

Dr. S. PANIMOZHI, M.Sc., Ph.D.,

ASSISTANT PROFESSOR

DEPARTMENT OF CHEMISTRY

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• CONTACT DETAILS

OFFICE ADDRESS

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RESIDENTIAL ADDRESS

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Mathur post,
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Cuddalore (Dt)-600 601

• OBJECTIVE

To pursue a growth oriented career in an organization that offers responsibilities as well as job satisfaction so that I can make a substantial and positive impact towards the success of the institution.

• QUALIFICATIONS

- **Ph.D., Chemistry, Annamalai University, Chidambaram, 2020.**
- **M.Sc., Chemistry, Theivanai Ammal College for Women, Villupuram, 2016.**
- **B.Sc., Chemistry, Seethalakshmi Ramaswami College, Trichy, 2014.**

• TEACHING EXPERIENCES

- ✓ Working as **Assistant Professor** in the Department of Chemistry, **Theivanai Ammal College for Women (Autonomous), Villupuram, Tamil Nadu, India, July 12, 2021-Till Date.**
- ✓ Worked as **Assistant Professor** in the Department of Chemistry, **MRK Institute of Technology, Kattumannarkoil, Tamil Nadu, India, February 2020 - June 2021.**

• RESEARCH EXPERIENCES

- Worked as **Research Scholar**, under the guidance of **Dr. J. Jayabharathi**, Professor, Department of Chemistry, Annamalai University, Chidambaram, **Nov 2016 – January 2020.**

- **Junior Research Fellowship (JRF) -2017-2018** in Annamalai University Funded by DST-SERB, New Delhi.
- **At Doctorate level:** Hot exciton transition for organic light –emitting diodes: Tailoring excited –state properties and electroluminescence performances of luminescent materials.
- **At post graduate level:** Studies on the synthesis of silver nano particles using *Andrographis Paniculata*.

• AREA OF SPECIALIZATIONS

- ✓ Organic Light Emitting Diodes (OLEDs)
- ✓ Synthetic Organic Chemistry
- ✓ Nanotechnology
- ✓ Computational Chemistry

• CONFERENCE/ SEMINARS/SYMPOSIA/WEBINARS/WORKSHOP

PAPER PRESENTED

INTERNATIONAL

- ✓ International Workshop on “**Crystalline Materials and Applications (IWCMA-2019)**” organized by Crystal Growth Centre (UGC-National Facility) Anna University, Chennai, January 03-05, 2019.
- ✓ International Conference on “**Advancements and Challenges in Chemical Sciences (ICACCS, 2018)**” organized by PG & Research Department, Pachaippa’s College, Chennai, February 2-3, 2018.
- ✓ International Conference on “**Recent Advances in Applied Physics (ICRAAP-2017)**” organized by Department of Engineering Physics, Annamalai University, Annamalainagar, September 21-22, 2017.
- ✓ Second International Conference on “**Advances in New Materials (ICAN-2018)**” organized by Department of Inorganic Chemistry, University of Madras, Guindy Campus, Chennai, June 8-9, 2018.
- ✓ International National Seminar on “**Recent Advances on Luminescent Materials (RALM-2015)**” organized by Department of Chemistry, Annamalai University, Annamalainagar, January 23-24, 2015.

NATIONAL

- ✓ National level Conference on “**Recent Trends in Material Science (RTMS-2018)**” organized by Department of Physics, Annamalai University, Annamalainagar, December 19- 20, 2018.
- ✓ National Conference on “**Frontiers in Nanoscience (NCFNS-2018)**” organized by Department of Chemistry, Annamalai University, Annamalainagar, October 04-05, 2018.
- ✓ National Level Conference on “**Expanding Frontiers in Chemical Sciences (EFCS-2016)**” organized by Department of Chemistry, Vivekanandha College of Arts & Science for Women, Elayampalayam, Tiruchengode, February 12-13, 2016.

