

Name :Mrs.A.Saravanapriya

Designation : Assistant Professor

Department : Physics

Qualification: M. Sc., M. Phil., (Ph. D.)

Experience: Teaching: 6.9 Years Research: 4 Years

Area of Specialization(s): Plasma Physics & Molecular Quantum Mechanics

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Academic Qualifications

Degree	Branch	Institution / University Name	Year of Graduation
Ph. D.	Molecular Quantum Mechanics	P.S.G. R. Krishnammal College for Women	Pursuing
M. Phil.	Plasma Physics	Bharathiar University	2015
M. Sc.	Physics	Bharathiar University	2013
B. Sc.	Physics	LRG Government Arts College for Women	2011

Research Publications (Indexed)

- 1) A. Saravanapriya, A. Abiram and G. Praveena. Molecular Insights on the Dihydrogen Bond Properties of Metal Borohydride Complexes upon Ammoniation, ECS Journal of Solid State Science and Technology. Vol.10, 2021 (Indexed in SCOPUS).
- 2) A. Saravanapriya and G. Praveena. Impact of Electronegativity on the dihydrogen bond formation in MH...NH complexes, Advances in applied Research. Vol.13, 2020, 13-17 (Indexed in COSMOS).

Presentation in Conference

- 1) **Preparation and Characterization of Plasma Sprayed Alumina-Zirconia Coatings**, National Conference on Advanced Functional Materials and their Applications in Engineering, Dr. N.G.P. Institute of Technology, Coimbatore, 28-Sep-16.
- 2) **Eco Friendly Smart Solar Cooking Solutions**, National level conference on Advanced materials in waste management, Dr. N.G.P. Institute of Technology, Coimbatore, 8-Feb-19.
- 3) **Study of Dihydrogen bond in ammoniated metal borohydride complexes**, International conference on Advanced Chemical and Structural Biology, PRIST Deemed to be university, Thanjavur, 19-21-Feb-2019.
- 4) **Dihydrogen bonds and coordination chemistry of metal hydrides**, DAE-CCS symposium, Chemical Engineering group, Bhabha Atomic Research Centre, Mumbai, 7-9-Nov-2019.
- 5) **Effect of Ammoniation on Dihydrogen bonded AMB...MB Complexes**, National Conference on Molecular Modeling and Simulation Methods, PSGR Krishnammal College for Women, Coimbatore, 17 & 18-Feb-2020.

- 6) **Dihydrogen Bonding in complex hydrides –Abinitio Study**, International Conference on Nanoscience and Nanotechnology, SRM Institute of Science and Technology, Kattankulathur, 1-3-Feb-2021.
- 7) **First principle study on dihydrogen bond interaction in metal hydrides**, International virtual conference on advanced materials for sustainable energy and environment, PSGR Krishnammal College for Women, Coimbatore, 16-18 Feb-2022.

Participation in Conference

National

- 1) **Collaborative Research and Funding Opportunities for Engineering Institution**, Dr. N.G.P. Institute of Technology, Coimbatore, 19 & 20-Jun-15.
- 2) **Emerging Education Models For 21st Century Learner**, Dr.N.G.P. Arts and Science College, Coimbatore, 1-Aug- 15.

Participation in Seminar

- 1) **Advanced Materials: Processing and Applications**, Department of Physics, Bharathiar University, 29 & 30-Mar-12.
- 2) **Advanced Materials and Solar Energy**, KPR Institute of Engineering and Technology, Coimbatore, 28-Oct-15.

Participation in Workshop

- 1) **Atmospheric Plasma Processing**, Power Beam Society of India & Department of Physics, Bharathiar University, Coimbatore, 31-Oct-12 to 3-Nov- 12.
- 2) **Shock Waves In Science, Engineering & Medicine**, Kumaraguru College of Technology, Coimbatore, 6 & 7-Oct-17.
- 3) **Advances in Nanotechnology**, Coimbatore Institute of Technology, Coimbatore, 31-Aug-2018.
- 4) **Intellectual Property Rights and Innovations, DBT Star Status**, PSGR Krishnammal College for Women, 27-Oct-18.
- 5) **Health Risk Assessment of Nanoparticles**, Dr.N.G.P Arts and Science College, Coimbatore, 05-07-Dec-2018.
- 6) **Annular Solar Eclipse 2019**, Regional Science centre, Coimbatore, 19-Sep-2019.
- 7) **Rural Immersion – Community Engagement**, Mahatma Gandhi National Council for Rural Education, Hyderabad in collaboration with NSS unit, Dr.N.G.P Arts and Science College,

Coimbatore, 21-Sep-2019.

Participation in Orientation Programme / Short Term Courses

- 1) **UGC Research Methodology Training Programme in Physics for M. Phil / Ph. D. Scholars**, Department of Physics, Bharathiar University, 16 to 20-Dec-13.
- 2) **Electronic Waste Management – Issues and Challenges**, NPTEL, Feb-March-2018.
- 3) **Selection of nanomaterials for energy harvesting and storage application**, NPTEL- AICTE FDP, July-Aug-2019.
- 4) **Optical Sensors**, NPTEL –AICTE, Jan-Feb-2021.

Participation in Faculty Development Programme

- 1) **Engineering Materials and its Applications**, Dr. N.G.P. Institute of Technology, Coimbatore, 11-Jan-18.
- 2) **Quality Measures in Higher Education**, Dr. N.G.P. Arts and Science College, Coimbatore, 3-Dec-18 to 9-Dec-18.
- 3) **NAAC Revised Accreditation Framework and OBE Assessment Methodology**, Dr. N.G.P. Arts and Science College, Coimbatore, 27-May- 19 to 2-June-19.
- 4) **Selection of nanomaterials for energy harvesting and storage application**, NPTEL- AICTE FDP, July-Aug-2019.
- 5) **Optical Sensors**, NPTEL –AICTE FDP, Jan-Feb-2021.
- 6) **Research Methodology and Pedagogy for Tertiary Education**, Dr. N.G.P. Arts and Science College, Coimbatore, 15-June- 21 to 20-June-21.
- 7) FDP on **Spectra of Physics**, PSGR Krishnammal College for Women, Coimbatore, 01st to 09th March 2022.