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Area of Interest: Material Science and Quantum Physics

About me:

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EDUCATION DETAILS

1. **Mphil – Physics:** (2010-2011) in Presidency College Affiliated to University of Madras, Chennai, Tamil Nadu, India.

2. **Master of Science in Physics:** (2008-2010) in Pachaiyappa's College Affiliated to University of Madras, Chennai, Tamil Nadu, India.

3. **Bachelor of Science in Physics : (**2004-2007) in Valliammal womens College, Affiliated to University of Madras, Chennai, Tamil Nadu, India.

WORK EXPERIENCE:

Worked as Assistant Professor Annai Velankanni's College of Engineering, Chennai from 2012-2013,

Working as Assistant Professor in Prince Shri Venkateshwara Padmavathy Engineering College, Ponmar, Chennai from July 4th 2013 to till date

PROFESSIONAL INFORMATION:

PUBLICATION

- Boukabcha Nourdine [a,b], Jeyalaxmi Murugan [c], Belhachemi Mohammed Hadj Mortada [a], Saravana Kumar Gandhi [d,*], Azayez Mansour [b] **Crystal growth, experimental, theoretical investigation and molecular docking study of ammonium p-toluenesulfonate, Chemical Physics Impact 7 (2023) 100267**

- Gandhi SARAVANA KUMAR[1*,] Murugan JEYALAXM[I2] **Development and Evaluation of an Efficient Second Order Non-Linear Optical Single Crystal – 2-(3-Aminopyridinium-1-yl)- 3-carboxyproponate monohydrate, PHOTONICS LETTERS OF POLAND, VOL. 15 (3), 48-50 (2023)**

- G. Saravana Kumar* [a], M. Jeyalaxmi [b], N. Boukabcha [c,d], K. Vijayanarasimhan [a], and A. Chouaih [d] **Investigations on Growth, Characterization, NCI-RDG, AIM, Molecular Docking and *In-Silico* ADME Properties of 1,2-Benzene Dicarboxylic Acid Anhydride, *Orbital: Electron. J. Chem.* 2024, 15(1), 1-9**

CERTIFICATIONS

MEMEBERSHIP:

IAENG Member no: 201243

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LIST OF SEMINARS, FDP AND CONFERENCES

- 7-Days International online Faculty Development Program on "Recent Developments and Applications in Advanced Materials organized by Department of Physics and Chemistry, St Joseph College of Engineering college, Sriperumbudur, Tamil Nadu, 03rd March 2025 – 09th March.2025

- Online Faculty Development Program on Frontiers in scientific Research & Technology organized by Department of Physics and Chemistry, St Joseph Institute of Technology 19th Feb – 24th Feb 2024

- Faculty Development Program on Advanced Material for Technical Applications organized by Department of Physics, Sathyabama Institute of Science and Technology, 24th Mar 2023 – 04th Apr 2023

- AICTE Sponsored One week short term training Program on " Digitally Controlled Power Converters for Industrial and Renewable Applications – Phase – II under AQIS Scheme organized by Department of Electrical Engineering, SSBT's College of Engineering and Technology, 19th Nov 2021 – 24th Nov 2021

- Pathak, K. R., Meena, M., Kumar, R., Rampal, S., Haroon, S., & Jeyalaxmi, M. (2023). Designing AI-driven systems to optimize automated data science. In Proceedings of the 2023 IEEE International Conference on Paradigm Shift in Information Technologies with Innovative Applications in Global Scenario.

- Chandramauli, A., Singh, R., Jeyalaxmi, M., A., A. H. H., Habelalmateen, M. I., & Sasipriya, S. (2024). The role of Internet of Things (IoT) in hydel energy sector – Perspectives. E3S Web of Conferences, 540, 08006. https://doi.org/10.1051/e3sconf/202454008006

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- Gayathiri, S., Ravi, C. N., Jeyalaxmi, M., Mabel Rani, A., Anushia, S., & Pandit, S. (2024). A novel approach to design secured and privacy enabled health data linkage system based on cyber security principles. In Proceedings of the 2024 IEEE International Conference on Big Data & Machine Learning (ICBDML). IEEE. https://doi.org/10.1109/ICBDML69099.2024.10577373

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- X Ramy Raid A-I -Fatlawy, Dr. S. Senthilkumar, JEYALAXMI M, Dr. N.V. Borse, Kanchan Yadav, Milind Landgage, D. Suresh BabuImpact of Energy Storage Technologies on Grid-Connected Renewable Energy systems, 05006 2024

- Megha Pandey, Manasa N, Priya Vinod, Shrinivas, Jeyalaxmi M, Faim Multani Revolutionizing Waste Management for corporation is design and implementation of an intelligent dustbin with garbage gas detection for a Hygienic Environment using IOT Technology. (ICTEASD 2023),

- Dr B Uma Maheswari, Dr S. Kirubakaran, P Saravanan, M Jeyalaxmi, Alabazar Ramesh, Dr R G Vidhya Implementation and prediction of Accurate Data Forecasting Detection with different Approches . (ICOSEC 2023)