

RESUME



Photo

Name: Dr.S.Mary Jelastin Kala
Designation:Associate Professor in chemistry
Department: Chemistry
Address : St. Xavier's College, Palayamkottai-627002

PERSONAL DETAILS

Date of Birth : 30.06.1970
Qualification : M.Sc, M.Phil, PhD
Designation : Associate professor
Department : Chemistry
Community : BC
Religion : Christian
Nationality : Indian
Mobile : 9486909685
Email ID : kalaclement97@gmail.com

ACADEMIC QUALIFICATIONS

Degree	Specialization	College	University	Year of Passing
Under Graduate	Chemistry	Holy Cross College,	Madurai Kamaraj	1990

		Nagercoil.	University	
Post Graduate	Chemistry	V.O. Chidambaram College ,Tuticorin.	Manonmaniam Sundaranar University	1993
M.Phil.	Chemistry	V.O. Chidambaram College ,Tuticorin.	Manonmaniam Sundaranar University	1995
Ph.D.	Chemistry	V.O. Chidambaram College ,Tuticorin.	Manonmaniam Sundaranar University	2011

ACADEMIC IDENTITY

*VIDWAN ID	347741
*ORCID ID	0000000267456972
*SCOPUS ID	
*RESEARCHER ID/ PUBLONS ID	
GOOGLE SCHOLAR LINK	https://scholar.google.com/citations?user=QNLfwyEAAAJ&hl=en

TEACHING EXPERIENCE

Date of Appointment	23/10/2007
Date of Retirement	30/06/2030
Teaching Experience	UG 14 Years 6 months
	PG
	M.Phil.
Research	Guided M Phil: Guided Ph D:8 Guiding Ph Scholar: 4

COURSES/ CLASSES TAUGHT	NAME OF THE INSTITUTIONS	DURATION		Years
		From	To	
Refresher Course	ASC,Kerala University	30/01/2013	20/02/2013	2013

	Kariyavattom ASC Kerala University, Kariyavattom			
Refresher Course	ASC,Kerala University Kariyavattom ASC Kerala University, Kariyavattom	09/08/2017	29/08/2017	2017

AWARDS RECEIVED

1.	BEST WOMEN SCIENTIST AWARD - NSF/BWSA/2023/06
2.	
3.	
4.	
5.	

ADMINISTRATIVE EXPERIENCE

S. No	DESIGNATION	INSTITUTIONS	YEAR
1.	Assistant professor	Annaivelankanni College, Tholaiyavattom	13 Years
2.	Assistant professor	St.Xavier's college, Palayamkottai	10 years

MEMBERSHIP

S. No	Designation	Particulars
1.	Dean	women students, Anti-Ragging Committee
2.	Director	women's study centre
3.	Presiding officer	sexual harassment cell
4.	Vice Principal	
5.	Member	Parents Association
6.	Discipline Committee member for all students.	
7.	Question paper setter	

ORIENTATION / REFRESHER COURSES / FACULTY DEVELOPMENT

PROGRAMME UNDERGONE (UGC / HRDC / TLC-PMMNMT ONLY)			
S. No	Name of the Training	Name of the Sponsoring Agency	Place and Date
1	Orientation Programme	Madurai Kamarajar University	Madurai, 01-02-2012 to 28-02-12
2			
3			
4			
5			

ORIENTATION / REFRESHER COURSES / FACULTY DEVELOPMENT PROGRAMME UNDERGONE (SXC & Others)			
S. No	Name of the Training	Name of the Sponsoring Agency	Place and Date
1			
2			
3			
4			
5			

DETAILS OF RESEARCH WORK		
Research Stages	Title of the Thesis	University where the work was carried out
M.Phil	A Study on the Ligand Replacement Reactions of Nickel{11} Complexes	Manonmaniam Sundaranar University
Ph.D.	Photochemical Profile and Pharmacological studies on Euginia Singam Pattiyana and Euginia Flaccosa.	Manonmaniam Sundaranar University