PARTICIPATED

- ✓ National Conference on “**Nucleic Acid Science & Technology (NCNST-2021)**” organized by CSIR- Institute of Minerals and Materials Technology, Bhubaneswar, August 10-13, 2021.
- ✓ “**Achieving Publication Index Scores and Succeeding Research Projects**” organized by Department of Library and Information Science. Annamalai University, Annamalainagar, 2017.
- ✓ School of Advanced Science, “**30th National Science Day**” held at VIT University, Vellore, February 29, 2016.
- ✓ National Conference on From University to Industry; “**Fostering Interest in Chemistry among the Students (FUIFICAS-2014)**” organized by PG Department of Chemistry, Periyar Arts College, Cuddalore, September 25-26, 2014.

WORKSHOP

- ✓ “**DST & ACS Workshop**” at School of Chemistry, Bharathidhasan University, Trichirapalli, 2019.
- ✓ Workshop on “**Nanomaterials, Fabrication and Devices**” organized by Department of Physics, Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore, 15, 2018.
- ✓ National Workshop on “**Recent Developments in Science and Engineering Materials (NWRDSEM-2017)**” organized by Department of Engineering Physics, Annamalai University, Annamalainagar, March 1, 2017.
- ✓ National workshop on “**Modern Methods in Organic Synthesis (MMOS'16)**” organized by Department of Chemistry, PG & Research Department of Chemistry, St.

Joseph's College of Arts & Science (Autonomous), Cuddalore, February 16 -17, 2016.

- ✓ Science Academies Sponsored Two Days Lecture Workshop on “**New Frontiers in Chemistry (LWNFC-2015)**” organized by PG Department of Chemistry, Periyar Government Arts College, Cuddalore, January 29 - 30, 2015.
- ✓ Workshop on “**Leadership Skills Program**” by ICT Academy of Tamilnadu, Theivanai Ammal College for Women, Villupuram, October 24 – 25, 2014.

ATTENDED ONLINE QUIZ & WEBINARS

- ✓ Webinar on “**Materials for Energy Storage Devices**” organized by Department of Science and Humanities, National Engineering College, K.R. Nagar, Kovilpatti, August 21, 2020.
- ✓ Online quiz on “**Role of Chemistry Against COVID-19**” organized by PG & Research Department of Chemistry, Government Thirumagal Mills College, Gudiyattam, June 15 -19, 2020.
- ✓ E-quiz conducted by the Department of Chemistry Sri Meenakshmi Government Arts College for Women (A), Madurai, June 8-10, 2020.
- ✓ Chemistry E-quiz-2020 Conducted by Department of Chemistry, Sri Akilandeswari Womens College, Wandiwash.
- ✓ Online quiz on “**Aptitude**” organized by Soundarya Institute of Management & Science, Soundarya nagar, Sidedahalli, Nagasandra post, Bangalore, May 6, 2020.
- ✓ Online quiz on “**Chemistry In Our Day-To-Day Life**” awarded by Department of Chemistry E.M.G.Yadava Womens College, Madurai, June 12, 2020.
- ✓ Online quiz **Coronavirus Disease (COVID-19)** Chemistry awareness conducted by Department of Chemistry, H.N.B. Govt.P.G.College, Khatima, U.S. Nagar, Uttarkhand, June 2020.
- ✓ Online quiz competition organized by the Department of Mathematics, Lakshmi Bangaru Arts and Science College, August 6, 2020.
- ✓ Online FDP on “**Recent Trends in Physics**” Organized by Department of Science, St. Josephs College of Engineering, OMR, Chennai, August 31- September 2, 2020.
- ✓ Webinar on “**Frontiers in Nanotechnology**” “organized by the Department of Chemistry, SRM Institute of Science and Technology, Ramapuram Campus, Chennai, August 27-29, 2020.
- ✓ Webinar on “Atomic Energy” organized by department of physics & research

development cell, Theivanai Ammal College for Women (A), Villupuram, 10.08.2021.

