certificate Course on Nano Technology and its Applications, organized byRajiv Gandhi National Institute of Youth Development (RGNIYD), Sriperumbudur, April 29, 2021.
58	Delivered invited talk in International E-conference on Advanced Materials science (ICAMS -2021) on Nanomaterials for energy and environmental applications,organized by Department of Physics, Vivekanadha College of Arts and Science for Women, Tiruchengode, March 3-4, 2021.

57	Delivered webinar seminar on Nanomaterials for energy and environmental applications,organized by Department of Physics, Ramco Institute of Technology, Rajapalayam,January 29, 2021.
56	Delivered webinar workshop for FDP on Nanomaterials synthesis, characterization and Application (24-29, June2020), Department of Physics, GCT, Coimbatore, June 24, 2020.
55	Delivered Invited International Conference on Material and Technology- Synthesis processing and Applications -(ICMAT-SPA) 2020, Department of Physics, SRNM College– Sattur, March 14, 2020.
54	Delivered lecture International Conference on Advanced Materials ICAM 2020 organized by Department of Physics, St. Mary's College– Thoothukudi, January 31, 2020.
53	Delivered keynote address on International Conference on Advanced Nanomaterials (ICAN 2019), organized by Department of Physics, Chettinad college of engineering and technology, Karur,December13, 2019.
52	Delivered lecture on National Conference on Frontiers in Advanced Physics (NCFAP -2019), organized by Department of Physics, Vivekanadha College of Arts and Science for Women, Tiruchengode, February 7, 2019.
51	Delivered lecture on State level seminar on Recent Trends in Physics, organized by Department of Physics, Arul Anandar College, Karumattur, Mduarai Kerala, February 5, 2019.
50	Delivered lecture on International conference on MESMAC-3, organized Department of Physics, MES Mampad College, Calicut, Kerala, January 15-17, 2019.
49	Delivered lecture on Nanomaterials, in one day conference, organized Department of Physics, RVS Kumaran Arts and Science College, Dindugal, March 23, 2018.
48	Delivered lecture on Nanomaterials: characterizations, in short term course, organized Department of Physics, BDU Tamilnadu, March 16, 2018.
47	Delivered lecture on Nanomaterials: characterizations,in one day conference, organized Department of Physics, Avinashalingam college for women, Coimbatore, February 15, 2018.
46	Delivered lecture on Nanomaterials: synthesis, characterization and application,in short term course, organized Department of Physics, BDU Tamilnadu, December 20, 2017.
45	Delivered lecture on Nanomaterials: synthesis, characterization and application, organized, Department of Physics, CUTN (Central University of Tamilnadu, July26, 2017.
44	Delivered lecture on Findings on visible light driven photo catalysis, organized RSC-NITT symposium on heterogeneous catalysis and sustainable chemistry. Department of chemistry, NITT, November 5, 2016.

43	Delivered lecture on Nanomaterials characterization, organized TEQIP sponsored workshop, Department of Physics, NITT, August26, 2016.
42	Delivered lecture on Nanomaterials:Synthesis, characterization and applications, organized UGC Sponsored National Conference on "Thinflims and Nanotechnology, ANJA College Sivakasi, February 26, 2016.
41	Delivered lecture on Nanomaterials: Synthesis, characterization and applications, organized TEQIP-II sponsored Faculty Development Programmes on Advanced Research in Materials for Engineering and Technological Applications (ARMETA-2015),Department of Physics, Anna University, Trichy, July 27, 2015.
40	Delivered lecture on Synthesis, characterization and applications –photo catalysis for wastewater treatment, AICTE Sponsored FDP programme on "Modern technology for sustainable development from waste, Mohamed Sathak Polytechnic College, Kilakarai, February 28, 2015.
39	Delivered Invited Lecture in workshop on “Elemental, compound and phase analysis byPowder X-ray diffraction” during 19-20th Sept. 2014, Department of Physics, NIT, Trichy.
38	Delivered Invited Lecture in characterization of materials in chemical sciences,Department of chemistry, NIT, Trichy, June 11, 2014.
37	Delivered lecture on Synthesis, characterization and applications of nanomaterials, UGCSponsored National Conference on "Physics for Interdisciplinary Advancements, J.A Collegefor Women, Periyakulam, February 7, 2014.
36	Delivered Invited Lecture in Short Term Course on "Applications of Nanotechnology in Mechanical Engineering” by Department of Mechanical Engineering, NIT, Tiruchirappalli, 19 December 2013.
35	Delivered lecture on Synthesis and characterization of Nanomaterials, UGC – Refresher Course, Madurai Kamaraj University, Madurai, November- 15, 2013.
34	Delivered lecture on Nanomaterials for engineering applications, INSPIRE school Programmes, DST sponsored, PSR Engineering College, 11thOctober 2013.
33	Delivered lecture on Synthesis, Characterization of Oxide Nanomaterials for Engineering applications, Advanced Materials Processing, Characterization and Applications, PSN college of Engineering and Technology, January 23-25, 2013.
32	Delivered lecture on Nanomaterials, UGC – Refreshser Course, Bharathidasan University, Trichy. November- 23, 2012.
31	Delivered Invited Lecture in Short Term Course on "Engineering Materials and Manufacturing Methods (EM3-2012) by Department of MME, NIT, Tiruchirappalli, 28 June 2012.
30	Delivered Invited Lecture and valedictory address in the workshop on Multifunctional Nanomaterials and their engineering applications, by Department of Science and Humanities, KPR Institute of Engineering and Technology, Coimbatore, 27-28, April 2012.

