

BIO-DATA

Name : M.PADMAVATHY

Educational Qualification : M.Sc., M.Phil., PGDCA.

Date of Birth : 25.04.1981

Designation : Assistant Professor

Department : Department of Physics

Email Id : padmavathymurugan2016@gmail.com

Area of Specialization : Spectroscopy



Degree	Subject	College/University	Year of Passing	Class/Grade
B.Sc.	Physics	Seethalakshmi Ramaswami College Bharathidasan university	2001	First class
M.Sc .	Physics	Urumu Dhanalakshmi College Bharathidasan university	2003	First class
M.Phil	Physics	Bharathidasan university	2005	First class Distinction

Teaching Experience

Name of the Institution	Duration		Years
	From	To	
Chidambaram Pillai College for Women.	5.06.2005	31.3.2008	3
Shrimati Indira Gandhi College College	16.06.2008	Till date	11

Paper Published

- (1) Dr.S.Seshadri , M.Padmavathy Published a paper titled “Vibrational spectra (FT-IR Raman and NMR) of 1, 5-Difluoro-2,4- dinitrobenzene based on density functional calculations”. International Journal of Science and Research, Volume 6 Issue 1 (2017) 1683–1692. n
- (2) Dr.S.Seshadri, M.Padmavathy Published a paper titled “Normal coordinate analysis vibrational spectroscopy studies and quantum chemical calculations of 1,5-Dichloro-2,3-dinitrobenzene”. International Journal of Science and Research, Volume 6 Issue 3(2017) 70-81.
- (3) Dr.S.Seshadri , M.Padmavathy Published a paper titled “Use of vibrational spectroscopy to study 1,3-dimethyl-5-nitrobenzene: A combined theoretical and experimental approach”. Published in Indian Journal of Pure & Applied Physics, Vol.56, November 2018.pp.902-913.
- (4) Dr.S.Seshadri , M.Padmavathy Published a paper titled “Structure, characterization and DFT studies of 1,2-Dichloro-4-fluoro-5-Nitrobenzene”. International Journal of Scientific Research in Science, Engineering and Technology, Volume4 Issue (4) March 2018 190-199.
- (5) Dr.S.Seshadri, M.Padmavathy Published a paper titled “Experimental and Theoretical Determination of structural and vibrational Properties of 3-Trifluoromethylphenylacetonitrile” Published in International Journal of Research and Analytical Reviews. Volume 06 Issue 1 January 2019.
- (6) Dr.S.Seshadri, M.Padmavathy Spectroscopic Characterization and Natural Bond Orbit Analysis of 2-Trifluoromethylphenylacetonitrile based on DFT Calculations Published in Indian Journal of Pure & Applied Physics, Vol.57, June 2019.pp.411-421.

Seminars/ Conferences attended

Presented a Poster on Vibrational spectra (FT-IR FT- Raman and NMR) of 5-Difluoro-2,4- dinitrobenzene based on density functional calculations. in the International Conference on Nanomaterials and Molecular Research ICNMR-2016 held at St.Joseph's college of Arts & Science college (Autonomous) Cuddalore- during December 8- 9, 2016.

Presented a Poster Normal coordinate analysis, vibrational spectroscopy studies and quantum chemical calculations of 1,5-Dichloro-2,3-dinitrobenzene. National Conference on computational & Experimental physics of Functional materials (NCCEPFM-2016) held at K.S.R .College of Arts & science for Women. Thirugencode, Nammakal during 16 - 17 , December 2016.

Presented a Poster Structure, characterization and DFT studies of 1,2-Dichloro-4-fluoro- 5 -Nitrobenzene in the National Conference on Material Science & Technolgy : Recent Trends &Future Prospectus(NCMST:RTFP-2016) held at Arignar Anna Government Arts College Villupuram during December 29 - 30, 2016

Presented a Poster Use of vibrational spectroscopy to study 1,3-dimethyl-5-nitrobenzene: in the International Conference on Advances in Material science (ICAMS-2017) held at Holy Cross College (Autonomous) Tiruchirappalli (ICAMS-2017) during January 6 - 7, 2017.

Presented a Poster Experimental & Theoretical Studies of 1,2,3-Trichloro - 4-Nitrobenzene by Scaled Quantum Chemical calculations in the National conference on Recent Trends in Material Science.(NCRTMS-2017) held at Thiruvallur Government Arts College Rasipuram on 25th January-2017.

Presented a Paper Molecular Sructure Vibrational Spectroscopic of 1,2 Dimethyl -3 nitrobenzene in the International Conference on Recent Trends in Material Science & its Application. (ICRM-17). held at Urmu Dhanalakshmi College.Kattur Trichy on 21st August-2017.

