Dr. G. Sudha M.Sc., M.Phil., Ph.D
Assistant Professor,
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Dr. G. Sudha is working as an Assistant Professor in the Department of Physics with 5 years of experience in teaching and research. She received her Bachelor's degree (B.Sc.) in Physics from St. Xavier's College (Autonomous), Tirunelveli, in 2012, Master's degree (M.Sc.) in Physics at the same institute in 2014, Master of Philosophy (M.Phil.) in Physics at Manonmanium Sundaranar University, Tirunelveli in 2016 and Doctor of Philosophy (Ph.D.) from SRM Institute of Science and Technology, Chennai in 2024. She is to be associated with a challenging dynamic environment, add values to the organization, and concurrently maximize the skills. Her area of research interest is focused in Ceramic Materials, Impedance and Dielectric Spectroscopy, Piezoelectric, Ferroelectric. She is currently interested in the area of rare earth doped magneto-optic ceramic materials and Nanomaterials.

PROFESSIONAL EXPERIENCE

- **Assistant Professor** in Department of Physics, **SRM Institute of Science and Technology**, Ramapuram campus, Chennai from June 2024 – till date
- **PGT (Physics)** in **Everwin group of schools** in Chennai from Jan 2024 – April 2024
- **Research Scholar** in Department of Physics, **SRM Institute of Science and Technology**, Ramapuram campus, Chennai from Jan 2021 – Jan 2024.
- **Assistant Professor** in Department of Physics, **Chennai Institute of Technology** in Chennai from Dec 2016 – Feb 2017.
- **TGT (Physics)** in Velammal Matric Hr. Sec. School **(Velammal Knowledge Park)** in Chennai from May 2014 – April 2015.

LIST OF PUBLICATIONS

- **G.Sudha**, N.Karunagaran, Superior dielectric stability and dynamic infrared radiation by optimizing the concentration of Nd^{3+} ion in A-site and aliovalent ion in B-site of NBBT ferroelectric perovskite systems, Material Science in Semiconductor Processing (2024), 175, 108285 (**IF-4.6**)

- **G.Sudha**, N.Karunagaran, Composition controlled microstructural, photoluminescent, dielectric and ferroelectric properties of Dy^{3+} and isovalent ion doped NBBT binary electro-optic ceramic systems, Optical Material (2024), 150, 115191 (**IF-4.2**)
- Elaiyaraja, P., **G. Sudha**, and Y. Yu Shvets. "Spectral Analysis of Breast Cancer is Conducted Using Human Hair Fibers Through ATR-FTIR." FMDB Transactions on Sustainable Health Science Letters (2023), 1 (2), 70-81.
- **G.Sudha**, N.Karunagaran, K.Aravinth, Study of structural and microstructural contributions to the optical and dielectric properties of NBBT binary relaxor composites substituted with trivalent and non-magnetic ions, Materials Chemistry and Physics (2023), 294, 127045 (**IF-4.7**)
- **G.Sudha**, P.Elaiyaraja, N.Karunagaran, Correlation between structural, luminescence and dielectric properties of novel Sm^{3+} and trioxotungsten-doped NBBT ceramic system for multifunctional device applications, Journal of Materials Science: Materials in Electronics (2022), 33 (34), 25532-25550 (**IF-2.8**)
- SG Rejith, **G Sudha**, Investigation on Structural and Optical properties of Cadmium doped Lead Oxide Nanoparticles, International Advanced Research Journal in Science, Engineering and Technology (2017), 4 (2)

AREA OF RESEARCH

- Material Science
- Nanotechnology

RESEARCH INFORMATION

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ResearchGate: https://www.researchgate.net/profile/Sudha-g

PROFESSIONAL BODIES

Life Member in Indian Association for Crystal Growth (IACG)

International Association of Engineers (IAENG)