Dr. M. Ragam

Designation : Assistant Professor

Department : Physics

Email ID : mraagam.physics@gmail.com

Languages Proficiency

Read : Tamil, English & Hindi

Write : Tamil, English & Hindi

Speak : Tamil & English

1. Qualification

S. No.	Degree / Diploma / Certificate	Discipline	Name of the Institution	Year of Passing
1.	UG	Physics	Fatima College, Madurai	2003
2.	PG	Physics	Fatima College, Madurai	2005
3.	M.Phil.	Physics	Bharathidasan University, Trichy	2006
4.	Ph.D.	Physics	Madurai Kamaraj University, Madurai	2013
5.	Diploma	Computer Applications	Plus Point Systems & Softwares, Madurai	2004
6.	Certificate	Hindi	Hindi Prachar Sabha, Madurai	2002
7.	Technical	Typewriting- Tamil, English	Dote, Chennai	2000
8.	SET/NET	Physics	Mother Teresa University, Kodaikanal	2016

2. Teaching Experience / Other Experience

S. No.	Institution / Organization	From - To
1.	K.L.N. Polytechnic, Madurai	June 2005 - July 2006
2.	Yadava College, Madurai	July 2006 - May 2013
3.	Fatima College, Madurai	June 2013-till date

3. Position Held in Fatima (Vice Principal, HoD, Dean, Coordinator, Member etc.)

S. No.	Name of the Position	From - To
1.	Women cell –Staff in charge	2014 - 2017
2.	NSS Program Officer	2017 – 2018
3.	NSS Coordinator	2018-2022

S. No.	Name of the Position	From - To
4.	President, Fatima College Alumnae Association	09.07.2022 to till date

4. Achievements

S. No.	Name of the Award	Award Received for	Sponsors / Source	Date
1.	Best Paper Award	Paper Presentation	Dst	Feb, 2010
2.	The Best Performance Award 2020-2021	Best Teaching & Research	Fatima College	04.09.2021

5. Membership in Professional / Other Bodies / Committees

S. No.	Name of the Position	Name of the Body	Name of the Institution	Duration
1.	Organizer	Science Club	Yadava College	2007 - 2013
2.	Deputy coordinator	UGC sponsored M.Sc., Nanoscicence program	Yadava College	2012 - 2013

6. Areas of Specialization

- **Nanoscience: Energy storage: Supercapacitors,**
- **Solar Cell Applications**
- **Environmental Remediation**

7. Fellowship Received

- DST-Women Scientist Fellow – (AUGUST 2010 – June 2013)

8. Orientation/Refresher/Training Programmes/FDP Attended

S. No.	Programme	Theme	Organized by	Date
1.	INUP Hands-on training workshop	Nanofabrication Technologies	IIT Bombay	Jan. 19 - 23, 2015
2.	Orientation Program	-	Madurai Kamaraj university	Aug. 2015
3.	INUP Workshop	Photovoltaic Applications	IISc Bangalore	Apr. 2018
4.	Refresher Program	Physics	Pondicherry University	Aug. 04 - 17, 2021
5.	Refresher Course	PHYSICS: Recent Advances in the Physics of Materials	Madurai Kamaraj University	Oct. 07 - 20, 2022
6.	International online faculty	Current Scenario in Advanced Materials Research and	Rajapalayam Raju's College,	Nov. 14 - 18,

S. No.	Programme	Theme	Organized by	Date
	development programme	Nanotechnology	Rajapalayam	2022
7.	Refresher Course	Refresher Course in Physics	UGC MMTTC, University of Allahabad	Feb. 09 - 22, 2024

