

# CURRICULUM VITAE

## **Dr. S. LOURDURAJ**

Assistant Professor  
Department of Physics  
St. Joseph's College (Autonomous)  
Tiruchirappalli, Tamil Nadu,  
South India.



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## **PERSONAL:**

Name : **S. LOURDURAJ**  
Date of Birth : April 10, 1982  
Educational  
Qualification : M.Sc., M. Phil., B.Ed., Ph.D.,  
Nationality : Indian  
Sex : Male  
Marital Status : Married

## **EDUCATION:**

- Ph.D. in Thin Film Physics from Bharathidasan University, Tiruchirappalli—on pursuit.
- M.Phil. Physics, St. Joseph's College (Autonomous), Affiliated by Bharathidasan University, Tiruchirappalli.
- B.Ed. Physical Science from Meston College of Education (Autonomous), Affiliated by university of Madras, Chennai.
- M.Sc. Physics, St. Joseph's College (Autonomous), Affiliated by Bharathidasan University, Tiruchirappalli
- B.Sc. Physics, St. Joseph's College (Autonomous), Affiliated by Bharathidasan University, Tiruchirappalli.

## **EMPLOYMENT RECORD:**

- Assistant Professor: Department of Physics, Nehru Memorial College (Autonomous), Tiruchirappalli from December 2005 to August 2006.
- Assistant Professor: PG and Research department of Physics, St. Joseph's College (Autonomous), Affiliated by Bharathidasan University, Tiruchirappalli from June 2007.

## **JOURNAL PUBLICATIONS:**

1. Lourduraj S, Victor Williams R, (2016), Structural and optical characterization of synthesized TiO<sub>2</sub> nano powder using sol-gel technique, INTERNATIONAL JOURNAL OF NANO SCIENCE, vol.15, pp. 1650002. ISSN. : 0219581X, doi: 10.1142/S0219581X16500022.
2. Lourduraj S, Victor Williams R, (2017), Effect of iron doping on structural and optical properties of TiO<sub>2</sub> thin film by Sol-Gel routed spin coating technique, INTERNATIONAL JOURNAL OF ADVANCED DIELECTRICS, vol.7, pp. 1750024, doi: 10.1142/S2010135X17500242.
3. Lourduraj S, Victor Williams R, (2017), Effect of molarity on sol-gel routed nano TiO<sub>2</sub> thin films, INTERNATIONAL JOURNAL OF ADVANCED DIELECTRICS, 2017, vol.7, pp. 1750042. doi: 10.1142/S2010135X17500424.
4. Lourduraj S, Victor Williams R, Synthesis, Characterization and application of Co doped nano TiO<sub>2</sub> thin films by Sol-Gel routed Spin coating Technique, INTERNATIONAL JOURNAL OF MATERIALS TODAY: PROCEEDINGS-2022.
5. Lourduraj S, Kirshnaprasad V, Synthesize, Preparation and Characterization of Sol-Gel through Spin Coated Single Layer Nano Titanium Dioxide Thin Films for Anti-Reflection Coating, INTERNATIONAL CONFERENCE ON EMERGING MATERIALS AND ITS APPLICATIONS, CONFERENCE PROCEEDINGS: ICEMA-2022. Published on Referred, ISBN NO: 978-81-956471-0-1.

## **CONFERENCE PAPERS PRESENTED/ATTENDED**

1. Lourduraj S, (2023), Effect of annealing temperature on structural, optical, electrical and optoelectronic Properties of lead doped nanocrystalline TiO<sub>2</sub> thin films, International Conference on Current Research and Advancements in Materials Science and Apectroscopy (ICCAMS 2023), St. Joseph's College, Tiruchirappalli, 10<sup>th</sup> Feb 2023.