29	Delivered Invited Lecture in the workshop on Nanomeasure 2011, by Department of Physics, NGM College, Pollachi, 15-16, September 2011.
28	Delivered Invited Lecture for seminar at Department of Physics, Velammal Engineering College, Madurai – March 18, 2011.
27	Delivered Invited Lecture for seminar at Department of Physics, Scott Christian College, Nagercoil – March 4, 2011.
26	Delivered Young Achiever Award Presentation, 55th DAE symposium, Manipal University, December 26-30, 2010.
25	Delivered Invited Lecture at Department of Physics, Jamal Mohamed College,Tiruchirappalli, October 2010.
24	Delivered keynote address at Department of Polymer Technology, Kamaraj College of Engineering and Technology, Virudhunagar – March 30, 2010.
23	Delivered Invited Lecture for Short term course on Nanoscience and Nanotechnology, at Department of Chemical Engineering, Govt. College of Engineering, Trissur – January 20, 2010.
22	Delivered Invited Lecture at Department of Metallurgy and Materials Engineering, NIT, Trichy – June 9, 2009.
21	Delivered Invited Lecture at Department of Physics, Fatima National College, Kollam – March 23, 2009.
20	Delivered Invited Lecture at Department of Polymer Technology, Kamaraj College of Engineering and Technology, Virudhunagar – January 9, 2009.
19	Delivered Invited Lecture at Department of Physics, Ayya Nadar Janaki Ammal College, Sivakasi – September 27, 2008.
18	Delivered Invited Lecture at Department of Physics, Erode Arts College, Erode "National Level Seminar on Nanotechnology" – August 30, 2008.
17	Delivered Invited Lecture at Department of Nuclear Physics, University of Madras, Chennai "Workshop on Nanostructured Materials", July 04, 2008.
16	Delivered Invited Lecture at Department of Polymer Technology, Kamaraj College of Engineering and Technology, Virudhunagar – March 21, 2008.
15	Delivered Invited Lecture at Department of Production Engineering, NIT, Tiruchirappalli – March 6, 2008.
14	Delivered Invited Lecture at Department of Metallurgy and Materials Engineering, NIT, Tiruchirappalli– February 24, 2008.
13	Delivered Invited Lecture at Department of Metallurgy and Materials Engineering, NIT, Trichy – February 23, 2008.
12	Delivered Invited Lecture at Department of Physics, NIT, Trichy – February 23, 2008.
11	Delivered Invited Lecture at Department of Physics, Velammal college of Engineering, Madurai – February 15, 2008.
10	Resource person for UGC-refresher course, UGC-Academic Staff College, Bharathiar University, Coimbatore – February 4, 2008.

