

Name of the Faculty member : Dr S Mangala Nagasundari
 Designation : Assistant Professor
 Residential Address : 980-B, Balaji Square, K.T.C.Nagar, Maharaja Nagar Post, Tirunelveli -627011.
 Contact Numbers : 9489837305
 Gender : Female
 Community : BC
 PAN Number : xxxxxxx26M
 Aadhaar Number : xxxx xxxx 4303
 Vidwan ID : 369461
 Date of Birth : 16.01.1979
 Date of Appointment : 18.07.2022
 Blood Group : B Positive

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.	Chemistry	1999	Rani Anna Government College for Women, Tirunelveli	Manonmaniam Sundaranar University, Tirunelveli	78.7	I
PG	M.Sc.	Chemistry	2001	Sri Kumaragurubara Swamigal Arts & Science College, Srivaikundam	Manonmaniam Sundaranar University, Tirunelveli	75.7	I
PG	M.Phil	Chemistry	2008	Bharathidasan University, Thirichirappalli	Bharathidasan University, Thirichirappalli	72.2	I

Education	B.Ed.	Physical Science	2008	SCAD College of Education, Cheranmahadevi	Manonmaniam Sundaranar University, Tirunelveli	70.6	I
Education	M.Ed.	Physical Science	2011	Excell College of Education, Komarapalayam	Tamil Nadu Teacher Education University, Chennai	62.9	I
SET	SET	Education	2016	Mother Therasa University Kodaikanal	Mother Therasa University Kodaikanal	-	-
Research	Ph.D.	Chemistry	2022	Manonmaniam Sundaranar University, Tirunelveli	Manonmaniam Sundaranar University, Tirunelveli	-	-

Teaching Experience:

Name of the College	LevelUG/PG/etc	Designation	Joining Date	Relieving Date	Experience		
					Years	Months	Days
Annai Hajira Women's College, Melapalayam.	UG	Assistant Professor	18.07.2022	(31.12.2025)	3	5	13

Awards and Honors:

Sl.No	Name of the Award	Type of Award	Awarding Agency/ University/ Government	Host Institute Name	Year
1	Elite + Silver Medal (85%) in the NPTEL Online Course "Sustainable Happiness"	National	SWAYAM – NPTEL Online certification Course by IITs	Funded by the MoE, Govt. of India (Skill India)	July to September 2025 (8 Weeks Course)
2	Best Oral Presentation Award	International	Department of Biotechnology Manonmaniam Sundaranar University Tirunelveli	Manonmaniam Sundaranar University Tirunelveli	9-10 th March 2023
3	Best Poster Presentation Award	International	Department of Chemistry, Periyar University, Salem	Periyar University, Salem	23-25 th August 2018
4	Gold Medal/University First in M.Sc, Chemistry	University	Manonmaniam Sundaranar University Tirunelveli	Sri Kumaragurubara Swamigal Arts & Science College, Srivaikundam	June 2002

Articles Published in Journals:

Cumulative Impact Factor: 20.858

h-index – 6

i10-index - 4

Sl. No.	Title of the Article	Name of the Journal	Journal Type	Paper Details Volume (Year) Page No.	Impact factor (As on May 2025)	Whether Peer reviewed? SCIE/SCI/ Scopus/ UGC Listed
1	Plant (<i>Pedaliium murex</i> L.) mucilage green synthesized and capped silver nanoparticles: in vitro biological and solar-driven photocatalytic dye degradation activity	Phosphorus, Sulfur, and Silicon and the Related Elements (Print ISSN: 1042-6507 Online ISSN: 1563-5325)	International	197:3, 254-262	1.6	Yes-SCIE indexed
2	Current trends of Silver doped Zinc oxide nanowires photocatalytic degradation for energy and environmental application	Surfaces and Interfaces (ISSN 2468-0230)	International	23, 100931	6.3	Yes-SCIE indexed
3	Synthesis, characterization and photocatalytic activity of silver nanoparticles stabilised by <i>Punica granatum</i> seeds extract,	Materials Technology (Print ISSN: 1066-7857 Online ISSN: 1753-5557)	International	36:11, 684-693	3.7	Yes-SCIE indexed
4	Photocatalytic reduction and antioxidant potential of green synthesized silver nanoparticles from <i>Catharanthus roseus</i> flower extract	Inorganic and Nano-Metal Chemistry (Print ISSN: 2470-1556 Online ISSN: 2470-1564)	International	51:4, 579-589	1.6	Yes-SCIE indexed
5	Green synthesis of silver nanoparticles using <i>Polyalthia longifolia</i> stem bark extract and its catalytic reduction of 4-Nitrophenol.	Asian Journal of Chemistry (Print ISSN: 0970-7077 Online ISSN: 0975-427X)	International	31(11), 2439-2442	0.158	Yes-SCIE indexed