AREAS OF RESEARCH
Organic Chemistry
Phytochemistry
Nanochemistry
Photo catalysis

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RESEARCH PROJECTS CARRIED OUT			
S. No	Title of the Project (Minor)	Name of the Funding Agency & Amount	Duration
1.	Development and characterization of "Chitosan based polyester polymer electrolytes doped with Fe ₃ O ₄ nanoparticles" for industrial applications – under UGC		2 Years

PUBLICATIONS				
BOOKS	BOOK CHAPTERS	SCOPUS	WEB OF SCIENCE	UGC LISTED
OTHER INDEXED	AS A RESOURCE PERSON	PAPERS PRESENTED IN NATIONAL AND INTERNATIONAL SEMINARS	WEBINARS, SEMINARS, WORKSHOPS ATTENDED	

PUBLICATIONS: BOOKS ()			
S. No	Title of the Book	Publication	Year
1.	Women in Science and Technology	ISBN: 978-93-84734-48-0	2017

BOOK CHAPTERS ()

S. No	Title of the Paper	Name of the Book	ISSN No., Pg.No

PUBLICATIONS: SCOPUS INDEXED JOURNALS ()WEB OF SCIENCE ()			
S. No	Title of the Paper	Name of the Journal	ISSN No., Volume, Issue, Impact factor & Pg. No
1.	Eco-friendly synthesis of gold nanoparticles using Ruta graveolens Leaf extract and their efficient catalytic reduction of 4-Nitroaniline, Methylene Blue and Antibiotic Nitrofurantoin	Journal of Organometallic Chemistry	Volume 1036, 1 August 2025, 123706 Impact Factor - 2.4
2.	Evaluating the photocatalytic efficiency of polypyrrole-enhanced Bi ₂ WO ₆ /g-C ₃ N ₅ nanocomposites for effective organic pollutant degradation	Next Materials	Volume 8, July 2025, 100557
3.	Green Synthesis of Au-Pt bimetallic nanoparticles using Croton Caudatus Geisel leaf extract and their biological studies	Results in Chemistry	Year, Vol. 13Page. No.101945 Jan 2025 Impact Factor - 4.2
4.	Novel hierarchical nanocomposites of g-C ₃ N ₄ /MXene-Sm ₂ O ₃ for enhanced cefixime degradation under visible light	Journal of Physics and Chemistry of Solids	Year, Vol. 190Page. No112011 July 2024 Impact Factor - 4.9
5.	Mo Doped WO ₃ Nanoparticles as Nanoprimer Agent for Promoting the Seed Germination and their Effects on Bacterial Growth	Journal of Cluster Science	Year, Vol. 34Page. No177-188 Jan 2023

			Impact Factor - 3.6
6.	Enhancing the optical, temperature-dependent electrical and dielectric properties of WO ₃ through Fe doping for optoelectronic applications	Journal of Materials Science: Materials in Electronics	Year, Vol. 34Page. No761 March 2023 Impact Factor - 2.8
7.	Structural, optical, and magnetic properties of pristine and Cr doped WO ₃ nanoparticles	Inorganic and Nano-Metal Chemistry	Year, Vol. 52Page. No951-960- July 2022 Impact Factor - 1.7
8.	Colorimetric determination of cysteine and copper based on the peroxidase-like activity of Prussian blue nanocubes	RSC advances	Volume 11 .page- 37162-37170 Nov-2021 Impact Factor - 4.6
9.	Enhancing the visible light induced photocatalytic properties of WO ₃ nanoparticles by doping with vanadium	Journal of Physics and Chemistry of Solids	Volume 157, October 2021, 110169 Impact Factor - 4.9
10.	Green synthesis of gold nanoparticles using Croton Caudatus Geisel leaf extract and their biological studies	Materials Letters	Volume 236, 1 February 2019, Pages 19-22 Impact Factor - 2.7
11.	Green synthesis derived Pt-nanoparticles using Xanthium strumarium leaf extract and their biological studies	Journal of Environmental Chemical Engineering	Volume 7, Issue 3, June 2019, 103146 Impact Factor - 7.2
12.	Antibacterial Studies of Synthesized Doped Zinc Oxide	International Journal of Recent Research Aspects	Year, Vol. Page. No -

