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Dr.T.Beena Working as an Assistant Professor (SG) in the Department of Physics at SRMIST, Ramapuram. She has completed her Bachelor's Degree in Physics from S.D.N.B. Vaishnav College, Chrompet, Chennai, Tamilnadu, India. She has completed her Master's Degree in Physics and secured I rank from Presidency College, Chepauk, Chennai, India. She has pursued her Ph.D. in the field of Spectroscopic, Dielectric studies and Biological activities of organic compounds from SRM University, Chennai, India. She is in teaching profession for more than 21 years. She has presented number of papers in National and International Journals, Conference and Symposiums.

Areas of Research:

Spectroscopic, Dielectric Studies, Biological Activity of Organic compounds, Quantum Optics.

Selected Publications:

Web of Science/SCI

1. "Machinability behaviors of synthesized beryllium composite", **T. Beena**, N. Mary Jasmin S. Senthil, S. Sakthi, M. Ramesh Kumar, S. Rahul Alex, Ram Subbiah, Materials Today: Proceedings, 74, 40-43, 2023.
2. "Spectroscopic characterization, molecular structure, NBO analysis, dielectric studies and biological activities of 4-(3-aminophenyl) benzonitrile", **T.Beena**, G.Mariappan L.Sudha, N. Sundaraganesan, Proceedings of the Indian National Science Academy, 88, 292–299, 2022.
3. "A giant self-Kerr nonlinearity using phase-sensitive excitation in a closed three-level atomic system", **T.Beena**, J.Ayyappan, Physica Scripta, 97, 085103, 2022.
4. "Spectroscopic studies and vibrational analysis of 2-((3,4-dichlorophenyl imino)methyl)-4-bromophenol", **T.Beena**, L.Sudha, A.Nataraj, G.Mariappan, AIP Conference Proceedings, 020029 (2019), <https://doi.org/10.1063/1.5114609>
5. "Spectroscopic characterization and quantum chemical investigation of molecular structure and vibrational spectra of phthalazine-1(2H)-one" A Nataraj, **T Beena**, L Sudha, B Narayana & V Balachandran, Indian Journal of Pure & Applied Physics (IJPAP) Vol. 56, pp. 802-813, October 2018,
6. "Synthesis, spectroscopic, dielectric, molecular docking and DFT studies of (3E)-3-(4-methylbenzylidene)-3,4-dihydro-2H- chromen-2-one: an anticancer agent," **T.Beena**, L. Sudha, A. Nataraj, Chemistry Central Journal, 11(6), 2017.

7. “Dielectric and Ultrasonic studies of the drug Oxytetracycline hydrochloride in ethanol at 303 K”, **T.Beena**, L.Sudha, Indian Journal of Research, 2(8) 2013.
8. “Comparative study of Dielectric Behaviour of Binary Mixtures of Ethylene glycol with benzene and ethanol”, **T.Beena**, L.Sudha, Indian Stream Research Journal, 2(7) 2011.

Research Experience:

Co-Investigator of the Pilot Project sponsored by SRM University on “**Dielectric Studies on some Potentially Important Materials used as drugs at Microwave Frequency**” in 2009.

Book Chapters Published:

“ DFT Computational Insights into Structural, Dielectric and Spectroscopic parameters of 2-((3,4-dichlorophenyl imino)methyl)-4 Bromophenol-A Concise Experimental Approach” a book chapter published in the Book “Current Topics and Emerging Issues in Materials Science” Vol.2 by B P International Publisher ISBN: 978-81-19491-08-7.

Professional Bodies:

Member – Indian Science congress Association(ISCA), Indian association for crystal Growth(IACG)

Google Scholar:

https://scholar.google.com/citations?view_op=list_works&hl=en&user=O1smsF8AAAAJ