6	Diet-induced animal model anti-obesity, phytochemical profiling, and in silico analysis of culinary plant gokhru (<i>Pedalium murex</i> L.) mucilage	Journal of Biomolecular Structure and Dynamics Print ISSN: 0739-1102 Online ISSN: 1538-0254	International	1-16	4.4	Yes-SCIE indexed
7	Suzuki-Miyaura cross-coupling reactions and antimicrobial activity of synthesized Nickel Oxide nanoparticles	Journal of Molecular structure 1348 (2025) 143481	International	1348(2025) 143481	4.7	Yes-SCIE indexed

Books Published/ Articles Published in Books/ Chapters written in Edited Books:

Sl. No.	Title of the Article	Name of the Book	Name and Address of the Publisher	Date of Publication	ISBN No.
1	Chapter 16 – Chitosan-based nanosystems: Exploitation in the agri-food sector	Multifunctional Hybrid Nanomaterials for Sustainable Agri-Food	Elsevier	2020	9780128213544
2	Chapter 12 – Zinc nanomaterial applications in agroecosystems	Nanobiotechnology for Plant Protection	Elsevier	2021	9780128228364
3	Chapter 20 – Potential utilization of zinc nanoparticles for wastewater	Aquananotechnology,	Elsevier	2021	9780128211410
4	Navathiruppathi sri Aasanathiruppathikal page no.272-276	Nellaiseemai Aaivukovai	Virucham Publication Vikramasingapuram, Tirunelveli	2025	9789334402162

Papers published in the Conference Proceedings:

Sl. No.	Theme	Title of the Paper	Organized by	Type	Date
1.	International Conference on Innovation in Science and Technology for Sustainable development	Photo catalytic degradation of Methylene blue dye using <i>Pedalium murex</i> L mucilage mediated Egg shaped ZnO NPS	Department of Science Maharisi school of science and humanities, Maharisi University of Information and Technology, Lucknow.	International	21-23 rd November 2023

2	International Conference on Emerging trends in Biotechnology and Bioeconomy (ICEBB-2023)	Single pot synthesis of <i>Pedaliium murex</i> mucilage extract mediated Egg shaped ZnO NPs	Department of Biotechnology Manonmaniam Sundaranar University Tirunelveli	International	9-10 th March 2023
3	International Conference on Nanoscience and Nanotechnology (ICONN2021)	Antibacterial activity of spherical AgNPs capped by mucilage extract of <i>Pedaliium murex</i>	SRM Institute of Science and Technology, Kathankulathur	International	1-3 February 2021
4	International Conference on Frontiers in Chemical and Material Sciences	Multiphase functionality of <i>Pedaliium murex</i> mucilage	Department of Chemistry, Gandhigram Rural Institute, Dindigul	International	24-25 th February, 2020
5	Second International Conference on Advanced Materials Chemistry at the Interfaces of Energy, Environment and Medicine (AMCI-2020)	Azo Dye biodegradative activity of Zinc Oxide nanoparticles obtained from <i>Pedaliium murex</i> mucilage green route	Department of Chemistry, Manonmaniam Sundaranar University	International	30-31 st January, 2020
6	International Conference on Research Initiatives in Chemistry for Sustainable Development	<i>In vitro</i> antioxidant activity of <i>Xanthium strumarium</i> root extract	Department of Chemistry, Gandhigram Rural Institute,	International	16-17 th March 2019.
7	International Conference on Recent Trends in Chemistry and Bioscience,	<i>In vitro</i> ferric reducing power activity of <i>Pedaliium murex</i> extract synthesized zinc oxide nanoparticles	Department of Inorganic Chemistry, Madurai Kamaraj University, Madurai	International	16-17 th May 2019
8	International Conference on Nanomedicine(ICON-2019)	<i>In vitro</i> antioxidant activity of green synthesized zinc oxide nanoparticles using <i>Pedaliium murex</i> L. mucilage-	Department of Chemistry and Department of Biotechnology, Madurai Kamaraj University, Madurai	International	25-26 th February 2019
9	National Seminar on Innovations in Education for Sustainable Development (NSIESD 2019)	The Role of Technology in Teaching-Learning Process: A Review for exploring students' Academic Performances	Department of Education, Gandhi gram Rural Institute, Gandhigram	National	17-18 th January 2019

