



# SRI SAI RAM ENGINEERING COLLEGE

An Autonomous Institution | Affiliated to Anna University & Approved by AICTE, New Delhi  
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## DEPARTMENT OF PHYSICS

Name : Dr. R. NIRUBAN BHARATHI

Designation : Assistant Professor

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Qualification : M.Sc.,M.Phil.,Ph.D.

Specialization : Physics

Research Interest : Magnetic Semiconductors

Experience in years : Teaching UG  PG  I  ry

No. of Workshop/Conferences/

FDP attended : Workshop  Conferences  FDP

No. of Workshop/Conferences/

FDP Organized : Workshop  Conferences  FDP



Professional Membership	-
Publications	National Journal : -
	International Journal : 09
Research Funded Projects	-
Patents	National: -
Achievements	-
Any Other Information	Anna University recognized supervisor to guide Ph.D. scholars (Reference ID: 4170048)

## List of Publications:-

1. **Niruban Bharathi, R** & Sankar, S 2018, 'Structural, optical and magnetic properties of Pr doped CeO<sub>2</sub> nanoparticles synthesized by citrate-nitrate auto combustion method', Journal of Material Science: Materials in Electronics, vol. 29, pp. 6679-6691, IF-2.779.
2. **Niruban Bharathi, R** & Sankar, S 2018, 'Effects of transition metal element (Co, Fe, Ni) codoping on structural, optical and magnetic properties of CeO<sub>2</sub>:Er nanoparticles', Superlattices and Microstructures, vol. 123, pp. 37-51, IF-3.22.
3. **Niruban Bharathi, R** & Sankar, S 2017, 'Structural, optical, and magnetic properties of Nd- doped CeO<sub>2</sub> nanoparticles codoped with transition metal elements', Journal of Superconductivity and Novel Magnetism, vol. 31, pp. 2603-2615. IF-1.675.
4. **Niruban Bharathi, R** & Sankar, S 2018, 'Investigation of transport properties of Pr doped cerium oxide nanoparticles as a solid electrolyte for IT-SOFC applications', Journal of Inorganic and Organometallic Polymers and Materials, vol. 28, pp. 1829-1838. IF-3.518.
5. Dhinesh B, **Niruban Bharathi R**, Isaac Joshua Ramesh Lalvani J, Parthasarathy M, Annamalai K 2017, 'An Experimental Analysis on The Influence Of Fuel Borne Additives On The Single Cylinder Diesel Engine Powered By Cymbopogon Flexuosus Biofuel', Journal of the Energy Institute, vol. 90, pp. 634-645, IF-6.47.
6. **Niruban Bharathi, R** & Sankar, S 2015, 'Mg Doping Effects on The Physical Properties Of Lead Sulphide Thin Films', International Journal of ChemTech Research, vol. 7, pp. 980-986, IF-0.515.
7. Krithiga R, Sankar S, Subhashree G, and **Niruban Bharathi R** 2015, 'Structural and Optical Properties of ZnO: K Synthesized by Sol-Gel Auto- Combustion Route', AIP Conference Proceedings, vol. 1665, pp. 120004, IF-0.40.
8. **Niruban Bharathi R**, Tholkappiyan Ramachandran, Rekha G 2023, 'Cu-Doping-Induced Modulation of Crystal Structure and Magnetic Anisotropy in Dy<sub>3</sub>Cu<sub>x</sub>Fe<sub>5-x</sub>O<sub>12</sub> Garnet Nanocrystals', Applied Physics A Materials Science & Processing, vol. 129, pp. 481, IF-2.983.
9. **Niruban Bharathi R**, Tholkappiyan Ramachandran, Rekha G 2023, 'Investigation of Mixed Electronic States in Dy<sub>3</sub>Fe<sub>5</sub>O<sub>12</sub> Produced By Doping With Nickel', Journal of Cluster Science vol. 35, pp. 545, IF-3.6.

## Workshop / Conferences / FDP Attended:-

1. FDP on "Research Skills and Techniques" from 24<sup>th</sup> March to 25<sup>st</sup> March 2021 at Reva University, Bangaluru.
2. FDP on "Fundamentals of Nanomaterials and its applications to Science and Engineering" on 29 May 2021 at CSI Coolege of Engineering, Ooty.
3. FDP on "Materials for Energy and Biomedical Applications" from 31<sup>st</sup> May 2021

to 04<sup>th</sup> July 2021 at GMR Institute of Technology, Andra Pradesh.

4. FDP on “Advances in Materials, Nano-Composites and its Applications” from 12<sup>th</sup> September to 17<sup>th</sup> September 2022 at VelTech MultiTech Dr. Rangarajan Dr. Sakunthala Engineering College, Chennai.
5. FDP on “One Week National Level Online Faculty Development Program on Functional Materials” from 22 May 2023 to 26 May 2023 at T.J.S. Engineering College, Chennai.
6. International Conference on “Nanoscience and Nanotechnology (ICONN-2015)” from 04<sup>th</sup> February 2015 to 6<sup>th</sup> February 2015 at SRM University, Chennai.
7. 2<sup>nd</sup> National Conference on “Materials for Energy Conservation and Storage (MECS- 2016)” from 11<sup>th</sup> March 2016 and 12<sup>th</sup> of March 2016 at Pondicherry University, Pondicherry.
8. 2<sup>nd</sup> National conference on “Emerging Trends in Science and Humanities (NCETSH-2013)” on 5<sup>th</sup> April 2013 at Saveetha Engineering College, Chennai.
9. National Conference on “Physics and Chemistry of Solids (NCPCS- 2013)” from 12<sup>th</sup> April 2013 and 13<sup>th</sup> April 2013 at S.R & B.G.N.R Govt Arts and Science college, Khamman, Andra Pradesh.
10. National Seminar on “Positron Annihilation” on 5<sup>th</sup> September 2014 at University of Madras, Chennai.
11. Workshop on “**Author Workshop on Book/Journal Publishing**”, on 24<sup>th</sup> September 2014 organized by Elsevier Research solution at Anna University, Chennai.
12. Short-Term Course on “Research Methodology, Techniques of writing Research Articles”, from 27<sup>th</sup> February 2013 to 28<sup>th</sup> February 2013 at Anna University, Chennai.
13. Workshop on “**Routledge Editorial Workshop 2016**” on 03<sup>rd</sup> August organized by Taylor and Francis along with University Library at Anna University, Chennai.