9	Delivered Invited Lecture at Department of Physics, SRNM College, Satur – January 25, 2008.
8	Delivered Invited Lecture at JNCSR, Bangalore in Indo-Japan workshop – December 18, 2007.
7	Delivered Lecture at INT, Karslruhe, Germany during a month visit – December 4, 2007.
6	Delivered Invited Lecture at Department of Physics, NIT, Trichy – October 13, 2007.
5	Delivered Invited Lecture at Department of Physics, St. Joseph College, TrichyOctober 8, 2007.
4	Delivered Invited Lecture at Department of Physics, Karunya University, Coimbatore, September 29, 2007.
3	Delivered Invited Lecture at Department of Physics, Government college of Engineering, Salem February 14, 2007.
2	Delivered Invited Lecture at Department of Physics, Manonmanian SudaranarUniversity, Tirunelveli – January 25, 2007.
1	Delivered Invited lecture at National conference on Nanomaterials, National Institute of Technology, Tiruchirappalli – 2-3, December-2006.

Board of Studies Members

1. Mepco Schlenk Engineering College, Sivakasi
2. Dhanalakshmi Srinivasan University (DSU), Tiruchirappalli
3. Velammal College of Engineering & Technology, Madurai
4. Dhanalakshmi Srinivasan College of Arts and Science for Women, Perambalur
5. Bharathidasan University, Tiruchirappalli
6. Aarupadai Veedu Institute of Technology (AVIT), Vinayaka Mission's Research Foundation
7. Paiyanoor
8. Mahendra Engineering College, Namakkal
9. ANJAC college, Sivakasi
10. Dr SNS Rajalakshimi College of Arts and Science, Coimbatore
11. Care college, Trichy

As Symposium Organizer and Conference Chair/Organizers in National and International Conferences

- One day programme INPHYNIT-T’23, 7th March 2023, Department of Physics, NIT, Trichy

- One day programme INPHYNIT-T'17, 24thFebruary 2017, Department of Physics, NIT, Trichy
- One day programme INPHYNIT-T'16, 23rd February 2016, Department of Physics, NIT, Trichy
- Two day workshop on "Advanced NDT techniques", October 4-5, 2013, Department of Physics, NIT, Trichy
- Short term course on Materials Characterization, 03-07 December 2012, **A. Chandra Bose,** and R. Justin Joseyphus
- One day training program on "Demonstration on Physics experiments for schoolteachers" December 2006 organized by Department of Physics, NIT, Trichy
- Two day workshop on "Non-Destructive Evaluation", October, 2007, Department of Physics, NIT, Trichy

Project Details:

S. No.	Project Name	Funding Agency	Date	Sanction No.	Amount INR
1.	Development of microplasma spraying technique for the preparation of nanomaterials for gas sensor applications	DST-Fast Track (Completed)	2007-2010	SR/FTP/ETA -31/07 dated: 18.10.2007	19,80,000/-
2.	Development and characterization of onedimensional oxide nanomaterials for gas sensing applications	NRB-DNRD (Completed)	2009-2012	DNRD/05/40 03/NRB/143 dated: 15/8/2008	28,22,000/-
3.	Synthesis and Characterization of	DST-Nano-Mission	2009-2012	SR/NM/NS-27/2008	5,72,32,000/-

	Nanomaterials for Engineering Applications.				
4.	Fabrication of La-based perovskite oxides and its composite material for Energy Storage Application	DST SERB	2017-2020	EMR/2016/002115	33,49,348/-
5.	Novel Technology for Residual Methane Abatement in Automotive Applications	SPARC	2023-25	SPARC/2019-2020/P2016/SL	41,36,120/-

Membership in Professional bodies

1. Life member –MRSI (Materials Research Society of India)(LM414)
2. Life member –Indian Physics Association (LM12416)
3. Life member –ISNT (Indian Society for Non Destructive Testing) (LM8442)

Abroad Visit

1. Institute of Nanotechnology, Karlsruhe, Germany (November-December 2007)
2. Nanoarchitechtonicscentre, NIMS, Japan (June-July 2008)
3. International Conference on Materials for Advanced Technologies (ICMAT-2013), Suntec Singapore, June 30 – 5 July 2013.
4. International Conference on Materials, Australia
5. International Conference on Materials, Dubai
4. National Yang Ming Chio Tang University, Taiwan, 15-21, January, 2024.