- ✓ Workshop on Outcome Based Education- Mapping/Attainment organized by curriculum development cell, Theivanai Ammal College for Women (A), Villupuram, 24 November 2021.
- ✓ International webinar on "Electrochemical Devices: Exploring the Architecture of Electrolytes and Electrodes" organized by the Department of Materials Chemistry, Saveetha School of Engineering, SIMATS, Chennai, 21st October, 2021.
- ✓ International Webinar on "Technologically Important Crystals and their Applications" Organized by Department of Physics and Research Centre, Muslim Arts College, Thiruvithancode, September 28, 2021.
- ✓ International webinar on Chemical Science and Technology organized by Department of chemistry, Srinivasan College of Arts and Science, Perambalur, 27 August 2021.
- ✓ Webinar on Emotional Intelligence and leadership organized by the Department of Commerce, St. Justin Arts and Science College for Women, Cholapuram, Sivagangai, 19 August 2021.
- ✓ Webinar on Professional Development Programmes (PDP) organized by Internal Quality Assurance Cell & Faculty Development Cell, Theivanai Ammal College for Women (A), Villupuram, 18 & 19 June 2021.
- ✓ International webinar on Spectroscopy Introduction and Recent Advances organized by department of chemistry, Theivanai Ammal College for Women (A), Villupuram, 28 May 2021.
- ✓ Webinar Tourism Revenge organized by instituto Superior de Administracao e Linguas and Theivanai Ammal College for Women, Villupuram, 23 June 2021.
- ✓ International webinar on Hydrogen Fuel of the Future organized by Department of Chemistry, E.S. Arts and Science College, Villupuram, 20 October 2021.
- ✓ Online FDP on Research prospects and progress in biological science (RPPB-2022) organized by SRM Institute of science and technology, Ramapuram, Chennai. July 4-10, 2022.
- ✓ MOE IIC Impact Series I & II organized by SRM Institute of science and technology, Ramapuram, Chennai. July 22-27, 2022.
- ✓ Online Faculty Development Program on 'Advances in Characterization Techniques' organized by the Department of Physics and Department of Chemistry, Presidency University, from October 10 to 14, 2022.

- ✓ Virtual FDP on “Recent trends on Research & Development in Chemistry” organized by Post graduate and Research Department of Chemistry, J.K.K. Nataraja College of Arts & Science, Kumarapalayam, 31- 10-2022 to 07.11.2022.
- ✓ International Lecture on Multidisciplinary Research in Education organized by DPG Degree College , DPG School of Technology and Management and Chodhary Partap Singh Memorial College of Education, 9 February 2023.
- ✓ Online webinar conducted on “Basics of MICAtronics” organised by Dept. of Physics, School of Engineering, Presidency University, Bangalore on the 21st of January, 2023.
- ✓ Online Faculty Development Program on “Recent Trends on Research and Development in Chemistry” from 13.02.2023 to 17.02.2023, organized by PG and Research Department of Chemistry, Theivanai Ammal College for Women (Autonomous), Villupuram, Tamilnadu, India.
- ✓ Virtual FDP on Positive Aspects of Teaching Practices, Organized by IQAC and PG and Research Department of Commerce, Theivanai Ammal College For Women (A), Villupuram. 20-24 February 2023.
- ✓ International Webinar on "Plagiarism - Importance, Consequence and How to avoid" Organized by the Research & Department of Mathematics, Theivanai Ammal College for Women (Autonomous), Villupuram on 08.03.2023.

• PUBLICATIONS

• International Journals

1. J. Jayabharathi, **S. Panimozhi**, V. Thanikachalam, “A Novel Hot Exciton Blue Fluorophores and White Organic Light-Emitting Diodes with Simplified Configuration”, Springer Nature, Scientific Reports, 2020, 10, 5114. (IF = 4.379)
2. J. Jayabharathi, **S. Panimozhi**, V. Thanikachalam, “Asymmetrically Twisted Phenanthrimidazole Derivatives Comprised of an Anthracene or Pyrene Host Materials for Blue Fluorescent, Green and Red Phosphorescent OLEDs”, Springer Nature, Scientific Reports, 2019, 9, 17555. (IF = 4.379)
3. J. Jayabharathi, **S. Panimozhi**, V. Thanikachalam, “Hot Excitation Transition for Organic Lightemitting Diodes: Tailoring Excited-State Properties and Electroluminescence Performances of Donor-Spacer-Acceptor Molecules”, RSC Advance, 2018, 8, 37324. (IF = 3.36)

