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Dr. M. PRABU is working as an Assistant Professor in the Department of Physics, SRM Institute of Science and Technology, Ramapuram Campus, Chennai. He Graduated in Physics from Rajah Serfoji Govt. College, Thanjavur. He Secured his Master in Physics at Chirusthuraj College, Thiruchirappalli. He completed his M.Tech., in Nanoscience and Technology at MEPCO Schlenk Engineering College, Sivakasi. He pursued his Ph.D in the field of Nano Materials and Nano Thin Film at B. S. Abdur Rahman Crescent Institute of Science and Technology, Vandalur, Chennai. He is in teaching more than 12 years. He has published 16 papers in an international peer reviewed journal. He has 138 citations in Scopus with h-index 6 and i-10 index 5.

Area of Interest

Nanomaterials, Thin Film by Pulsed Laser Deposition, Ferroelectric Materials

Selected Publications

1. A. M. Habeeb Khan, **M. Prabu**, Mathew Stephan, M. Saravanan and T.K. Sreeja, "Enhancing Dielectric and Ferroelectric Properties of PZT (52/48) Electroceramics by Niobium Doping, in J. Mater. Sci. Mater. Electron. Vol. 36, Article No. 592 **(2025)**. **(IF: 2.9) (Scimago Journal Ranging: Q2)**
2. A. M. Habeeb Khan, **M. Prabu**, Aafiya Khadeeja Khan and T.K. Sreeja, "Dielectric and Ferroelectric Characterization of Niobium Doped PZT (52/48) Nanoceramics, in J Alloy. Comp. Vol.967 **(2023)** 171529. **(IF: 6.2) (Scimago Journal Ranging: Q1)**
3. **M. Prabu**, I. B. Shameem Banu, S. Gobalakrishnan and P. K. Praseetha, "Structural studies and electrical properties of PZT (52/48) electroceramics synthesized by sol-gel route", in J. Mater. Sci. Mater. Electron. Vol. 27, **(2016)** 5351-5356. **(IF: 2.8) (SJR: Q2)**
4. **M. Prabu,** R. Jeniffa, S. Gobalakrishnan, P. K. Praseetha and T. Arun, "Dielectric Properties of Lanthanum Doped $Pb(Zr_{0.52}Ti_{0.48})O_3$ Ferroelectric Nanoceramics", in Nanoscience and Nanotechnology Letters. Vol. 8, **(2016)** 723-728. **(IF: 1.128)**

5. **M. Prabu**, I. B. Shameem Banu, S. Tiripura Sundari, R. Krishnan, S. Gobalakrishnan and Murthy Chavali, "Optical studies of pulsed laser deposited nanostructured $Pb(Zr_{0.52}Ti_{0.48})O_3$ thin film by Spectroscopic Ellipsometry", in J. Nanosci. & Nanotechnol. Vol. 14, **(2014)** 5335-5341. **(IF: 1.354)**

6. **M. Prabu,** I. B. Shameem Banu, S. Gobalakrishnan and Murthy Chavali, "Electrical and ferroelectric properties of undoped and La-doped PZT (52/48) electroceramics synthesized by sol–gel method", J. Alloy. Comp., Vol. 551, **(2013)** 200-207. **(IF: 6.2) (SJR: Q1)**.

Selected Conferences Presented

- Presented a Paper titled **"Enhancing the Dielectric and Ferroelectric Properties of Niobium Doped PZT (52/48) Nanoceramics"** in an International Conference organized by Department of Physics. SRM Institute of Science and Technology, Ramapuram, Chennai-89.
- Paper presented in an international conference, titled **"Preparation and characterization of PZT (52/48) thin films by pulsed laser deposition"** held at Alagappa University, Karaikudi-03.
- Paper presented in an international conference, titled **"Growth and structural characterization of**

  PZT (52/48) thin film by pulsed laser deposition" held at Noorul Islam University, Nagercoil-180.

  Paper presented in National level conference, titled **"Synthesis and characterization of PZT (52/48) powders by sol-gel method"** held at GKM Engineering College, Chennai-63.

Scopus Link

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