S.No.	**Awards received by my students in conferences.**
15	**Best Poster Award:** *$CeCrO_3$ Nanomaterials: A Promising Electrode Material for Enhanced Supercapacitor Performance,* M J. Devikasree, I. Ajin, R. Balamurugan, and **A. Chandra Bose**, 2nd International Conference on Multifunctional Materials and Radiation Measurements (ICMMRM-24), held at SSN college, Chennai, March 14-15, 2024.
14	**Best Poster Award:** *Surface Nitridated Silver Direct-Growth on Carbon Cloth for Active Hydrogen Evolution Reaction Catalyst*, R. Balamurugan, and **A. Chandra Bose**, presented in 67th DAE -Solid state symposium in Gandhi Institute of Technology and Management (GITAM) Visakhapatnam, Andhra Pradesh, India, during Dec 20-24, 2023.
13	**Best Poster Award:** *Systematic investigation on the electrochemical performance of pristine silver metal–organic framework as the efficient electrode material for supercapacitor application*, S Siva Shalini, R Balamurugan, S Velmathi, **A Chandra Bose**, Presented in Emerging Chemistry Trends: Innovations And Sustainable Solutions Symposium in National Institute of Technology, Thiruchirappalli, Tamil Nadu, India, during Dec 01, 2023.
12	**Best Poster Award:** *A Facile Hydrothermal Synthesis of $CeNiO_3$ Perovskite Oxides for Supercapattery Applications,* M.P Harikrishnan and **A. Chandra Bose**, International Conference on Novel Engineering Materialsfor Biomedical, Energy, Environment, Sensing, And Other Applications (ICON-BEES -21), Department of Physics, NITT, March 11-13, 2021.
11	**Best poster Award:** *Surfactant Assisted $ZnCo_2O_4$ nanomaterials for supercapacitor applications*, A Juliet Christina Mary and **A. Chandra Bose,** 4th International conference on Nanoscience and Nanotechnology (ICONN2017), Department of Physics, SRM University, Chennai, August 9-11, 2017.
10	**Best poster Award: (won second prize)***Achieving high capacitance in $ZnCo_2O_4$ nanomaterial through different synthesis approach,* S Thilagavathi, A Juliet Christina Mary and **A. Chandra Bose**, Two days international conference

	on Renewable energy science and Technology (ICREST-2017), Department of Energy Science, Alagappa University, Karaikudi, March 10&11, 2017.
9	**Best poster Award:** *Reduced Graphene Oxide Wrapped Ag_3PO_4, composites:Investigations on StructuralOptical and Photocatalytic Properties*, R. Dhanabal, S. Velmathi and **A. Chandra Bose**, RSC-NITT symposium on heterogeneous catalysis and sustainable Chemistry, Department of chemistry, NITT, November 5, 2016.
8	**Best poster Award:** *Autoclave mediated selective phase synthesis of MoO_3 nanocrystals for enhanced optical and electrical properties*, A. Chithambararaj and **A. Chandra Bose**, 5 th DAE-BRNS Interdisciplinary Symposium on Materials Chemistry (ISMC 2014), Anushakti Nagar, BARC, Mumbai, Dec 09-13, 2014.
7	**Best Oral Presentation award**: Investigation on structural and thermal properties of Ammonium Heptomolybdate (AHM), D. Bhagya Mathi, A.Chithambararaj, and **A. Chandra Bose**, National Seminar on Technologically Important Crystalline and Amorphous Solids (**TICAS 2014**), Kalasalingam University, KrishnanKovil, February 28- March 1, 2014.
6	**Best Paper Award:** "*Synthesis of 1D h-MoO_3 by solution-based precipitation methods and investigations on gas sensor applications"*, A. Chithambararaj and **A. Chandra Bose** in the National conference on advances in naval materials (ADAM-2013), NIOT, Chennai, Feb. 22-23, 2013.
5	**Best Poster Award**: "*Effect of mineralizer (KNO_3) on the structural and optical properties of h-MoO_3 nanocrystals*", A. Chithambararaj and **A. Chandra Bose** in the International conference on advances in materials and processing, challenges and opportunities (AMPCO 2012), IIT, Roorkee, Nov. 2-4, 2012.
4	**Best Ph.D. Thesis award** in science stream at NITT – 2011- Dr R. Srinivasan
3	**Best M.Sc. Thesis award** in 56th DAE Symposium (Miss. R. Yoga) – December 2011
2	**Third prize for poster presentation** award in Symposium Bio-Nanotechnology by CARE (Chettinad Academy of Research and Education) (Miss T. Selvalakshmi) - July 15-16, 2010

1	**Best M.Sc. Thesis award** in 54th DAE Symposium (Mr. R. Mahendran) – December, 2009