	Nanoparticles by Using <i>Triumfetta rotundifolia</i> Plant Extract		April 2018, pp. 530-534 Impact Factor - 1.235
13.	Green synthesis, characterisation and biological activity of Platinum Nanoparticle using <i>Croton Caudatus</i> Geisel leaf extract	International Journal of Recent Research Aspects	Year, Vol. Page. No - April 2018, pp. 608-612 Impact Factor - 1.235
14.	Synthesis of Gold Nano Particles Using Palmyra Sprout Root: An Eco Friendly and Green Approach	International Journal of Recent Research Aspects	Year, Vol. Page. No - April 2018, pp. 287-289 Impact Factor - 1.235
15.	Plant Extract Mediated Synthesis and Characterization of Copper nanoparticles and their Pharmacological Activities,	IJRSET,	Year, Vol. Page. No - 6(7), 13455-13465, 2017 Impact Factor - 6.209
16.	Antiinflammatory Activity of Whole Plant of <i>Catharanthuspusillus</i>	International Journal of Toxicological and Pharmacological Research	Year, Vol. Page. No - 2016; 8(3); 194-196
17.	Evaluation of total phenolics, flavonoid contents and in-vitro antioxidant properties of <i>catharanthuspusillus</i> (apocynaceae)	International Journal of Pharmaceutical Sciences and Research	Year, Vol. Page. No - 7(7): 3021-3027, 2016 Impact Factor - 2.60
18.	Isolation, Purification and Characterization of (R)Petrinine from <i>Catharanthuspusillus</i> (Murr.) G.Don(Apocynaceae)	International Journal of Science and Research (IJSR)	Year, Vol. Page. No - (2015) Volume 5 Issue 7, July 2016 Impact Factor - 6.391
19.	Green synthesis and characterization of silver nanoparticles using	Journal of Natural Product and Plant Resources	Year, Vol. Page. No - 4(8): 131-137, 2016

	TriumfettaRotundifolia plant extract and its antibacterial activities		Impact Factor - 4.172
20.	Spectroscopic, microbial and DNA binding affinities of some copper metalcomplexes using 1,10-phenanthroline as a co-ligand	World Journal of Pharmaceutical Sciences	Year, Vol. Page. No - 4(8): 131-137, 2016 Impact Factor - 0.453
21.	Spectroscopic, microbial and DNA binding affinities of some copper metalcomplexes using 1,10-phenanthroline as a co-ligand	Scholars Research Library, Der Pharmacia Lettre,	Year, Vol. Page. No - 2016, 8 (1):310-319
22.	Ecofriendly synthesis Of Silver Nanoparticles Using ethno medicinal plant leaf extract (JasminumAuriculatum) and their Antibacterialproperties	International Letters of Chemistry, Physics and Astronomy	Year, Vol. Page. No - 58 (2015) 113-121
23.	Biosynthesis of Silver Nanoparticles Using TriumfettaRhomboida Leaf Extract and the anti-bacterial efficacy	International Journal of Advanced Chemical Science and Applications	Year, Vol. Page. No - 3(1):17-20,2015 Impact Factor - 0.45
24.	Green Synthesis of Silver Nanoparticles Using CressaCretica Leaf Extract and its Antibacterial Efficacy	International Journal of Advanced Chemical Science and Applications	Year, Vol. Page. No - 3(1):65-71,2015 Impact Factor - 0.45
25.	GC-MS analysis of ethanol extract of stem of Nothapodytesnimmoniana (Graham) Mabb	World Journal of Pharmaceutical Sciences	Year, Vol. Page. No - 2015; 3(6): 1145-1150 Impact Factor - 0.453
26.	Study on Heavy Metal Distribution in the Coastal Environments along the Foremost Places of South-East Coast of India	http://www.ijirset.com/volume-4-issue-3.html .	Year, Vol. Page. No - SJIF 2014: 5.442.ISSN (Online): 2319-8753. Impact Factor - 6.209
27.	Study on Hydrographic properties in the coastal waters along South East Coast of India.	http://www.ajer.org/v4(6).html .	Year, Vol. Page. No - ISSN (online): 2320-0847.
28.	Monthly Variations of Water Quality along South East Coast of	https://www.woarjournals.org/IJGAES/vol_issue.php?abc1=12 .	Year, Vol. Page. No -