2. Lourduraj S, (2022), Preparation and Characterization of Sol-Gel Routed Ni-Doped Nano TiO<sub>2</sub> Thin Film Photo Electrode for Solar Cells, INTERNATIONAL CONFERENCE ON CRYSTAL GROWTH AND SPECTROSCOPY (ICCGS-2022), Department of Physics, St. Joseph's College, SSN College, IACG, Indian Spectroscopy Association Chennai Chapter, 29<sup>th</sup> August 2022.
3. Lourduraj S, Victor Williams R, (2022), Synthesis, Characterization and application of Co doped nano TiO<sub>2</sub> thin films by Sol-Gel routed Spin coating Technique, International Conference on Advanced Materials ICAM- 2022, St. Joseph's College, Tiruchirappalli, 11-12 Feb 2022.(Paper Presentation)
4. Kirshnaprasad V, Lourduraj S, Synthesis, Preparation and characterization of Sol-Gel through Spin coated nano Titanium dioxide thin films for anit-reflection coating in Solar Cell Applications, International Conference on Advanced Materials ICAM- 2022, St. Joseph's College, Tiruchirappalli, 11-12 Feb 2022.(Poster Presentation)
5. Lourduraj S, Victor Williams, " Preparation and characterization of Sol-Gel routed Ni doped nano TiO<sub>2</sub> thin film photo electrode for solar cells, International Web Conference on Advanced Materials (IWCAM-2019), St. Joseph's College (Autonomous), Tiruchirappalli, 28<sup>th</sup> February to 1<sup>st</sup> March 2019.(Poster Presentation).
6. Lourduraj S, Victor Williams, "Effect on molarity on sol-gel routed TiO<sub>2</sub> thin films", International Conference on Recent Trends in Material Science and Its Applications, (ICRM-2017), Urumu Dhanalakshmi College, Kattur, Tiruchirappalli, 21<sup>st</sup> August, 2017.(Oral Presentation).
7. Lourduraj S, Victor Williams, " Effect of iron doping on structural and optical properties of TiO<sub>2</sub> thin film by sol-gel routed spin coating technique, International Conference on Advances in Material Science (ICAMS-2017), Holy Cross College (Autonomous), Tiruchirappalli, 6<sup>th</sup> and 7<sup>th</sup> January 2017.(Oral Presentation).
8. Lourduraj S, Victor Williams, Influence of spin coating speed to the optical and structural properties of Nano TiO<sub>2</sub> thin films, National conference on Advanced Materials (NCAM-2015), St. Joseph's College (Autonomous), Tiruchirappalli, 6<sup>th</sup> February 2015.(Poster Presentation).
9. Lourduraj S, Victor Williams, " Structural and Optical Properties of Ni-doped Nano-TiO<sub>2</sub> Preparation and characterization of Sol-Gel Technique", Tamil Nadu State Council for Science & Technology sponsored National Conference on recent Trends in Advanced Materials (RTAM -2019), PGP College of Arts and Science, Namakkal, 23<sup>rd</sup> January 2019.

## **RESEARCH EXPERIENCE**

Areas of Research Interest : Thin Films Physics

Title of the Ph.D. thesis : PREPARATION AND CHARACTERISATION OF SOL-GEL ROUTED SEMICONDUCTING TiO<sub>2</sub> METAL OXIDE THIN FILMS

Year of award of degree : 2019.

Name of the Institution / University : St. JOSEPH'S COLLEGE (Autonomous), Tiruchirappalli. Bharathidasan University, Tiruchirappalli

## **BOOK / CHAPTER PUBLICATIONS**

Book Title : **ASSORTED DIMENSIONAL RECONFIGURABLE MATERIALS**  
ISBN : 978-1-78985-514-2  
Book Chapter Title : TITANIUM DIOXIDE VERSATILE SOLID CRYSTALLINE: AN OVERVIEW  
DOI : 10.5772/intechopen.92056  
Published Date : 18<sup>th</sup> May 2020.  
Publishers : Intech Open Ltd, London, UK

## **RESEARCH PROJECT SANCTIONED**

- 1. Research Project** : **ST. JOSEPH'S RESEARCH GRANT (SJCRG -2021-2022).**  
Project Sanctioned Amount : 10,000/-  
Status : **Completed.**  
Student name : Mr. V Krishnaprassad, II MSc Physics, (2021-2023 Batch)  
Research Project Supervisor : Dr. S. LOURDURAJ,  
Assistant Professor, Department of Physics,  
St. Joseph's College (Autonomous),  
Tiruchirappalli.
- 2. Research Project** : **ST. JOSEPH'S RESEARCH GRANT (SJCRG -2023-2025).**  
Project Sanctioned Amount : 60,000/-  
Status : **On-going.**

## **ADMINISTRATIVE CAPACITIES HELD**

- Severed as the coordinator of the Department of physics 2021-2024.
- An Additional Chief Superintendent for the Even semester Examination 2023.
- Assistant Coordinator in Fabrication Laboratory (FAB-LAB), Department of Physics since 2019.

## **ORGANIZATION OF WORKSHOPS / CONFERENCES**

- Joint Organizing Secretary in CSIR and DRDO Sponsored “International Conference on Advanced Materials (ICAM-2023)” on 8<sup>th</sup> and 9<sup>th</sup> December 2023.
- Co-coordinator in ANU Awareness Programme 2023 on Atoms in the Service of the Nation, jointly organized Department of Physics, St. Joseph's College (Autonomous), and Indira Gandhi Centre for Atomic Research, Kalpakkam and The Academies of Sciences on 30 Nov & 1 Dec 2023.