Book Chapters:

S.No.	Publication
2024	
3	Flexible Sustainable Supercapacitors, S. Siva Shalini, R Balamurugan, I Ajin**, A. Chandra Bose,** Sustainable Supercapacitors: Next-Generation of Green Energy Storage Devices - Wiley-Scrivener Publishing (USA) (2024)
2023	
2	Functionalization techniques for the development of metal-oxide/hydroxide-based supercapacitors, R. Balamurugan, S. Siva Shalini, I. Ajin and **A. Chandra Bose** - Springer Book-Functionalized Nanomaterials Based Supercapacitor - Design, Performance & Industrial applications (2023)
2022	
1	Glucose Biosensing with Gold and Silver Nano Particles: For Real-Time Applications R. Balamurugan, S. Siva Shalini, M.P. Harikrishnan S.Velmathi and **A. Chandra Bose**, Chapter in the book edited by S.K. Sahoo and Publisher Elsevier, 2023

List of Papers Published in Journals

S.No.	Publication
2025	
179	Hierarchical Nanoporous Carbons with an Integrated Activation using 3D Flower-like ZnO Microspheres and KOH for Flexible EDL Capacitor with a High Operating Potential, R. Balamurugan and **A. Chandra Bose** and A. Vinu, *Small*, (2025) *In press.*
178	Fuel-Dependent Combustion Synthesis of $CeCrO_3$ Nanomaterials: Morphological Control and Its Impact on Electrochemical Properties and Device Applications, MJ. Devikasree, I. Ajin, R. Balamurugan and **A. Chandra Bose**, *Electrochimica Acta*, (2024) 145411.
2024	
177	Synergetic Interplay of MnNi-MOF Composite with 2D MXene for Improved Supercapacitor Application, S. Siva Shalini, and **A. Chandra Bose** *Chemical Engineering Journal*, (2024) 500, 156751.

176	Beyond barrier function: Exploring the potential of polymer coatings for high-performance Aluminium-air Batteries, A. B. Aravind, **A. Chandra Bose**, K. Ramya, *ACS Applied Energy Materials*, (2024), 7(18), 7915–7926.
175	Investigation of X-ray Peak Broadening in Magnesium Oxide Nanoparticles Through Williamson-Hall Analysis, R Srinivasan, N Karthikeyan, P Thiruramanathan, T Arun, **A Chandra Bose,** *Journal of Molecular and Engineering Materials*, (2024) *In press*.
174	Single step solid state synthesis of carbon nanoparticles for instantaneous detection of Fe (III) in water samples, K Anusuyadevi, A. Chandra Bose, S Velmathi, Single step solid state synthesis of carbon nanoparticles for instantaneous detection of Fe (III) in water samples, K Anusuyadevi, AC Bose, S Velmathi Journal of Fluorescence 34 (5), (2024) 2219-2227
173	Effects of Potassium-Based Activating Agents on the Biochar Derived from Coconut Tree Husk for Enhancing Surface Area and Supercapacitor Performance, I. Ajin, and **A. Chandra Bose**, *ACS Energy & Fuels*, (2024), 38(12), 11240–11252.
172	Surface Sulfurized Zn-MOF Grown on Ni-foam with Various Sulfurizing Agents for Aqueous Hybrid Supercapacitor Device Fabrication, R. Balamurugan, and **A. Chandra Bose**, *ACS Applied Energy Materials*, (2024), 7(3), 974–985.
2023	
171	Solvent Assisted Morphology Induced Nickel Metal-Organic Framework as a Highly Efficient Electrode for Energy Storage Application, S. Siva Shalini, and **A. Chandra Bose**, ACS Energy & Fuels, (2023), 951, 117895.
170	Caffeine Additive Based Nanoarchitectonics of Methylammonium Lead Iodide ($MAPbI_3$) Perovskite Solar Cell Device: Investigations on Charge Carrier Properties Using AC Impedance Spectroscopy, R. Dhanabal; K. Dhivyaprasath, M. Ashok, K. Madhuri, **A.Chandra Bose**, and Suhash Ranjan Dey, *Journal of Materials Science: Materials in Electronics*, (2023), 34(33), 2205.
169	Design and Development of Diamond-shaped Silver-Trimesic Acid based Metal-Organic Framework for High-performance Supercapacitor Application,, S. Siva Shalini, and **A. Chandra Bose***, Journal of Electroanalytical Chemistry,* (2023), 117895.
168	Single Step Solid State Synthesis of Carbon Nanoparticles for Instantaneous Detection of Fe (III) in Water Samples, K. Anusiyadevi, **A. Chandra Bose** and S. Velmathi, *Journal of Fluorescence*, (2023), 1-9.
167	Fabrication of Flexible and Aqueous Hybrid Supercapacitors with Diffusion Channels Contained Copper Cobalt bi-Metal Organic Framework Nanosheets and Ionic Conductivity Optimized Semi-Solid Electrolyte, R. Balamurugan, **A. Chandra Bose,** *Electrochemica Acta,* (2023), 467, 143078
166	Tailoring the perovskite structure to acquire an inorganic La_2NiCrO_6 double perovskite as an efficient energy storage application by varying molar concentrations of citric acid, I. Ajin, R. Balamurugan, **A. Chandra Bose,** *ACS Applied Energy Materials*, (2023), 6 (18), 9764–9777