	India.		ISSN (online): 2348- 0254. Impact Factor - 1.93
29.	GC-MS analysis of ethanolic extract of <i>Nothapodytes nimmoniana</i> (Graham) Mabb. leaves	Malaya Journal of Biosciences	Year, Vol. Page. No - 2014, 2(1):42-49 Impact Factor - 4.536
30.	Antifertility investigations on the ethanol extract of <i>eugeniasingampattiana</i> Bedd leaf in male albino rats	International Journal of Pharmaceutical Sciences and Research	Year, Vol. Page. No - 2014; Vol. 5(7): 2991- 2998. Impact Factor - 2.60
31.	Hepatoprotective Effect of <i>Eugenia singampattiana</i> Bedd Leaf Extract on Carbon Tetrachloride Induced Jaundice	International Journal of Pharmaceutical Sciences Review and Research	Year, Vol. Page. No - 21(1), Jul – Aug 2013; 08, 41-45 Impact Factor - 0.65
32.	Evaluation of anti-inflammatory activity of <i>Eugenia singampattiana</i> Bedd leaf	International journal of advanced research	Year, Vol. Page. No - (2013), Volume 1, Issue 6, 248-251 Impact Factor - 5.336
33.	Spatial Heavy Metal Distribution Status in the Coastal Sediments along South East Coast of India.	http://www.theijst.com/2014-2/december-14 .	Year, Vol. Page. No - (IIFS) ISSN (online) 2321- 919X. Impact Factor - 1002
34.	Seasonal Distribution of Heavy Metals in the Coastal Waters and Sediments along the Major Zones of South East Coast of India	http://www.isca.in/IJENS/v4i2.php .	Year, Vol. Page. No - SJIF 2012:ISSN (online): 2319 – 1414. Impact Factor - 3.116
35.	Gc-ms determination of bioactive components of <i>eugeniaflocossabedd</i> . (myrtaceae)	International Journal of Pharma and Bio Sciences	Year, Vol. Page. No - Vol 3/Issue

			1/Jan – Mar 2012 Impact Factor - 0.36
36.	Antioxidant, Antihyperlipidaemic and Antidiabetic Activity of <i>Eugenia Floccosa</i> Bedd Leaves in Alloxan Induced Diabetic Rats	Journal of Basic and Clinical Pharmacy	Year, Vol. Page. No - Vol-003 Issue-001 February 2012
37.	Antioxidant, antihyperlipidaemic and antidiabetic activity of <i>eugeniasingampattiana</i> bedd leaves in alloxan induced diabetic rats	International Journal of Pharmacy and Pharmaceutical Sciences	Year, Vol. Page. No - Vol 4, Suppl 3, 2012 Impact Factor - 1.78
38.	HPTLC finger print analysis of phytochemicals and in vitro antioxidant activity of <i>Eugenia singampattiana</i> Bedd.	Journal of Applied Pharmaceutical Science	Year, Vol. Page. No - Vol. 2 (12), pp. 112-124, December, 2012 Impact Factor - 3.537
39.	HPTLC finger print analysis of phytochemicals and in vitro antioxidant activity of <i>eugeniafloccosa</i> bedd.	Bioscience Discovery	Year, Vol. Page. No - 3(3): 296-311, Nov. 2012 Impact Factor - 0.675

PUBLICATIONS: UGC LISTED JOURNALS ()			
S. No	Title of the Paper	Name of the Journal	ISSN No., Volume, Issue, Impact factor & Pg. No
1.	Green synthesis and characterization of silver nanoparticles using <i>Triumfetta Rotundifolia</i> plant extract and its antibacterial activities	Journal of Natural Product and Plant Resources,	6 (3):21-27, 2016
2.	Isolation, Purification and Characterization of (R)Petrinine from <i>Catharanthus pusillus</i> (Murr.) G.Don (Apocynaceae)	International Journal of Science and Research (IJSR)	(2015) Volume 5 Issue 7, July 2016
3.	Evaluation of total phenolics, flavonoid, contents and in-vitro antioxidant properties of <i>Catharanthus pusillus</i> (Apocynaceae)	International Journal of Pharmaceutical Sciences and Research	(IJSR), 2016, 7(7), 3021-3027.

