

Name: Dr. R. MOHAN				
Designation:	Associate Professor			
Qualification:	M.Sc., B.Ed., M.Phil., Ph. D.			
Area of specialization:	Materials science, Supercapacitor, Ferrites, Electrochemistry & Nanomaterials			
Experience:	Industrial Experience	Postdoctoral Experience	Teaching Experience	
	-	-	13 Years 10 Months	
Number of workshops / FDP attended:	Number of Workshops		Number of FDPs	
	1		4	
Publications:	Conference		Journal	
	National	International	National	International
	-	-	-	12
Books / Book Chapters	3			
Patents:	National		International	
	1		-	
Research Guidance	Completed		Ongoing	
	-		-	
Professional Body Membership	IEEE			

Research	Google Scholar ID: CiAUqtMAAAAJ Researcher ID: KMA-1121-2024 Orcid ID: 0000-0003-1971-1622 Scopus ID: 59099479700 Anna University Guideship: Nil
Staff Achievements	1. 100% results in ECE B 2023 - 2024 (SEM I & SEM II) 2. 100% results in MAE 2024 - 2025 (SEM II) 3. Skills Rack Appreciation Award Programme scheduled to be held on 29/04/2025. 4. 100% results in AIDS B 2025 - 2026 (SEM I)

Educational Qualifications:

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	2004	S.S.D.M College of arts and Science Kovilpatti	Manonmaniam Sundaranar University	6.5	I
PG	M.Sc.,	Physics	2006	Annamalai University	Annamalai University	6.9	I
	M.Phil.	Physics	2010	Annamalai University	Annamalai University	8.3	I & Distn
Doctorate	Ph. D.	Physics	2016	Manonmaniam Sundaranar University	Manonmaniam Sundaranar University	Highly Commented	

Academic Experience:

Name of the College	Designation	Joining Date	Relieving Date	Experience		
				Years	Months	Days
Sri Sairam Engineering College, Chennai	Associate Professor	1/11/2024	Till date	01	03	25
Sri Sairam Engineering College, Chennai	Assistant Professor	27/11/2023	31/10/2024	0	11	02
S.S.D.M College of Arts and Science Kovilpatti	Assistant Professor	02/07/2018	31/12/2021	3	5	30
Surya Group of Institutions, Vikiravandi	Assistant Professor	01/06/2011	30/06/2018	7	0	30
National Engineering College, Kovilpatti	Assistant Professor	26/05/2010	31/05/2011	01	0	06
Total				13	10	03

Workshops/Seminars attended:

1. Participated at the “Interactive Workshop on Electrochemical Technologies : Emphasizing Batteries, Supercapacitors, and Fuel Cells.” held at VIT – Vellore, on 05th and 06th December 2024 organized by Centre for Nanotechnology Research, Vellore Institute of Technology, Vellore in association with ECS IITM Student Chapter & AMETEK Princeton Applied Research, Solartron Analytical.

FDP/STTP Attended:

1. Two days Hybrid mode FDP on “ Advances in Material Science (AMS – 2024), Sri Sairam Institute of Technology” on 04.04.2024 & 05.04.2024
2. NPTEL – AICTE Faculty Development Program, Fundamentals of Electronic Device Fabrication, July – August 2024
3. NPTEL – AICTE Faculty Development Program, Physics of Materials, July – October 2024.
4. Inculcating Universal Human Values in Technical Education - Organized by All India Council for Technical Education (AICTE) at Sri Sai Ram Engineering College, Chennai from 4th December to 6th December 2025.

Conference/ Symposium Attended:

1. National Seminar on Crystal Growth & Nano Materials – Sivandhi Adithnar College of arts & science at Thiruchendur.
2. National Seminar on Crystal Growth in S-R Method – S.S.N college of engineering at Chennai.
3. National Seminar on Material Science – Manonmaniam Sundaranar University at Tirunelveli.
4. International conference on advanced material science – Annamalai University.
5. National Seminar on recent trends on advanced materials – Noor Islam University, Kanyakumari.
6. International conference on green technologies for environmental pollution control and prevention (Ic GEPTC 2014) – NIT, Trichy.

7. International conference on Nanoscience and Nanotechnology (ICONN 2015) – SRM University, Chennai.
8. National seminar on recent advances on luminescent materials (ralm-2015) – Annamalai University, Chidambaram, Tamil Nadu.
9. Recent Frontiers in Bioinorganic and Medicinal Chemistry (Rfbmc – 2015), Sree Sowdambika College of Engineering, Aruppukottai, Tamil Nadu” on 27 - 28 November 2015.

Patents:

1. D.B.N.S.Varma, Dr.M.Srilakshmi, Dr.K.Kalaiarasi, Dr.Neredimelli Udaya Sri, Dr.N.Punitha, Dr.Sumanta Battacharya, Dr.T.Asai Thambi, **Dr.R.Mohan** Dr.Shruti D L, “Eco- friendly and biocomposite ZnO nanoparticles production for sunscreen and therapeutic formulation” [U/S Publication 05/07/2024 11A].