165	Facile single step synthesis of carbon nano-sponges as a fluorimetric sensor for 4-nitroaniline and pseudocapacitor, K Anusuyadevi, R Balamurugan, **A. Chandra Bose**, S Velmathi, Materials Today Chemistry, (2023), 32, 101659
164	Development of different nanostructured nickel oxide (NIO): Investigations on highly efficient asymmetric solid state supercapacitor device, R. Dhanabal, A. Juliet Christina Mary, Suhash Ranjan Dey, and **A. Chandra Bose**, *Journal of Solid State Electrochemistry*, (2023), 1-12
163	Fabrication of Cerium Nickel Oxide ($CeNiO_3$) Nanoparticle on Vanadium Tetra Sulphide (VS_4) Nanosheet Composite Materials as an Enhanced Electrode for Supercapacitor Applications, P. Harikrishnan, P. Naveena, N. Baskaran and **A. Chandra Bose,** *Electrochemica Acta,* (2023) *4*62, 142729.
162	Recent Advances and Future Perspectives of VS_4 and its Nanostructure Composites for Supercapacitor Applications: A Review, P. Harikrishnan, and **A. Chandra Bose,** *ACS Energy & Fuels, (*2023) 37 (15), 10799–10826
2022	
161	Binder-free Synthesis of Cerium Nickel Oxide for Supercapattery Devices, M. P. Harikrishnan, and**A. Chandra Bose,** *International Journal of Energy Research,* (2022) 46 (15), 21826-21840.
160	Porous $CeNiO_3$ with enhanced electrochemical performance and prolonged cycle life (> 50000 cycles) via lemon-assisted sol-gel auto combustion method, M. P. Harikrishnan, and**A. Chandra Bose,** *New Journal of Chemistry*, (2022) 46, 15118-15129.
159	Facile Synthesis of the Porous MnMo6S8 for Highly Stable Pseudocapacitor, R. Balamurugan, S. Siva Shalini, and **A. Chandra Bose,** *Journal of Materials Science: Materials in Electronics*, (2022) 33(23), 18231-18240.
158	One-Pot Synthesis of Porous Crystal Structured Nanosponge-Like Pristine Copper Metal-Organic Framework for Hybrid Supercapacitor Application, R. Balamurugan, S. Siva Shalini, S. Velmathi and **A. Chandra Bose**, *New Journal of Chemistry*, (2022) *46*(29), 14020-14029.
157	Systematic Investigation on the Electrochemical Performance of Pristine Silver Metal−Organic Framework as the Efficient Electrode Material for Supercapacitor Application, S. Siva Shalini, R. Balamurugan, S. Velmathi and **A. Chandra Bose,** *ACS Energy &Fuels*, (2022) 36(13), 7104-7114
156	Investigating the effect of La doped CuO thin film as absorber material for Solar cell application, D. Naveena, R. Dhanabal, **A. Chandra Bose,** *Optical Materials*, 127 (2022) 112266
2021	
155	Three Dimensional NiO Nanonetwork Electrode for Efficient Ultra-fast Electrochemical Energy Storage Application, Nikhitha Joseph, P Muhammed Shafi, JS Sethulakshmi, Raj Karthik, **A. Chandra Bose**, Jae-Jin Shim, *Electrochimica Acta*, (2021), 139392.