9. Paper Presented on National/International Seminars, Workshops, Conferences & Symposiums

S. No.	Programme & Theme	Organized by	Date	Title of the Paper
1.	International Conference on Nanoscience and Nanotechnology (ICNN 2011)	Coimbatore Institute of Technology, Coimbatore,	July 06 - 08, 2011	Localised Vibration Modes in Nano Zinc Sulphide and Cadmium Sulphide
2.	International Symposium on Semiconductor Materials and Devices	The M.S. University, Baroda,	Jan. 28 - 30, 2011	On the Possibility of Enhanced Efficiency in (Zn,Cd)S in Dye Sensitized Solar Cell
3.	55th DAE Solid State Physics Symposium	Manipal University, Manipal	Dec. 26 - 30, 2010	Investigations on Nano ZnS Based Dye Sensitized Solar Cell
4.	National Seminar on Recent Advances in Inorganic and Nano Chemistry	Madurai Kamaraj University, Madurai,	Mar 29 & 30, 2010	Investigations on Nano CdS Based Dye Sensitized Solar Cell,
5.	56th DAE Solid State Physics Symposium	SRM University, Chennai,	Dec. 26 - 30, 2011	Cadmium Diffusion in Nano Cadmium Sulphide
6.	International conference on Nano electronic Science and Technology (ICNEST)	Department of Physics, Sri Vasavi College, Erode	Feb. 14 & 15, 2014	Metal Sulphide Nanomaterials for Sprintronics Applications
7.	National Conference on 'Advanced Functional Materials (NCAFM 2015)	Department of Physics, SRM University, Chennai	May 08 & 09, 2015	SPIONs as Photoacoustic Contrast Agents
8.	National Seminar on "Recent Trends in Applied Chemistry (NCRTAC 2016)"	Department of Chemistry, Eswari Engineering College, Chennai	May 04, 2016	Scope of Exogenous Photoacoustic Contrast Agents
9.	Exploring Nanostructures for Enhanced Power Conversion Efficiency of Solar Cells (ICENES'19)	The Gandhigram Rural Institute	Jan 7-8, 2019	Hybrid Plasmonic solar Cells with Ag, Au Decorate TiO2 Photoanodes
10.	Recent Advancements in Material Science and Its Applications	Mannar Thirumalai Naicker College, Madurai	11.01.2023	Perovskites of Next Generation Memory Devices

10. Participated on National/International Seminars, Workshops, Conferences & Symposiums

S. No.	Programme & Theme	Organized by	Date
1.	Workshop on Recent Trends in Astrophysics	School of Physics, Madurai Kamaraj University, Madurai	Jan. 28 & 29, 2010
2.	National workshop and conference on Monte Carlo Simulation	School of Physics, Madurai Kamaraj University, Madurai	Aug. 09 -13, 2010

S. No.	Programme & Theme	Organized by	Date
3.	International conference and workshop on new materials and devices for photovoltaic applications (ICWNMDP-2011)	School of Chemistry, Madurai Kamaraj University, Madurai	Feb. 10 -12, 2011
4.	Indo-Norwegian satellite meeting on advances in solar cell materials and technologies	School of Chemistry, Madurai Kamaraj University, Madurai	Dec. 17, 2011
5.	Recent trends in advanced materials (SRAM-2012),	School of Physics, Madurai Kamaraj University, Madurai	Mar. 08 & 09, 2012
6.	National Symposium on "Nanoscience and Technology'	Centre for Nanoscience and Engineering, IISc Bangalore	June 29 & 30, 2016
7.	International Lecture Workshop on 'Advanced Materials Engineering'	Thiagarajar College of Engineering, Madurai	Sep. 26, 2016
8.	All India Association for Christian Higher Education (AIACHE) Golden Jubilee Grand Finale Celebrations	The American College, Madurai	Oct. 07 - 11, 2016
9.	An effective Research Paper Writing Skills	Bhagwan College of commerce and Management studies	Apr. 13 - 16, 2020
10.	Basic Principles of Spectroscopy	AVS College of Arts and Science	Apr. 17 - 19, 2020
11.	COVID 19 Break the Chain	FAtima College, IQAC	Apr. 19, 2020
12.	Indian Summer School on Crystal Growth	SSN Research Centre, SSN Institutions, Chennai	May 14 - 23, 2020
13.	Resetting times in Upsetting times	Fatima College, IQAC	June 22, 2020
14.	Celebrating Womenhood in Challenging Times	Fatima College, IQAC	June 26, 2020
15.	International Webinar on "Advanced Materials for Energy Storage Applications"	Fatima College	July 13 - 15, 2020
16.	5-Day International Conference on Global Service Learning	Fatima College	July 29 - Aug. 02, 2020
17.	How Nanoscience and Technology Inspired from Nature and Transforming the World	Cauvery College For Women	May 03, 2020
18.	Recent trends in green energy harvesting	JP College of arts and science	Apr. 24, 2021
19.	indo-norweign international online conference on functional materials for energy and environment and biomedical applications	FARAN 2022	02.04.2022 to 04.02.2022
20	5 Day National Level Lecture Series on Energy Conversion and Storage	VIT-AP	July 27 & 28, 2023
21.	Python for Beginners	National Institute of Electronics and Information Technology, Calicut	Oct. 10 - 14, 2023
22.	Online FDP on "Recent advancement in smart materials for sustainable energy applications"	SathyaBama Institute of science and technology	Nov. 20 - 25, 2023
23.	One Week National Level Online FDP on "Technology Integration in Learning and Teaching"	Seethalakshmi Ramaswami College, Tiruchirapalli	Aug. 19 - 24, 2024

