


Sri Sai Ram Engineering College
Department Of Humanities And Sciences

Name : Dr. R. SHARAN	
Designation :	Assistant Professor
Qualification :	Master of Science (M.Sc.), Doctor of Philosophy (Ph. D.)
Area of Specialization :	Electrochemical Gas Sensor, Nanomaterials
Experience :	Teaching : UG : 2 years and 7 months PG : 0 yrs
	Industry : Nil
No. of Workshop / Conferences / FDP attended	Workshop – 02 / Conferences – 04 / FDP - 06
Publications :	Journals National : Nil International : 04
	Conferences National : Nil International : Nil
Research Guidance :	Recognized Anna University Supervisor Topics: Materials Science, Gas Sensor, Nanomaterials
General :	Nil
Staff Achievements:	Nil

Educational Qualification:

Category	Name of the Degree	Specialization	Year of Passing	Name of the College	Name of the University	% of Marks / Grades obtained	Class obtained
UG	B. Sc.	Physics	2012	Acharya Arts and Science College, Puducherry	Pondicherry University	72	First Class
PG	M. Sc.	Physics	2014	St. Josephs College, Tiruchirappalli	Barathidasan university	81	Distinction
	M.Phil.	-	-	-	-	-	-
Ph.D.	Ph.D.	Physics / Materials Science	2020	Vellore Institute of Technology, VIT Chennai	Vellore Institute of Technology, VIT Chennai	Highly recommended	

Academic Experience:

Name of the College	Designation	Joining Date	Relieving Date	Experience		
				Years	Months	Days
Easwari Engineering College	Assistant Professor	25/01/2021	25/09/2023	02	08	00
Sri Sai Ram Engineering College	Assistant Professor	27/09/2023	Till date	0	1	00
Total				02	08	00

PUBLICATIONS

Journals:

- Sharan, R.**, and Atanu Dutta. "Structural analysis of Zr⁴⁺ doped ceria, a possible material for ammonia detection in ppm level." *Journal of alloys and compounds* 693 (2017): 936-944.
- Sharan, R.**, Mainak Roy, A. K. Tyagi, and Atanu Dutta. "Lanthanum gallate based amperometric electrochemical sensor for detecting ammonia in ppm level: Optimization of electrode compositions." *Sensors and Actuators B: Chemical* 258 (2018): 454-460.
- Nithya, S., **R. Sharan**, Mainak Roy, Hack Ho Kim, Tatsumi Ishihara, and Atanu Dutta. "Ni doping in CuO: a highly sensitive electrode for sensing ammonia in ppm level using lanthanum gallate based electrolyte." *Materials Research Bulletin* 118 (2019): 110478.

4. **Sharan, R.**, Mainak Roy, and Atanu Dutta. "Sensing behaviour investigation of amperometric electrochemical NH₃ sensor: optimization of lanthanum gallate based electrolyte composition." *Journal of The Electrochemical Society* 167, no. 11 (2020): 117508.

Book Chapters:

1. **R. Sharan** and C. Manjula, Chapter 34, "**Nanomaterial**," Novel materials for Emerging Applications, Shanlax Publication, ISBN 9789391373108
2. **R. Sharan** and K. Saravanan, Chapter 35, "**Sensor materials for Environmental monitoring**," Novel materials for Emerging Applications, Shanlax Publication, ISBN 9789391373108

Conferences/Seminars/Webinars:

1. Presented a paper (Oral) at Conference on Emerging Materials (CEMAT-2016), held at the Indian Institute of Science, Bangalore, during 18-19 July 2016.
2. Presented a paper (Poster) at the 6th DAE-BRNS Interdisciplinary Symposium on Materials Chemistry (ISMC-2016), held at Bhabha Atomic Research Centre (BARC), Mumbai, during 06-10 December 2016.
Received Best poster award (2nd Prize)
3. Presented a paper (Oral) at the 20th National Convention of Electrochemists (NCE-20) conducted by the Society for Advancement of Electrochemical Science and Technology (SAEST), CECRI Karaikudi, during 07-08 June 2018.
Received Best paper award (1st Prize)
4. Presented a paper (Poster) at the 7th DAE-BRNS Interdisciplinary Symposium on Materials Chemistry (ISMC-2018), held at Bhabha Atomic Research Centre (BARC), Mumbai, during 04-08 December 2018.
Received Best poster award (1st Prize)

Workshops:

1. Participated at the **National Workshop on Theory and Practice of Powder X-Ray Diffraction Analysis (NWPXRD-2017)** held at Pondicherry University, Puducherry on 23 & 24th December 2017 organized by Centre for Nanoscience and Technology (CNST) Pondicherry University.

2. Attended Professor Prashant V. Kamat's school on **Applications of functional materials for electrochemical energy conversion** organized by the India Section of the Electrochemical Society held at Amirta Vishwa Vidyapeetham University, Coimbatore during 26- 28 December 2017.

FDP:

1. NPTEL – AICTE Faculty Development Program, **Theory and Practice of Non Destructive Testing**, January – March 2021.
2. AICTE 5 day Faculty Development Program, **“Inculcating Universal Human Values in Technical Education”** organized by All India Council for Technical Education (AICTE), 31st May – 4th June 2021.
3. AICTE Training And Learning (ATAL) Academy, Online Elementary FDP on **"Novel Materials"**, Indian Institute of Technology Bhilai, 5th July – 9th July 2021.
4. AICTE Training And Learning (ATAL) Academy, Online Elementary FDP on **"Recent Trends in Green Technologies for sustainable Development"**, University College of Engineering & Technology, Bikaner, 13th September – 17th September 2021.
5. AICTE Training And Learning (ATAL) Academy, Online Elementary FDP on **"AICTE Training and Learning Sponsored Virtual Faculty Development Program on Sensor Technology"**, K S R College of Engineering, 04th October – 10th October 2021.
6. Tamilnadu State Government sponsored Two Week Faculty Development Program on, **“Exploring the Fabrication Techniques, Characterizations and Applications of Functional Materials”**, Faculty Development Training Centre, Department of Physics, Alagappa Chettiar Government College of Engineering and Technology, Karaikudi, 13th June – 20th June 2022.
7. NPTEL – AICTE Faculty Development Program, **Selection of Nanomaterials for Energy Harvesting and Storage Application (Elite + Silver)**, July – August 2022
8. NPTEL – AICTE Faculty Development Program, **Advanced Materials and Processing (Elite)**, August-October 2023