

FACULTY PROFILE

Name of the Staff : **Dr. ILAYARAJA M**
Official Address : Assistant Professor
ARUMUGAM PILLAI SEETHAI AMMAL COLLEGE,
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Personal Details:

Age : 39
Date of Birth : 10/03/1985
Sex & Marital Status : Male & Married
Citizenship : INDIAN
Department : CHEMISTRY
Date of Joining : 16/03/2016

Qualification:

Degree	Programme and Specialization	Class/CGPA	Month & Year of Passing	Institute/University
Ph.D	Environmental Chemistry	--	04/2014	Madurai Kamaraj University
M.Phil	Chemistry	First Class	04/2011	Madurai Kamaraj University
M.Sc	Chemistry	First Class	04/2007	Madurai Kamaraj University
B.Ed	Physical Science	First Class	05/2011	Tamil Nadu Teachers Education University
B.Sc	Chemistry	First Class	04/2005	Bharathidasan University

Professional Experience:

Teaching Experience:

Designation	Institute/University	Period		Nature of Duties
		From	To	
Assistant Professor	Arumugam Pillai Seethai Ammal College	16/03/2016	08/08/2024	Teaching Research
Associate Professor	SBM College of Engineering & Technology	08/12/2014	01/03/2016	Teaching Research

Industry Experience:

Designation	Organization	Period		Nature of Duties
		From	To	
Employee	SANMAR Chemicals Mettur	20/03/2008	20/03/2009	Officer-Production

Other Academic Credentials:

S.No	Title
1	Postgraduate Diploma in Computer Applications.

Course Taught:

S.No	Course Title	U.G. or P.G
1	Chemistry	U.G

H-Index:

Research Gate	Google Scholar	Scopus	Web Of Science
1	6	4	4

Development or Training Activity:**Attended:**

S.No	Title	Period		Venue	Course Type	Type of program
		From	To			
1	UGC-Sponsored 104th Orientation Programme	08/11/2018	05/12/2018	Bharathidasan University	Orientation Programme	Inperson
2	Managing Online classes and Co-creating MOOCS2.0	18/05/2020	03/06/2020	Ramanujan College, University of Delhi	FDP	Online
3	Research Methodology:Tools and Techniques	07/07/2020	20/07/2020	Mizoram University	Refresher Course	Online
4	Chemistry- The Catalyst for Change	14/07/2021	28/07/2021	Ramanujan College, University of Delhi	FDP	Online
5	In-Service Teacher Training Programme in "Physical Sciences"	05/05/2022	06/05/2022	Sri Meenakshi Government Arts College for Women(A), Madurai		In-person
6	Detection of Pollutants in Environment	08/02/2017	10/02/2017	Karpagam University, Coimbatore		Online
7	Research Philosophies and Methods	12/01/2012	12/01/2012	Thiagarajar College , Madurai		In-Person
8	International Regulatory Requirements for Good Manufacturing Practices	17/07/2023	21/07/2023	Alagappa University	FDP	Inperson
9	EV Battery Management	22/01/2024	31/01/2024	Alagappa University	FDP	Inperson

S.No	Title	Period		Venue	Course Type	Type of program
		From	To			
10	Digital Productivity and AI Fluency under the Microsoft Digital Skills Programme	01/07/2024	06/07/2024	Alagappa University	FDP	Virtual

Expert Lecture Delivered/Judge:

S.No	Title	Period		Venue
		From	To	
1	Delivered a lecture on "Waste to Wealth" in the Guide Teachers Training Programme	24/07/2018	26/07/2018	Arumugam Pillai Seethai Ammal College
2	Delivered a lecture in the YOUNG STUDENTS SCIENTIST PROGRAMME (YSSP-2012)	09/05/2012		Thiagarajar College, Madurai
3	Delivered a lecture on "Waste to Wealth" in the Guide Teachers Training Programme	30/07/2019	01/08/2019	Arumugam Pillai Seethai Ammal College
4	Acted as Judge -27th National Children Science Congress District level project	10/11/2019		Thiruppuvanam, Sivagangai
5	Acted as Judge for the Future scientist conducted by VIT	21/10/2019		The American College, Madurai
6	Delivered a lecture on "Design, Development, Modeling and Planning for Sustainable Living"	22/09/2021		Arumugam Pillai Seethai Ammal College(Online Mode)
7	Acted as Judge -29th National Children Science Congress District level project	19/12/2021		Murgappa Metric Higher Secondary School, Kallal, Sivagangai District
8	Delivered a lecture on "Know Your Ecosystem" in the Guide Teachers Training Programme	19/09/2022		Arumugam Pillai Seethai Ammal College
9	Acted as Judge -30th National Children Science Congress District level project demonstration	03/12/2022		Saraswathi Vikash Metric Higher Secondary School, Kalaiyarkovil, Sivagangai District
10	Delivered a lecture on "Know Your Ecosystem" in the Guide Teachers Training Programme	16/08/2023	18/08/2023	Arumugam Pillai Seethai Ammal College
11	Acted as Evaluator -31st National Children Science Congress District level project demonstration	29/10/2023		Maharishi Vidya Manddir Matric Higher Secondary School, Karaikudi, Sivagangai District
12	Acted as Evaluator -31st National Children Science Congress State level project demonstration	25/11/2023	26/11/2023	Nehru Memorial College, Trichy District