11. Articles Published in Journals/Proceedings/Magazines/Books

S. No.	Journal/Proceeding/ Magazine/Book Name	Title of the Article	Month/ Year	Vol. No.	Issue No.	Page No.	ISSN	Publisher
1.	Defect and Diffusion Forum	Self-Diffusion in nano Zinc sulphide,	2011	319-320	-	167-180	1012-0386	Trans Tech Publications,

S. No.	Journal/Proceeding/ Magazine/Book Name	Title of the Article	Month/ Year	Vol. No.	Issue No.	Page No.	ISSN	Publisher
								Switzerland
2.	J. Nano- Electron. Phys.	Synthesis and Characterization of CdxZn1-x S Nanocomposites	2011	3	1	111-116	2077-6772	Sumy State University (Sumy, Ukraine)
3.	Defect and Diffusion Forum	Localized Vibrational Mode in Manganese-Doped Zinc Sulphide and Cadmium Sulphide Nanoparticles	2011	318	-	11-21	1012-0386	Trans Tech Publications, Switzerland
4.	J. Nano- Electron. Phys	On the possibility of Enhanced Efficiency in (Zn, Cd)S Dye Sensitized Solar Cell	2011	3	1	823-826	2077-6772	Sumy State University (Sumy, Ukraine)
5.	Journal of Alloys and Compounds	Room Temperature Ferromagnetism in MnxZn1-xS Nanoparticles	2011	541	-	222-224	0925-8388	Elsevier Publications
6.	AIP Conf. Proc.	Investigations on Zinc Sulphide Nanoparticles in Dye Sensitized Solar Cell	2011	1349	-	411-412	1551-7616	American Institute of Physics publishers
7.	AIP Conf. Proc.	Cadmium Diffusion in Nano Cadmium Sulphide	2012	1447	-	345-346	1551-7616	American Institute of Physics publishers
8.	Journal of nanoscience	Charge Transport In 1-D Nanostructured Cds Dye Sensitized Solar Cell	2013	-	-	-	2314-6931	Hindawi Publications
9.	Environ Science and Pollution Research	Biosynthesized Silver Nanoparticles Using Floral Extract F Chrysanthemum Indicum.L. – Potential for Malaria Vector Control	2015	22	-	9759-65	0944-1344	Springer-Verlag Berlin Heidelberg
10.	International Journal of Scientific Research and Modern Education (IJSRME)	Synthesis and Characterisations of Cobalt ferrite nanoparticles	2016	-	-	126-129	online 2455-5630	IJSRME Publications
11.	Ionics	Development of Biopolymer Electrolyte Membrane Using Gellan Gum Polymer	2021	27	26	Electronic ISSN – 1572-8935 Print ISSN – 1022-	-	Springer