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Conferences, Symposiums and Workshops

S.No.	Conference Presentation
2024	
151	Surface Sulfurized Zn-MOF Grown on Ni-foam with Various Sulfurizing Agents for Aqueous Hybrid Supercapacitor Device Fabrication, R. Balamurugan, and **A. Chandra Bose**, Lin Yu-Fan, Chen Chen- Yu, Presented in 19th National Conference on Hydrogen Energy & Fuel Cells, National Chin-Yi University of Technology, Taichung, Taiwan, during Sep, 20-21, 2024.
150	$CeCrO_3$ Nanomaterials: A Promising Electrode Material for Enhanced Supercapacitor Performance, M J. Devikasree, I. Ajin, R. Balamurugan, and **A. Chandra Bose**, 2nd International Conference on Multifunctional Materials and Radiation Measurements (ICMMRM-24), held at SSN college, Chennai, March 14-15, 2024.
2023	
149	Surface Nitridated Silver Direct-Growth on Carbon Cloth for Active Hydrogen Evolution Reaction Catalyst, R. Balamurugan, and **A. Chandra Bose**, presented

	in 67th Solid state symposium in Gandhi Institute of Technology and Management (GITAM) Visakhapatnam, Andhra Pradesh, India, during Dec 20-24, 2023.
148	Exploration of Lanthanum-based perovskites for pseudocapacitive electrode applications, I. Ajin, and **A. Chandra Bose**, presented in 67th Solid state symposium in Gandhi Institute of Technology and Management (GITAM) Visakhapatnam, Andhra Pradesh, India, during Dec 20-24, 2023.
147	MOF-derived Zinc Sulfide for Flexible Hybrid Supercapacitor, R. Balamurugan, & **A. Chandra Bose**, presented 7th International Conference on Nanoscience and Nanotechnology (ICONN 2023) organized by SRM IST, India during March 27-29, 2023.
146	Surfactant assisted Nickel Metal Organic Framework as Highly Efficient Supercapacitor Electrode, S. Siva Shalini, & **A. Chandra Bose**, presented 7th International Conference on Nanoscience and Nanotechnology (ICONN 2023) organized by SRM IST, India during March 27- 29, 2023.
145	Sol-gel synthesis of $NiMnO_3$ perovskite for supercapacitor applications, I. Ajin and **A.Chandra Bose,** presented in International Conference on Advances in Renewable Energy (CARE-2023), HRI, Prayagraj, India, during Feb 02-04, 2023
2022	
144	Structural and electrochemical characterization of Manganese Metal Organic Framework as an Effective Electrode for Supercapacitor Application, R. Balamurugan, S. Siva Shalinia, S. Velmathi, and **A. Chandra Bose**, presented in 66th Solid state symposium in Brila Institute of technology Mesra, Ranchi, Jarkhand, India, during Dec 18-22, 2022
143	Systematic Investigation on Electrochemical Performance of Temperature-Assisted Cobalt Metal-Organic Framework for Pseudocapacitor Electrode Application, R. Balamurugan, S. Siva Shalinia, S. Velmathi, and **A. Chandra Bose**, presented in 66th Solid state symposium in Brila Institute of technology Mesra, Ranchi, Jarkhand, India, during Dec 18-22, 2022
142	Investigation on $SrCoO_3$ perovskites for supercapacitor applications, I. Ajin, R. Balamurugan, S. Siva Shalinia and **A.Chandra Bose**, presented in 66th Solid state symposium in Brila Institute of technology Mesra, Ranchi, Jarkhand, India, during Dec 18-22, 2022
141	Fabrication and Inspection of Complex Composite Reference Standard Using 10 Axes C-scan Squirter Ultrasonic Equipment, Jasinraj P M, **A.Chandra Bose** and Santhakumar C S, NDE 2022 Conference and Exhibition, to be held in Gandhinagar, Gujarat during November 24-26, 2022.
2021	
140	Hydrothermal Synthesis of AgBr as flexible electrode Material for Effective Supercapacitor Application, S. Siva Shalini, R. Balamurugan, and **A. Chandra Bose.** The 65th DAE Solid State Physics Symposium (DAE SSPS 2021) to be held at DAE Convention Centre, Anushakti nagar, Mumbai-94 during December 15-19, 2021
139	Cavity and Diffusion Channel Structured $MnMo_6S_8$ Nanoflakes for Flexible Supercapacitor Electrode Application, R Balamurugan, S Siva Shalini; Vishal Singh; **A. Chandra Bose**. the 65thDAE Solid State Physics Symposium (DAE