4.	Spectroscopic, microbial and DNA binding affinities of some copper metal complexes using 1,10-phenanthroline as a co-ligand, Der Pharmacia Lettre		2016,8(1):310-319

PUBLICATIONS: OTHER INDEXED JOURNALS ()

S. No	Title of the Paper	Name of the Journal	ISSN No., Volume, Issue, Impact factor &Pg.No

AS A RESOURCE PERSON (26)

S. No	Name of the Event	Name of the Sponsoring Agency	Place and Date
1.	Organo metallic chemistry	Sarah Tucker College, Palayamkottai	
2.	Organic reaction mechanism	Parasakthi College, Courtallam	

WEBMINARS/SEMINARS/ CONFERENCES / SYMPOSIA / WORKSHOP PAPER PRESENTED: National () International ()

S. No	Name of the Event	Name of the Sponsoring Agency	Place and Date
1.	Recent Trends in Materials Chemistry	Department of Chemistry, St. Xavier's College	Palayamkottai, 23&24 February 2017
2.	Women in Science and Technology	Department of Chemistry, St. Xavier's College	Palayamkottai, 23&24 February 2017

**WEBMINARS/SEMINARS/ CONFERENCES / SYMPOSIA / WORKSHOP
ATTENDED:**

S. No	Name of the Event	Name of the Sponsoring Agency	Place and Date
1.	Digital skills for Smart Teaching	Raja Doraisingam Government Arts & Science	Sivaganga 22-23 June 2020
2.	“21 st Century Teaching skills	Annai Hajira women’s college	Tirunelveli 8-20 July 2020
3.	Upscaling Pedagogy with Moodles	Don Bosco college	Yelagiri hills 13-15 July 2020
4.	“Implementation of Information and Communication Technology in Teaching	The Kerala state Higher Education council	Thiruvananthapuram 18-24 July 2020
5.	Serverless Computing – Introduction	Nehru Institute of Information Technology and Management	Coimbatore 30.07.2020
6.	Technologies Behind Modern Web Application	Nehru Institute of Information Technology and Management	Coimbatore 01.08.2020
7.	Material Science and Nano Technology	.S.Abdur Rahman Crescent Institute of Science and Technology	Chennai 03.08.2020 to 17.08.2020
8.	Smart Technologies for Drug Design, Energy and Environment	Kumaraguru College of Technology Kumaraguru College of Technology	Coimbatore 01.09.2020 to 07.09.2020
9.	“21 st Century Teaching skills	1. Annai Hajira women’s college	Tirunelveli 8-20 July 2020
10.	Upscaling Pedagogy with Moodles	Don Bosco college	Yelagiri hills 13-15 July 2020
11.	“Implementation of Information and Communication Technology in Teaching One week online National FDP on Enhancing Quality of Chemistry Education in India	The Kerala state Higher Education council Guru Angadev Teaching Learning Centre, MHRD,	Thiruvananthapuram Delhi 18-24 July 2020 25 Feb-03 March 2020
12.	COVID taught us Agile	Nehru Institute of Information Technology	2. Coimbatore 02.08.2020
13.	Scientific Approach to COVID-19	Vellore Muthurangam Government Arts College	Vellore 06.08.2020

COUNTRIES VISITED

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EXTRA-CURRICULAR ACTIVITIES/ CO-CURRICULAR ACTIVITIES ATTENDED(NCC/NSS/YRC/SPORTS/LITERARY AND CULTURAL ACTIVITIES)
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Date:

Name: Dr.S.Mary Jelastin Kala