4. J. Jayabharathi, S. **Panimozhi**, V. Thanikachalam, A. Prabhakaran, P. Jeeva, "A Hybrid Inorganic-Organic Light-Emitting Diode Using Ti-Doped ZrO₂ as an Electron-Injection Layer", RSC Advance, 2018, 8, 8402. (IF = 3.36)
5. J. Jayabharathi, G. Goperundevi, V. Thanikachalam, S. **Panimozhi**, "Regulation of Singlet and Triplet Excitons in a Single Emission Layer: Efficient Fluorescent/Phosphorescent Hybrid White Organic Light-Emitting Diodes", ACS Omega, 2019, 4, 12, 15030. (IF = 3.512)
6. J. Jayabharathi, V. Thanikachalam, R. Ramya, S. **Panimozhi**, "Strategic Tuning of Excited State Properties of Electroluminescent Materials with Enhanced Hot Exciton Mixing", RSC Advance, 2019, 9, 33693. (IF = 3.36)
7. J. Jayabharathi, S. Sivaraj, V. Thanikachalam, S. **Panimozhi**, J. Anudeebhana, "Red, Green and Blue Phosphorescent Organic Light-Emitting Diodes with ITO-Free Anode Material", Elsevier, Journal of Photochemistry Photobiology A, <https://doi.org/10.1016/j.jphotochem.2019.112229>. (IF = 4.291)
8. J. Jayabharathi, G. Abirama Sundari, V. Thanikachalam, S. **Panimozhi**, "Enhanced Internal Quantum Efficiency of Organic Light-Emitting Diodes: A Synergistic Effect", Elsevier, Journal of Photochemistry Photobiology A, 2018, 364, 577. (IF = 4.291)
9. J. Jayabharathi, G. Abirama Sundari, V. Thanikachalam, P. Jeeva, S. **Panimozhi**, "Organic/inorganic Hybrids Based on Phenanthrene Functionalized Gold Nanoparticles for OLEDs", Journal of Physical Organic Chemistry, 2017, e3796. (IF = 2.391)
10. J. Jayabharathi, P. Sujatha, V. Thanikachalam, P. Jeeva, S. **Panimozhi**, "Localized Surface Plasmon-Enhanced Green OLEDs by Au Nanoparticles Embedded ZnO", Journal of Photochemistry Photobiology A, 2017, 348, 269. (IF = 4.291)
11. J. Jayabharathi, G. Abirama Sundari, V. Thanikachalam, P. Jeeva, S. **Panimozhi**, "A Dodecanethiol-Functionalized Ag Nanoparticles Modified ITO Anode for Efficient Performances of Organic Light-Emitting Devices", RSC Advance, 2017, 7, 38923. (IF = 3.36)
12. J. Jayabharathi, P. Sujatha, V. Thanikachalam, P. Jeeva, S. **Panimozhi**, "Enhancement of Electroluminescent Green Emission by Far-Field Coupling of Au Nanoparticles in Organic Light Emitting Diodes", ACS, Industrial Engineering Chemistry Research, 2017, 56, 6952. (IF = 3.720)
13. J. Jayabharathi, P. Jeeva, V. Thanikachalam, S. **Panimozhi**, "Blue Organic Light-Emitting Diodes Based on Pyrene Phenanthrimidazole and D- π -A Chromophore", Elsevier, Journal of Photochemistry Photobiology A, 2017, 346, 296. (IF = 2.495)

- **National Journals**

1. D. Pavithra, G. Srimathivathana, K. Shabnam,V. Sivasangari, **S. Panimozhi**, green synthesis of silver nanoparticle using *origanum vulgare*, UGC Care Group 1 Journal, ANVESAK,2021, 53, 577-586. (**IF = 6.20**)
2. B. Selvakumari, A. Sindhu, S. Pragatheeswari, M. SasiPriya, **S. Panimozhi**, Green synthesis of metal nanoparticles using *coriandrum sativum* leaves, UGC Care Group 1 Journal, ANVESAK, 2021, 53, 587-596. (**IF = 6.20**)
3. K. Sharmilasri, K. Sangeetha, D. Sharmila, B. Snegapriya, **S. Panimozhi**, synthesis of silver nanoparticles using *psidium guajava* leaf extract, UGC Care Group 1 Journal, ANVESAK, 2021, 53, 597-604. (**IF = 6.20**)
4. L. Kulandai selva Rani and **S.Panimozhi**, Green Synthesis of Copper Nano particles using Medicinal Plant Carica Papaya, International Journal of Botany studies, 7, 2022, 45-47. (**RJIF= 8.00**)
5. A. Abirami and **S. Panimozhi**, Synthesis of Silver Nanoparticles Using *Azadirachta Indica* Leaf Extract, International Journal of Botany studies, 7, 2022, 42-44. (**RJIF =8.00**)
6. B. Rubiga and **S. Panimozhi**, Synthesis of Silver Nanoparticles Using *Ocimum tenuiflorum* Leaf Extract, International Journal of Botany studies, 7, 2022, 20-23. (**RJIF= 8.00**)

