

Name: Dr. R. MOHAN	Photo 			
Designation:	Associate Professor			
Qualification:	M.Sc., B.Ed., M.Phil., Ph. D.			
Area of specialization:	Materials science, Supercapacitor, Ferrites, Electrochemistry & Nanomaterials			
Experience:	Industrial Experience		Teaching Experience	
	Nil		12 Years 11 Months	
Number of workshops / FDP attended:	Number of Workshops		Number of FDPs	
	01		03	
Publications:	Conference		Journal	
	National	International	National	International
	-	-	-	11
Books / Book Chapters	2			
Patents:	National		International	
	01		0	
Professional Body Membership	IEEE			

Staff Achievements

100% results in ECE B 2023 - 2024 (SEM I & SEM II)

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
Ph.D.	Ph.D.	Physics	2016	Manonmaniam Sundaranar University	Manonmaniam Sundaranar University	-	

Academic Experience:

Name of the College	Designation	Joining Date	Relieving Date	Experience		
				Years	Months	Days
National Engineering College, Kovilpatti	Assistant Professor	26/05/2010	31/05/2011	01	0	06
Surya Group of Institutions, Vikiravandi	Assistant Professor	01/06/2011	30/06/2018	7	0	30
S.S.D.M College of Arts and Science Kovilpatti	Assistant Professor	02/07/2018	31/12/2021	3	5	30
Sri Sai Ram Engineering College	Assistant Professor	27/11/2023	31/10/2024	0	11	02
	Associate Professor	1/11/2024	Till date	0	5	02
Total				12	11	08

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

Symposium Attended:

Conference Attended:

1. National Seminar on Crystal Growth & Nano Materials – SivandhiAdithnar 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 – ManonmaniamSundaranar 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 InBioinorganic and Medicinal Chemistry (Rfbmc – 2015), SreeSowdambika College of Engineering, Aruppukottai, Tamil Nadu” on 27 - 28 November 2015.

Completed / Ongoing Projects:

Patent:

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**, 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>
2. **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
3. **R.Mohan**, C.Rakkappan, N.Punitha, K.Jeyamoorthyand 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.
4. **R.Mohan**, S.SankarRajanandG.Thiruppathi.Structural and optical properties of pHEMA encapsulated ZnS:Ni²⁺ nanoparticles. *SpectrochimicaActa Part A:Molecular and biomolecular spectroscopy*.146 (2015) 7 – 12.
5. **R.Mohan**, V. Venkatasubbian, N.Punitha, K.Thamizharasan. Structural and optical behavior of thermally stable co-doped ZnSnanocrystallites.*Materials Letter*173(2016)5–8.
6. **R.Mohan** and S.SankarRajan. Synthesis & Optical Characterization of SHMP capped ZnS nanoparticles.*Internal journal of Pure and Industrial physics*, 2010, 1 101 – 106.
7. **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.
8. **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.

9. 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.
10. 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.
11. N.Punitha **R.Mohan**, V. Venkatasubbian, , K.Thamizharasan. 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 , S. Prabhakaran, **R. Sharan**, Chapter 6 – “**Design and Development of Immunosensor for detection of Neurotransmitters**”, Future Approaches to Electrochemical Sensing of Neurotransmitters, Royal Society of Chemistry (RSC)
2. **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)