	SSPS 2021) to be held at DAE Convention Centre, Anushaktinagar, Mumbai-94 during December 15-19, 2021
138	Facile Synthesis of Bi-metal sulfate For Highly-Stable Pseudocapacitor, R.Balamurugan and **A. Chandra Bose** Virtual International Conference on Advances in Sustainable Research for Energy and Environmental Management (ASREEM-2021) organized by Department of Chemical Engineering, Sardar Vallabhbhai National Institute of Technology, Surat (India) on August 06 – 08, 2021
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5	The 42nd DAE Solid State Physics, India, Dec. 20-24, 1999, organized by IGCAR, Kalpakkam, Paper presented on "Indigenously Developed UHV Chamber - Preparation and Characterization of Nanostructured MnF_2". S. Ramasamy, B.Purniah, R.N. Viswanath, **A.Chandra Bose**, N. Ponpandian, K. Thomaskutty and A. Narayanasamy.
4	Ninth Annual General Meeting of Materials Research Society of India, Madras Chapter, Feb.11-13, 1998. Paper presented on "High Temperature Impedance Spectroscopy studies on TiO_2- SiO_2 Nanocomposites". **A.Chandra Bose**, R. N. Viswanath and S. Ramasamy.
3	National Seminar on Nanostructured Materials, Mar. 16-17, 1998, organized by Department of Nuclear Physics, University of Madras. Paper presented on "Phase

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1	The 5th International Conference on Nanostructured Materials, Sendai, Japan, Aug. 19-22 "Synthesis and Characterization of Nanocrystalline RuO_2-ZrO_2". **A. Chandra Bose**, R. Ramamorthy, S. Ramasamy.

M.Sc.and M.Tech. Project title

S. No.	Name of the student/Research scholar	Title of thesis	Doctorate or Master's level	Year of completion (or in progress)
71	Mashhoor A M	Optimization of PAUT for through Scanning of Complex Composite Parts used in Aircrafts	M.Tech.	2024
70	Devikasree M J	$CeCrO_3$ Nanomaterials: A Promising Electrode Material for Enhanced Supercapacitor Performance	M.Sc.	2024
69	Puneet Mai Tripathi	Preparation and Morphological characterization of Nickel Sulfide	M.Sc.	2023
68	M.K. Manick Gnana Chellan	Exploring the electrochemical cherge storage and structural properties of $LaFeO_3$ synthesized via Acid mediated preparations methods	M.Sc.	2023
67	Jaisinraj P M	Fabrication and Inspection of Honeycomb Composite Calibration Reference Standard Using C-scan Ultrasonic Equipment	M.Tech.	2023
66	AkshayKhandare	Staggered Electromagnetic Acoustic Transducer (EMAT), Defect detection and Focusing EMAT	M.Tech.	2022
65	Swatantra Dixit	Multipoint density measurement through Ultrasonic Guided Wave	M.Tech.	2022
64	Nishant Srivastava	Facile Synthesis of $SrCoO_3$Perovkite for Supercapacitor Application	M.Sc.	2022
63	Vishal Singh	Bimetal Sulfide for Supercapacitor Application	M.Sc.	2021
62	Manisha Patro	Synthesis, Characterization and Electrochemical Studies Of Nickel Sulfide	M.Sc.	2021

61	Girish Gautam	Weld Improvement of FSW Butt Joint of Al-Alloy Plate And Inspection Of Root Defect In Weld	M.Tech.	2021
60	V Shyam Sai	Frequency Sweep Study on Generation Of Dual Mode Higher Harmonics Using Single Mode Excitation In Aluminium Plate	M.Tech.	2020
59	Akshat Shrivastava	Design And Development of A Magnetostriction Sensor Based Ultrasonic Sensor For Flow Measurement	M.Tech.	2020
58	Garima Jain	Structural Evaluation And Electrochemical Performance Of Molybdenum Phosphate	M.Sc.	2020
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56	Chithra Raj	A comparative study of supercapacitive properties of Metal sulphides	M.Sc.	2019
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47	P Nasseb Nisar	$LaMnO_3$ perovskite as supercapacitor electrode material	M.Sc.	2016

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