❖ **Cumulative Impact Factor (International):**

37.15

❖ **Cumulative Impact Factor (National):**

18.60

❖ **Google Scholar link:**

https://scholar.google.com/citations?view_op=list_works&hl=en&user=BuJlwkEAAAAJ

• **MEMBERSHIP**

➤ American Chemical Societ

• **POST GRADUATE SUPERVISION**

- Academic Year 2019-2022- (B.Sc, 12 Students) -TACW.
- Academic Year 2020-2022- (M.Sc, 04 Students) -TACW.
- Academic Year 2021-2023- (M.Sc, 04 Students) –TACW (ongoing)

• **EVENTS ORGANIZED**

- Board of Studies Meeting Attended as an Internal Member in Department of Chemistry, Theivanai Ammal College for Women, held on 05 may 2022.

- Committee Member of National Conference on Analytical & Materials Chemistry for Everyday Life (AMC-21), Department of Chemistry, TACW, Feb 3- 2021.
- Committee Member in Controller of Examination at Theivanai Ammal College for Women, Villupuram.
- Internship Coordinator in Theivanai Ammal College for Women, Villupuram (2021-2022).
- Industrial Visit Coordinator in Theivanai Ammal College for Women, Villupuram (2021-2022).
- Committee Member in Dean of Research at Theivanai Ammal College for Women, Villupuram.
- Convener in Online Faculty Development Programme in the title “ **Recent Trends on Research and Development in Chemistry Topics**” from 13.2.2023 to 17.02.2023, Department of Chemistry, TACW.
- Organizing Member of National Conference on Recent Development in Chemistry, Department of Chemistry, TACW, 1 March- 2023.
- Organizing Committee Member of International Conference on Smart & Sustainable Development in Multidisciplinary Research (SCI-VISION-2020) Department of Chemistry, TACW, 9&10 March- 2023.

• **AWARDS / RECOGNITIONS**

- ✓ Awarded as **University Research Studentship (URS) - 2018-2019** by Annamalai University.
- ✓ Awarded as **Junior Research Fellowship (JRF) -2017-2018** by DST-SERB, New Delhi.
- ✓ Awarded as **Marie-Curie Award-2016** by Theivanai Ammal College for Women, Villupuram.
- ✓ Proficiency prize in **PG Major 2015-2016** by Theivanai Ammal College for Women, Villupuram.
- ✓ **Representative in M.Sc., Chemistry 2014-2015** by Theivanai Ammal College for Women, Villupuram.

INSTRUMENTS HANDLED

- Perkin-Elmer Lambda55 Spectrofluorimeter (Solution & Film)
- Perkin-Elmer Lambda 35 UV-Spectrometer & RSA-PE-20 Spectrometer (Solution & Film)
- Horiba Fluorocube-01-NL lifetime system
- F-7100 FL Fluorescence (solid, film & solution)
- Vacuum Thermal Coating with Glove Box
- USB-650-VIS-NIR spectrometer Ocean Optics, Inc, USA
- Keithley Sourcemeter (2450)
- Powder XRD
- Single Crystal XRD
- Cyclic Voltammogram
- Ultrasonicator

COMPUTER KNOWLEDGE

Honoring Diploma in Computer Applications (HDCA)

Subject Covered

- MS-Office
- Internet
- Photoshop and Corel Draw
- C AND C⁺⁺ programming
- HTML AND Front Page
- Visual Basic Programming

SOFTWARE HANDLED

- Gaussian-09
- Multiwfn-3.3.9-bin-Win
- GaussSum-3.0
- Origin-Pro-8.0
- Mercurystandalone-3.8-windows
- Molekel-5-4-0-win
- BrukerAXSExecutables2018.7-1
- python-3.4.2
- CambridgeSoft-ChemDraw-Ultra-12.0
- autodocksuite-4.2.6.i86 Windows