



Name : Dr. G. Vanitha
Designation : Assistant Professor
Department : Physics
Qualification : Ph. D
Experience : Teaching -15 Years
Research : 7 Years
Area of Specialization(s) : Nanotechnology
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Academic Qualifications

Degree	Branch	Institution/UniversityName	Year of Graduation
Ph.D.	Physics	PSG College of Arts & Science	December 2018
M.Phil	Physics	PSG College of Arts & Science	December 2003
B.Ed.	Physical Science	Avinashilingam Deemed University	May 2000
M. Sc.	Physics	PSG College of Arts & Science	May-1997
B.Sc.	Physics	PSG College of Arts & Science	May 1995

Research Publications (Indexed)

International

1. Systematic Investigation on hydrazine hydrate assisted reduction of silver nanoparticles and its antibacterial properties, G. Vanitha, K. Rajavel, G. Boopathy, V. Veeravazhuthi, P. Neelamegam, Inorganic and Nano Metal-Chemistry, 761-767,24 May 2016.
2. Physiochemical charge stabilization of silver nanoparticles and its antibacterial applications. G. Vanitha, K. Rajavel, G. Boopathy, V. Veeravazhuthi, P. Neelamegam, Chemical Physics Letters, 71-79, 669, February 2017.

Acted as a Resource Person

1. YASSC- Evaluator -Academic Committee Member-Regional level Youth Astronomy and Space Science Congress, Regional level Youth Astronomy and Space Science Congress, Vellalar College For Women, Erode, 27/07/2025.
2. Interview to Pothigai FM, Asteroids and its spatial attributes, 04/07/2025

Paper Presentations in Conference

International

'Fabrication and performance of Proton conducting battery using Pomegranate peel as a biopolymer Electrolyte'-Oral Presentation- Advanced Materials for Sustainable Technologies, January 23rd-24th, 2025-**Oral Presentation.**

'Fabrication of Proton Conducting Battery Using Biomaterial Electrolyte from Pomegranate Peel and Study of its Performance' – 18th Asian conference on Solid State Ionics, February 19th-22nd, 2024-**Poster Presentation.**

Fabrication and Study of Ammonium Ion Battery using Biomembrane Electrolyte, ICMSA, Seethalakshmi Ramaswami College, Trichy, February 1st-2nd, 2024- **Oral Presentation**

Enhanced Photocatalytic degradation of Methylene Blue and Methyl Orange for 1 D TiO₂ Nanotubes and Nanorods, National Conference on Renewable Energy and its Applications I Mitigation of Climatic Changes, Department of Physics, PSGRKCW, January 21st-22nd, 2019-**Poster Presentation**

'Enhanced Photocatalytic degradation of methyl violet and rose bengal for TiO₂ nanorod and nanotube', Energy, Environment and Ethics (E³ -2016), March 28th-29th, 2016- **Oral Presentation**

'Systematic Investigation on Hydrazine Hydrate assisted reduction of Silver nanoparticles and its Antibacterial properties', Emerging Trends in Plasma Technology and its Applications (ETPTA-2014)), August 20th-21st, 2014- **Oral Presentation**

'Destined power production using Tidal energy without Greenhouse Gas Emissions', (CONFLUENCE-2012)), March 2nd & 3rd, 2012- **Oral Presentation.**

Participation in Conference

- Science Academies Lecture Workshop on Mathematical Physics, Department of Physics, PSGRKCW, Coimbatore, March 2nd-4th, 2026.
- National Workshop on Electrochemical Devices, Department of Physics, PSGRKCW, August 22nd-23rd, 2023.
- CSIR NET/SET Workshop on Physical Sciences, Department of Physics, PSGRKCW, July 31st - August 1st 2023.
- International Conference on Optics and Photonics Technology (ICOPT-23), Department of Physics, PSGRKCW, February 2nd-3rd, 2023.

- Designing New Pedagogies in Higher Education: A Driving Force to achieve Sustainable Development Goals, IQAC, PSGRKCW, January 27th-28th, 2023.
- International Webinar on Recent Technological Applications in Nano Science, Department of Physics, SRM Institute of Science and Technology, Chennai, June 23 rd, 2021.
- Workshop on Overview of Solar PV System Design, IEEE Robotics & Automation Society and Power Electronics Society, St. Joseph's College of Engineering, May 22 nd, 2021
- International Interdisciplinary Virtual Conference on Breakthroughs and Approaches in Contemporary Scientific Research, Department of Chemistry and Physics in Collaboration with University of Dar es Salaam, PSGR Krishnammal College for Women, Coimbatore, February 17-19 th, 2021
- International Virtual Conference on Advances in Nanomaterials and Its Recent Applications, Department of Science and Humanities, Dr. NGP Institute of Technology, Coimbatore, July 15-17th, 2020.
- International Webinar Lecture Series on Lasers, Optics & Photonics, Chikkanna Government Arts College, Tiruppur, June 11-13 th , 2020.
- National Conference of Molecular Modeling and Simulation Methods, Department of Physics, PSGRKCW, Coimbatore, February 17th-18th 2020.
- The Art of Designing Research Problem/Questions and Awareness on Intellectual Property Rights, Department of Mathematics, PSGRKCW, Coimbatore, October 24th, 2019.
- National Workshop on Emerging Sensor Technologies (NEST' 19), Department of Nanoscience and Technology, Bharathiar University, Coimbatore, January 7-8 th , 2019.
- National Conference on Renewable Energy and its Applications in Mitigation of Climatic Changes (NCRE-2019), Department of Physics, PSGR Krishnammal College for Women, Coimbatore, January 21 st -22 nd , 2019.
- National Conference on Renewable Energy and its Applications in Mitigation of Climatic Changes (NCRE-2019), Department of Physics, PSGR Krishnammal College for Women, Coimbatore, January 21st-22nd, 2019.
- Workshop on Optics, Department of Physics, PSGR Krishnammal College for Women, Coimbatore, October 16 th , 2018.
- National Conference on Energy, Environment and Ethics (E³-2016), Centre of New and Renewable Energy studies and Department of Energy Studies, Periyar University, Salem, March 28-29th, 2016.
- Workshop on Scientific Educational Practices, SEED, Learning Research Centre, Chennai & INFO Institute of Engineering, Coimbatore, November 19th-25th, 2012.
- National conference on Developing Scenario in Applied Sciences and Communicative English (CONFLUENCE-2012), Kumaraguru College of Technology, Coimbatore, March 2-3rd, 2012.
- International workshop on NANO ELECTRONICS, IEEE Electron Device Chapter Madras and Department of Electronics and Communication Engineering, Sri Ramakrishna Institute of Technology, December 30 th , 2011.
- National conference on Recent Advances in Molecular Interactions (NCRAMI-2004), PSG CAS, Coimbatore, March 26-27th, 2004.

Conference/Seminar/Workshop Organized

International Conference on Advanced Materials for Sustainable Technologies, 23rd & 24th January 2025

Indexing and Citations

Overall Citation: 101 H- Index = 2