Membership in Professional bodies:

S.No	Name of the society	Grade of Membership
1	Tamil Nadu Science Forum, Sivagangai District	Member

S.No	Name of the society	Grade of Membership
2	National Children Science Congress	Academic Coordinator, Sivagangai District

Research Achievements:

National Journal Publications:

S.No	Title of the Paper	Name of the Journal	Vol.No & Page No.	Month & Year	Current Status
1	Synthesis and adsorption properties of chitosan cross linked with phenol-formaldehyde resin for the removal of heavy metal and dye from aqueous solution	Journal of Applied Chemistry	7 & 16-26	03/2014	Published
2	Cosciniumfenestratum as a novel adsorbent for the removal of malachite green dye from aqueous solution	International Journal of Chemical and Pharmaceutical Research	2	10/2013	Published

International Journal Publications:

S.No	Title of the Paper	Name of the Journal	Vol.No & Page No.	Month & Year	Current Status
1	Transition Metal Nanoparticles and their applications in Dye degradation and Pharmaceutical Industry- A review	Journal of Emerging Technologies and Innovative Research	9 & 435-440	01/2022	Published
2	Green synthesis and characterization of Ag and Ag/Fe ₃ O ₄ nanocomposites for antimicrobial effect and rhodamine- B dye degradation	The Journal of the Indian Chemical Society	99&100575	06/2022	Published
3	Detoxication and Theranostic Aspects of Biosynthesised Zinc Oxide Nanoparticles for Drug Delivery	Acta Metallurgica Sinica (English Letters)	34&729-740	08/2021	Published
4	Synthesis, Characterisation and DFT Studies of Stigmasterol Mediated Silver Nanoparticles and their Anticancer Activity	Journal of Inorganic and Organometallic Polymers and Materials	28, pages 702–710	10/2018	Published
5	Synthesis of Leucaena mediated silver nanoparticles: Assessing their photocatalytic degradation of Cr(VI) and in vitro cytotoxicity against DLA cells	Journal of Photochemistry and Photobiology A: Chemistry	346&470-478	09/2017	Published
6	Effect of acidified Feronia Elephantum leaf extract on the corrosion behavior of mild steel	Metallurgical and Materials Transactions B	46B&1448-1460.	03/2015	Published
7	Adsorption of Rhodamine-B and Congo red dye from aqueous solution using activated carbon: kinetics, Isotherms and thermodynamics,	Journal of Environmental science, Toxicology and Food Technology	5 & 79-89	10/2013	Published