S. No.	Journal/Proceeding/ Magazine/Book Name	Title of the Article	Month/ Year	Vol. No.	Issue No.	Page No.	ISSN	Publisher
		Incorporated with NH4SCN for Electrochemical Applications				9760		
12.	Journal of Advanced Dielectrics	Effect of doping in multiferroic BFO: A Review	2021	11	3	2010135X-20101368	-	World Scientific publications (Scopous indexed)
13.	Journal of Polymer Research	Fabrication Of Rechargeable Proton Battery and PEM Fuel Cell Using Biopolymer Gellan Gum Incorporated with NH4HCO2 Solid Electrolyte	2022	29	8	0947-8396 (print); 1432-0630 (web)	-	Springer
14.	APPLIED PHYSICS A	Investigation on Y2NiMnO6 Nanostructures for Energy StorageApplications	2022	49	12	0947-8396 (print); 1432-0630 (web)	-	Springer
15.	Journal of material science and Engineering: B	Effect of La and Se in tailoring the energy storage properties of BFO nanostructures	2023	290	3	0921-5107	-	Elsevier
16.	Ceramics International	Dielectric, electrochemical and magnetic properties of the hydrothermally synthesized double perovskite La2NiMnO6 for energy storage applications	2023	-	-	-	-	Elsevier
17.	Materials Today Communications	Ion transport Properties and Performance of Gellan Gum Based Composite Polymer Membrane Electrolytes in Proton Battery and PEMFC Applicatioins	2024	41	110801	-	-	Elsevier

12. Major Assignments (Chief Guest / Keynote / Judge etc.)

S. No.	Major Assignment	Institution	Theme/Title	Date
1.	Resource Person	Science And Technology	Amazing World of Nanotechnology	July 03, 2015

		Organized by Yadava College, Madurai		
2.	Guest Lecture	Sethamarai Arts And Science College, Madurai	Amazing World of Physics	Sep. 19, 2016
3.	Guest Lecture	Ambiga Arts And Science College, Madurai	Nano: The Next Challenge	Sep. 21, .2016
4.	Guest Lecture	Ambiga Arts And Science College, Madurai	Exciting World of Nano	Dec. 26, 2017
5.	Guest Lecture	The Research Centre of Physics, Mannar Thirumalai Naickar College, Madurai	Photoacoustic Imaging-A tool to detect Cancer	July 23, 2018
6.	Guest Lecture	Lakshmi Matriculation Hr. Sec. School, Karuppayurani, Madurai	Independence Day Speech	Aug. 15, 2020
7.	Guest Lecture	Lakshmi Matriculation Hr. Sec. School, Karuppayurani, Madurai	Igniting Young Minds for the Inspiring Leadership	Aug. 22, 2020
8.	Guest Speaker	Commemoration of Missile Man Day & World Students Day at Sri Meenakshi Govt. Arts and Science College, Madurai	Aspiring Youth for Inspiring Leadership	Oct. 15, 2020
9.	Resource Person	Wseinar on National Educational Policy	Feature as of NEP 2020	Sep. 22, 2020
10.	Subject Expert	St. Joseph's college for women, Alappuzha in Association with Kerala Sasthra Sahithya Parishath	National Advisory Committee member, RICERA 2020- National Online Research Project Presentation Competition	Aug. 18 - 24, 2020
11.	Resource Person	Vivekananda College, Thiruvedegam, Madurai	Workshop on House Hold Appliances (Under dbt-star scheme) "Can Run Solar Power Run Domestic Appliances"	16.03.2022
12.	Guest Talk	New Horizon College of Engineering	"Surface Characterisation Techniques for Nano Materials	Feb. 12, 2022
13.	Resource Person	FDP on Functional Materials	Exploring Fabrication Techniques and Applications of Functional Materials	June 26, 2022

13. Projects Undertaken

S. No.	Title of Project	Position	Sponsored By	Date & Year	Sanctioned Amount
1.	Experimental and Theoretical Investigations on II-VI Nanosystems	Principal Investigator	DST	Aug. 2010 to Aug.2013 (Completed)	10,60,000/-
2.	TNSCST-Students Project Scheme	Supervisor	TNSCST	April 2014	7500/-
3.	TNSCST-Students Project Scheme	Supervisor	TNSCST	April 2022	7500/-
4.	DST-CURIE Project for PG Colleges	Nodal Officer	DST	April 2022-March 2026	69,00,000/-

14. National/International Seminar, Workshop, Conference & Symposium Organised

S. No.	Conference/Symposium/Workshop	National/International	Date	Convener/Coordinator
1.	Webinar Lecture Series on Reanimating	National	July 27 - 31,	Convener

S. No.	Conference/Symposium/Workshop	National/International	Date	Convener/Coordinator
	Skills to New Normal		2020	
2.	Webinar on AstroPhysics	International	Sep. 30, 2021	Co-Convener
3.	Webinar on Material Science	International	Oct. 01, 2021	Co-Convener