## **MEMBERSHIP OF PROFESSIONAL SOCIETIES:**

- An External examiner for central valuation of the Bharathidasan University in the years of 2010, 2011 and 2012.
- External Examiner for Semester practical examinations in Holy Cross College, Tiruchirappalli
- External Examiner for Semester practical Examinations in Bishop Heber College, Tiruchirappalli

## **IN-SERVICE TRAINING ATTENDED (ORIENTATION / REFRESHERS)**

- National Level Faculty Development Program on EV Technology: Battery Modelling, Sensors, BMS, Motors, and E-Bus Charging, Dept. of Electrical and Electronics Engineering, Vidya Vikas Institute of Eng. Vviet,, Mysore, 12 Aug 2024.
- Faculty Development Programme on Patents and Consultancy, Internal Quality Assurance Cell and Joseph Start-Up Centre, St. Joseph's College, 20 Nov 2023.
- Faculty Development Programme (FDP) on Intricacies of writing for Research Publications and Reports, Internal Quality Assurance Cell, St. Joseph's College, 27<sup>th</sup> Oct 2023.
- One Week National Level Online Faculty Development Programme (FDP) on Advanced Research Methodology in Physical Sciences, Department of Physics, Rajapalayam Rajus College, 3<sup>rd</sup> Oct to 9<sup>th</sup> Oct 2023.
- Orientation Program for the Teaching Faculty, Internal Quality Assurance Cell, St. Joseph's College, 15 July 2023.

- FDP on LOCF A Reformative Roadmap towards Excellence, IQAC, St. Joseph's College, 20 Feb 2023.
- International Faculty Development Program (FDP-2.0) on Recent Research in Materials physics & Nano Devices, Dept of Physics & IQAC, Rajapalayam Raju's College, Rajapalayam, 21<sup>st</sup> Nov to 25<sup>th</sup> Nov 2022.
- Science Academies' Refresher Course in Theoretical Physics, Department of Physics, St. Joseph's College (Autonomous), Tiruchirappalli, 1st Jan to 16th Jan 2022.
- Two-Day Orientation Program for Faculty on Recent Trends in Higher Education, St. Joseph's College (Autonomous), Tiruchirappalli, 15<sup>th</sup> July – 16<sup>th</sup> 2022.
- Short Term Training Programme (online) on " Emerging Trends in Nanomaterials for Electronic and optoelectronics devices, Department of Electronics and communication Engineering, Swarnandhra College of Engineering & Technology, Kakinada, 17<sup>th</sup> May to 22<sup>nd</sup> May 2021.
- Web based Short Term Course on Practical Considerations and system Aspects of Solar Photovoltaics, Department of Physics, Kongunadu Arts and science College, 10<sup>th</sup> June To 12 June 2021.
- FDP on " Smart Sensors Based Industrial Automation and Healthcare Technology, AICTE Training and Learning (ATAL) Academy, P. S. R. Engineering College, 7<sup>th</sup> June to 11 June 2021.
- Faculty Development Programme on "Preparing E-Content for MOOCs on SWAYAM", St. Joseph's College, Trichy-2, 23 Oct 2021.
- Faculty Development Programme on "Open Educational Resources"- Search, Identify Repurpose and create your OER, St. Joseph's College, Trichy-2, 25 Sep 2021.
- Science Academies' Refresher course on Quantum Mechanics, Periyar EVR College (Autonomous), Tiruchirappalli, 27<sup>th</sup> Nov 2017 to 9<sup>th</sup> Dec 2017.
- Basic Skills in Counseling, St. Joseph's College (Autonomous), Trichy-2, Six days in 2016.
- On Going Faculty Training Programme for Teachers, 13-05-2014 to 21-05-2014 at St. Joseph's College (Autonomous) and Jesuit Higher Education commission (JHEC) of Madurai Province at St. Joseph's College, Trichy.
- Pursuing Socially relevant Research possibilities and concerns Research day, 28<sup>th</sup> Jan 2012 at St. Joseph's College (Autonomous), Trichy-2.
- DAE - BRNS 6<sup>th</sup> National Symposium on "Pulsed Laser Deposition of thin films and Nanostructured materials (PLD- 2011)", 9 to 11 Nov 2011, MRC, IISC, Bangaluru.
- Orientation Programme for Staff-Freshers, St. Joseph's College (Autonomous), Trichy, 11<sup>th</sup> to 13<sup>th</sup> June 2009.

***S. LOURDURAJ***