10	. International Conference on Recent Trends in Science and Technology	<i>In vitro</i> antioxidant potential ferric reducing power assay of <i>Pedaliium murex</i> leaf extract	Department of Chemistry, Periyar University, Salem	International	23-25 th August 2018
11	Recent advances in materials for energy and environmental remediation	Urinary tract infection controlling herb <i>Pedaliium murex</i> phytochemicals and antibacterial activity	Department of Chemistry, V.H.N.S.N. College, Virudhunager	National	16-17 th June, 2018
12	International conference on Recent trends in synthetic materials and material Chemistry (RTSMC-2018)	Green synthesis, characterization and antioxidant activity of silver nanoparticles using <i>Casuarina equisetifolia</i> leaves Extract	Department of Chemistry, Annamalai University, Chidambaram	International	2-3 rd February 2018.
13	International conference on Advanced functional materials for energy, environment, and biomedical application (AFMEEB-2017)	Biosynthesis of silver nanoparticles using <i>Celastrus paniculatus</i> flower extract potential and its antioxidant	Department of Chemistry, Madurai Kamaraj University, Madurai	International	11-12 th December 2017
14	International conference on wellbeing	Relationship between Intellectual curiosity and Academic performance-A Review for exploring Academic Achievements	Dept. of Education, Manonmaniam Sundaranar University, Tirunelveli	International	6-7 th November 2017

Invited Lectures/ Resource Person:

Sl. No.	Title	Type of the Programme	Position Held	Place of the Programme	Level - State/ National/ International	Date
1	Cancer-Causes, Consequences, Curtailment and Counteractions	Programme for the Students	Resource Person	Annai Hajira Women's College, Tirunelveli	College	6 th February 2023
2	Hyperconsciousness for pollution prevention & Hike up to control.	Programme for the Students	Resource Person	Annai Hajira Women's College, Tirunelveli	College	11 th December 2023

3	Presented a webinar on “Navathiruppathiyum Nellaiyum” on the Webinar Series-6 “Nellai Semai” organized by Department of Tamil, Annai Hajira Women’s College in Association with Virutcham YouTube Channel	YouTube Webinar Series	Resource Person	Online	National	12.02.2025
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Seminars/Conferences/Workshop and Other Programmes Organized:

Sl. No.	Title	Type of the Programme	Position Held	Place of the Programme	State/ National/ International	Date
1.	“The Importance of IPR: Protecting Innovations and Creativity” for LAVOISE 2025	Seminar	Organizing Committee member in collaboration IIC of Annai Hajira Women’s College	Annai Hajira Women’s College, Tirunelveli	College	July 22, 2025
2.	Bridging Academia and Industry: A Guide to Internships in Petrochemicals	Virtual Workshop	Organising Committee member in collaboration with Galileovasan Offshore & Research and Development Pvt. Ltd., Nagapattinam	Annai Hajira Women’s College, Tirunelveli	College	May 31, 2025
3.	Water Analysis and Petroleum Testing Process	One day Workshop	Organizing Committee Member	Annai Hajira Women’s College, Tirunelveli	College	17 th April 2024
4.	Mahendra Pride Certificate Course	Certificate Course	Coordinator	Annai Hajira Women’s College, Tirunelveli	College	4-11 th September 2023
5.	Challenges of Women Entrepreneurs	Power seminar	Coordinator	Annai Hajira Women’s College, Tirunelveli	College	7 th September 2023
6.	New Education Policy-Bliss / Perfect pain	Debate	Judge	Annai Hajira Women’s College, Tirunelveli	College	17 th July 2023

7.	Petrochemical Analysis and Paint Manufacturing Technology	Industrial Training Programme (Workshop) for the UG&PG Students	Organizing Committee Member	Annai Hajira Women's College, Tirunelveli	District	28 th March 2023
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Participation in Conference/ Seminar/ Workshop/ Symposium/ FDP:

