

JAMAL MOHAMED COLLEGE (AUTONOMOUS), TIRUCHIRAPPALLI
DEPARTMENT OF PHYSICS

1. Name : S. PRABHAKARAN
2. Designation : Assistant Professor
3. Educational Qualifications : M.Sc., M.Phil., B.Ed.,
4. Teaching Experience : 7 years
5. Details of Publications:

International journal - 3

National journal - 1

Publications:

1. FTIR and FT-Raman, normal coordinate analysis of the structure and vibrational spectra of o-nitrobenzaldehyde oxime, ***Elixir Vib Spec.36 (2011) 3397-3404.*** (Impact factor: 2.003)
2. Molecular structure, vibrational spectroscopic, first hyperpolarizability, and HOMO-LUMO studies of p-iodobenzenesulfonyl chloride, ***Spectrochimica Acta Part A 82 (2011) 332-339.*** (Impact factor: 2.353)
3. DFT studies and vibrational spectra of 2-bromomethyl-4-nitroanisole, ***Indian Journal of Pure & Applied Physics, Vol.50, January 2012,pp. 26-33*** (Impact factor: 0.766)
4. Vibrational spectroscopic investigations, first hyperpolarizability, HOMO-LUMO and NMR analyzes of p-fluorobenzonitrile, ***Spectrochimica Acta Part A 102 (2013) 59-65.*** (Impact factor: 2.353)

6. Paper Presented: 03

- Presented a research paper entitled “DFT studies and vibrational spectra of 2-bromomethyl-4-nitroanisole” in the *International Conference on Recent Frontiers in Applied Spectroscopy* organized by the Department of Physics, Annamalai University, Chidambaram during September 22nd to 24th, 2010.
- Presented a research paper entitled “Scaled quantum chemical studies of the structure and vibrational spectra of 2,4,6-trimethylphenol” in the *National Conference on Spectrophysics*, organized by the Indian Spectrophysics Association, held at Pachaiyappa’s College, Chennai during 7-8 March, 2012.
- Presented a research paper entitled Vibrational Analysis, ab initio HF and DFT studies of 2,4,6-trimethylphenol in the *International Conference on Chemistry and Materials* organized by Department of chemistry, Bharathidasan Institute Of Technology, Anna University, Tiruchirappalli –24 during Nov 14th and 15th 2014.

7. Seminars / Conferences / Workshops attended: 15

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- Participated in the UGC Sponsored National Conference on “Perspectives in Laser, Optics, Spectroscopy and Nano-science” organized by P.G. and Research Department of Physics, Bishop Heber College (Autonomous), Tiruchirappalli on 14th February 2011. Awarded the Second Best **Certificate of Merit** for poster presentation on “FTIR, FT-Raman spectra and scaled quantum mechanical study of 3-methyl-4-nitrophenol”.