Journal Publications:

1. **R.Mohan** and K.Jayamoorthy. Ni doped ZnS nanoparticles encapsulated in Polypropylene glycol: exploring Synthesis, structural integrity, optical behavior and thermal stability, Journal of Materials Science: Materials in Electronics 36 (2025) 1580 – 1593.
2. **R. Mohan**, C. Rakkappan, N. Punitha, K. Jayamoorthy, P. Magesan and N. Srinivasan, Investigations on capping-induced changes in structural, optical, and thermal properties of Zn_{0.96}Ni_{0.04}S nanoparticles, Chemical Physics Impact Vol 7, December 2023, 100260. <https://doi.org/10.1016/j.chphi.2023.100260>
3. **R. Mohan** , C. Rakkappan , N. Punitha , K. Jayamoorthy , and G. Venkatesh, Effect of MPA capping on the structural, optical and thermal properties of Zn_{0.96}Ni_{0.04}S nanoparticles, Inorganic and Nano-metal chemistry 53:9(2023), 970 – 976
4. **R.Mohan**, C.Rakkappan, N.Punitha, K.Jeyamoorthy and K.L.Dhanalekshmi. Effect of Polyehylene glycol capping on structural, optical and thermal properties of ZnS: Ni²⁺ nanoparticles, Inorganic and Nano-metal chemistry 52:5(2021), 726 – 733.
5. **R.Mohan**, S.SankarRajan and G.Thirupathi. Structural and optical properties of pHEMA encapsulated ZnS:Ni²⁺ nanoparticles. Spectrochimica Acta Part A:Molecular and biomolecular spectroscopy.146 (2015) 7 – 12.
6. V. Venkatasubbian, **R.Mohan**, N.Punitha, K.Thamizharasan. Structural and optical behavior of thermally stable co-doped ZnS nanocrystallites. Materials Letter173(2016)5–8.
7. **R.Mohan** and S.SankarRajan. Synthesis & Optical Characterization of SHMP capped ZnS nanoparticles. Internal journal of Pure and Industrial physics, 2010, 1 101 – 106.
8. **R.Mohan**, S.SankarRajan and P. Santham. Optical, structural and morphological studies of ZnS nanoparticles by chemical precipitation method. International Journal of Recent Scientific Research 2013, 4: 405 – 409.

9. **R.Mohan**, S.SankarRajan and P. Santham. Highly monodisperse polymer-capped ZnS nanoparticles: preparation and optical properties. International Journal of Recent Scientific Research 2013, 4: 420 – 424.
10. N.Punitha, P.Saravanan, P.S.Ramesh, **R.Mohan**. Antifouling Activities Of β -Cyclodextrin Stabilized PEG Based Silver Nanocomposites. Applied Surface Science 392 (2017) 126–134.
11. V. Venkatasubbian, **R.Mohan** N.Punitha, K.Thamizharasan. Synthesis, Characterization and Optical properties of ZnS nanoparticles codoped with Ni^{2+} and Co^{2+} , Journal of Chemical and Pharmaceutical Research 8 (2016)115 – 120.
12. V. Venkatasubbian, K.Thamizharasan, **R.Mohan** and N.Punitha, Structural and Optical characterization of ZnS nanoparticles codoped with Ni^{2+} and Cu^{2+} , International Journal of ChemTech Research 7 (2015) 1586 – 1591.

Books / Book Chapters:

1. **R.Mohan**, Merlyn Sujatha Rajakumar, Muthu Thangaraj and Anand Kumar “Chapter 9 Technologies converting municipal solid waste to energy : Recent trends and prospects”, Transformation of Solid Waste to Energy Methods, Challenges and opportunities, Volume 1 Elsevier Publication (Science direct).
2. Muthu Thangaraj, Merlyn Sujatha Rajakumar, **R.Mohan**, Sowmya Senthilkumar and Naveenprasanth Vaitheeshwaran, “Chapter 7 Latest developments and emerging trends in waste to energy conversion: Innovations and technologies”, Transformation of Solid Waste to Energy Methods, Challenges and opportunities, Volume 1 Elsevier Publication (Science direct).
3. R. Sharan, S. Prabhakaran, **R. Mohan**, Chapter 7 – “Screen Printed Electrodes for Detection of Neurotransmitters”, Future Approaches to Electrochemical Sensing of Neurotransmitters, Royal Society of Chemistry (RSC).

Online Courses:

1. NPTEL – AICTE , Theory and Practice of Non Destructive Testing, Jan – Mar 2024
2. NPTEL – AICTE, Fundamentals of Electronic Device Fabrication, July – August 2024
3. NPTEL – AICTE Physics of Materials, July – October 2024.