Sl. No.	Theme	Place	Type of the Programme	Level	Date
1.	NEP 2020 Orientation & Sensitization Programme in online mode under Malaviya Mission Teacher Training Programme (MMTTP) of Ministry of Education, Government of India	Malaviya Mission Teacher Training Centre, Shri Ram College of Commerce (MMTTC, SRCC)	FDP	National	21-29 th April 2025
2.	Chemical safety in battery management	Manonmaniam Sundaranar University, Tirunelveli	FDP	State	18-24 th December 2024
3.	Good manufacturing practices-quality assurance	Manonmaniam Sundaranar University, Tirunelveli	FDP	State	18-22 nd July 2024
4.	3 Day Faculty Development Program on Team Building and Managing conducted by ICT Academy	ICT Academy, Annai Hajira Women's College	FDP	District	05-7 th Aug 2024
5.	Online workshop on general paper on Teaching and Research Aptitude (UGC NET Paper)	Online mode	Workshop	National	18-22 nd May 2024
6.	Workshop on Skill development of College Teachers	Sadakathullah Appa College, Palayamkottai	Workshop	District	1-2 nd March 2024
7.	Virtual Faculty Development Program on Recent advances in chemical Science	K.S.R college of Arts and Science for women	FDP	National	27 th November - 1 st Decembar 2023

8.	Faculty Development Program on Emotional Intelligence	ICT Academy at PSN College of Engineering and Technology	FDP	District	5-7 th January 2023
9.	PANNIRU THIRUMURAIGAL - AN ANALYSIS	Department of Language-Tamil, Annai Hajira Women's College, Tirunelveli in association with Virutcham Youtube Channel-Virtual	Webinar/You tube series	National	2 nd February 2023
10.	Faculty Development Program (Online) on Nanomaterials for Sustainable Future	Physics Division, Department of Basic Science and Humanities, GMR Institute of Technology, Rajam	FDP	National	12th - 16th December, 2022
11.	Faculty Development Programme on current scenario in Advanced Materials and Nanotechnology	Department of Physics and IQAC Rajapalayam Raju's College	FDP	National	14-18 th November 2022
12.	IP Awareness and Training Programme under National Intellectual Property Awareness Mission	Intellectual Property Office India	Awareness and Training Program	National	28 th October 2022
13.	Faculty Development Programme on Innovation and Entrepreneurship Development	Manonmaniam Sundaranar University, Tirunelveli	FDP	National	13-15 th September 2022

Professional Affiliations / Various Positions Held:

Sl. No.	College/University/Institution	Position	Department	Duration
1	Annai Hajira Women's College, Melapalayam	Member	Moral cell	June 2024- till date
2	Annai Hajira Women's College, Melapalayam	Member	Career Guidance Training and Placement cell	June 2024- till date
3	Annai Hajira Women's College, Melapalayam	Member	Literacy Cell	January 2023 – April 2024
4	Annai Hajira Women's College, Melapalayam	Member	Student's Counseling Cell	January 2023 – April 2024

Membership in Other Academic Agencies/Bodies:

Sl. No.	Name of the Agency	Board	Period
1.	Sarah Tucker College (Autonomous)	Paper Valuation, Evaluated Answer sheets of Nanoscience UG Courses	Since May 2025
2.	Sri Kumaragurubara Swamigal Arts & Science College, Srivaikundam	External Examiner, Conducted Naan Mudhalvan [Chemical safety in Battery management] Examinations of Manonmaniam Sundaranar University	24.04.2025
3.	Rani Anna Government College for Women, Tirunelveli	External Examiner, Conducted Naan Mudhalvan [Chemical safety in Battery management] Examinations of Manonmaniam Sundaranar University	22.04.2025
4.	Einstein Arts and Science College, Seethaparpanallur	External Examiner, Conducted Naan Mudhalvan [Good manufacturing practices-Quality Assurance] Examinations of Manonmaniam Sundaranar University	10.10.2024
5.	Manonmaniam Sundaranar University Constituent College, Kovindaperi	External Examiner, Conducted Naan Mudhalvan [Good manufacturing practices-Quality Assurance] Examinations of Manonmaniam Sundaranar University	07.10.2024