S.No	Title of the Paper	Name of the Journal	Vol.No & Page No.	Month & Year	Current Status
8	Bioremoval of triphenylmethane dye malachite green by pseudomonas stanieri: kinetic and equilibrium studies	International Journal of Current Research	5 & 1815-1822	07/2013	Published
9	Green synthesis and characterization of Ag and Ag/Fe ₃ O ₄ nanocomposites for antimicrobial effect and Rhodamine-B dye degradation	Journal of the Indian Chemical Society	99&100575	08/2023	Published
10	As a highly Magnetically Recyclable Pd/Fe ₃ O ₄ Bifunctional Catalyst on Photocatalytic Activity of Nitrophenol degradation Via the Green Route	Inorganic and Organometallic Polymers and Materials	5&10904-02831	03/2023	Published
11	Pyto-constitutions of Cu@Fe ₃ O ₄ nanocube for organic dye degradations using photocatalysis approach	Journal of Biomass Conversion and Biorefinery	23&13399-05120	12/2023	Published
12	Studies on the removal of metal ions using resins blended with mimosa pudicasulphonated carbon	International Journal of Scientific Research.	4 & 10-13	09/2012	Published
13	Polymer grafted a nano-TiO ₂ as an adsorbent for the removal of lead (II) and mercury (II) ions from aqueous solutions: kinetic and equilibrium studies	Environmental Analytical Chemistry	1 & 1-9	02/2014	Published
14	Studies on macro reticular organic resin as low cost ion-exchangers	International Journal of Current Research	6 & 5729-5733		Published
15	preparation and application of β -cyclodextrin polymerized with phenol-formaldehyde as an adsorbent for the removal of Pb(II) and Hg(II) from aqueous media	International Journal of Current Research	7 & 17829- 17838.		Published
16	Convenient synthesis of Micron-sized macro porous polymers with silica on their surfaces and excellent adsorption performance for Pb(II) ion	Environmental& Analytical Toxicology	5 & 1-7	04/2015	Published
17	Spectroscopic analysis of Crystal violet dye removal by SidaRhombifolia: Kinetic, Equilibrium, Thermodynamic studies	World Journal of Pharmacy and Pharmaceutical Sciences	3 & 713-732	07/2014	Published
18	Modeling studies on Adsorption of pb(II) and Hg(II) by using Acalypha Indica	International Journal of Applied Chemistry.	2 &12- 28.	12/2014	Published

National Conference Publications:

S.No	Title of the Paper	Name of the Conference	Organizer	Month & Year
1	Synthesis ofMangifera indica mediated silver nanoparticles:Assessing their photocatalytic degradationof Cr (VI) and in vitro cytotoxicity against DLA cells	National conference on Emerging Trends in Engineering Science	Department of Science & Humanities, Karpagam Academy of Higher Education(Deemed to be University)	05/2022

S.No	Title of the Paper	Name of the Conference	Organizer	Month & Year
2	Activated carbon prepared from Maramanjai (Cosciniunfenestratum) used as a novel adsorbent for removal of Malachite green dye from aqueous solution	National conference on Recent Development in nano materials	Department of Chemistry, Mohamed Sathak Engineering College, Ramanad.	04/2013
3	Removal of Rhodamine-B from their aqueous solutions through adsorption onto activated SidaRhombifolia	National conference on Expanding Frontiers in Chemistry	Department of Chemistry, Arul Anandar College, Karumathur, Madurai	02/2013
4	optimization studies on the removal of congo red dye using cosciniunfenestratum	National conference on New Vistas and Challenges in Chemistry	Department of Chemistry, Sathyabama University, Chennai	01/2013
5	Spectroscopic analysis of Crystal violet dye removal by SidaRhombifolia: Kinetic, Equilibrium, Thermodynamic studies	National conference on Modern Trends in Chemistry-MTC 2012	Department of Chemistry, PSNA College of Engineering and Technology	02/2012

International Conference Publications:

S.No	Title of the Paper	Name of the Conference	Organizer	Month & Year
1	Pyto-Constitutions of Cu@Fe ₃ O ₄ Nano Cube for Malachite Green dye degradations using Photocatalysis Approach	International conference on Frontier Areas in Chemical Technologies-2024	Department of Industrial Chemistry, School of Chemical Sciences, Alagappa University, Karaikudi-03.	03/2024
2	Application of functionalized β -cyclodextrin	International conference on chemistry and materials	Department of Chemistry, Anna University, Tiruchirappalli	11/2014
3	Adsorption of Eosin-Y from aqueous solutions using Nano Composite Resins	International conference on Recent Advances in Textile and Electrochemical Sciences	Department of Chemistry, Alagappa University, Karaikudi-03.	03/2013
4	Adsorption equilibrium, kinetics and thermodynamics of Methylene blue from aqueous solutions using chitosan composite resin	International conference on Biological Inorganic Chemistry- ICBIC-2013	Department of Chemistry, Periyar University	02/2013
5	Production and Evaluation Study of Biodiesel from Jatropa and Algae	Renewable Energy, Environment and Climate Change-Exploring Opportunities for Development	School of Energy, Environment and Natural Resources, Madurai Kamaraj University,	04/2012

Ph.D. Guidance:

S.No	Research Scholar Name	Research Area	Year	Mode of Research
1	K.Saravanan	Chemistry-Photodegradation, Environmental Chemistry	2019	Part Time

Other Contribution work to the Institute/Organization:

S.No	Name	Role	Period		Nature of Duties
			From	To	
1	Youth Red Cross Society	Member	05/16/2016	22/12/2022	Inculcating social responsibilities
2	Red Ribbon Club	Member	05/16/2016	22/12/2022	nculcating social responsibilities