

RESUME



Name: Dr. A. Jerold Antony
Designation: Assistant Professor
Department: Chemistry
Address: St. Xavier's College (Autonomous),
Palayamkottai

PERSONAL DETAILS

Date of Birth : 14-06-1983

Qualification : M,Sc; M.Phil, SET, Ph.D;

Designation : Assistant Professor

Department : Chemistry

Community : BC

Religion : Christian

Nationality : Indian

Mobile : +91-9095742748

Email ID : jeroldantony2012@gmail.com

ACADEMIC QUALIFICATIONS				
Degree	Specialization	College	University	Year of Passing
UG	Chemistry	Aditanar College of Arts and Science, Tiruchendur	Manonmanium Sundaranar University	2004
PG	Chemistry	Aditanar College of Arts and Science, Tiruchendur	Manonmanium Sundaranar University, Tirunelveli.	2006
M.Phil	Chemistry	VOC College, Tuticorin	Manonmanium Sundaranar University, Tirunelveli.	2008
PhD	Chemistry	St.Xavier's College (Autonomous), Palayamkottai	Manonmanium Sundaranar University, Tirunelveli.	2022
ACADEMIC IDENTITY				
*VIDWAN ID		286858		
*ORCID ID		0000-0003-0280-5593		
*SCOPUS ID		57118146600		
*RESEARCHER ID/ PUBLONS ID		GOE-5847-2022		
GOOGLE SCHOLAR LINK		https://scholar.google.co.in/citations?hl=en&user=hEizwakAAAAJ		

TEACHING EXPERIENCE

Date of Appointment	14-06-2016
Date of Retirement	14-06-2043
Teaching Experience	UG 4 Years
	PG 9 Years
	M.Phil.
Research	Guided M Phil: Nil Guided Ph D: Nil Guiding PhD Scholar: NA

COURSES/ CLASSES TAUGHT	NAME OF THE INSTITUTIONS	DURATION		Years
		From	To	
Organic Chemistry	St.Xavier's College (Autonomous), Palayamkottai	14-06-2016	Till date	2.1
Physical Chemistry	St.Xavier's College (Autonomous), Palayamkottai	14-06-2016	Till date	2.1
Inorganic Chemistry	Aditanar College of Arts and Science, Tiruchendur	02-07-2007	31.05.2010	2.11
Inorganic Chemistry	St.Xavier's College (Autonomous), Palayamkottai	14-06-2016	14-06-2017	1.0
Environmental Science	St.Xavier's College (Autonomous), Palayamkottai	14-06-2017	14-06-2018	1.0

AWARDS RECEIVED	
1.	Best Poster presentation award in International Conference on Smart Materials Chemistry held at St.Joseph's College(Autonomous), Tiruchy
2.	
3.	
4.	
5.	

ADMINISTRATIVE EXPERIENCE

S. No	DESIGNATION	INSTITUTIONS	YEAR
1	Assistant Director STAND	St.Xavier's College (Autonomous), Palayamkottai	June 2025

MEMBERSHIP		
S. No	Designation	Particulars
1.		
2.		
3.		
4.		
5.		

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	One week online short term FDP on "Implementation of Information and Communication Technology in Teaching"	School of Legal Studies Cochin University of Science and Technology, Kochi in collaboration with Kerala State Higher Education Council, Trivandrum	18-24 July 2020
2	4 weeks induction/orientation programme for Faculty in Universities/Colleges/Institutes of Higher Education	Ramanujan College, University of Delhi under the Pandit Madan Mohan Malaviya National Mission	20 June 2022-19 July 2022
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	Three days online FDP on “ICT tools for effective teaching”	IQAC, Kamala Nehru Mahavidyalaya, Nagpur	08-10 June 2021
2	FDP on Upscaling Pedagogy with MOODLE	Don Bosco College, Yelagiri Hills collaboration with Bosco Soft Technologies	13-15 July 2020
3	ICT-Enabled Teaching and Learning	Internal Quality Assurance Cell (IQAC), St Xavier’s College, Palayamkottai	29-05-2024 to 14-06-2024
4	Teaching Teachers: Style and Professionalism	Internal Quality Assurance Cell (IQAC), St Xavier’s College, Palayamkottai	23.07.2024
5	Preparation and Finalizing Research Papers for Journals Recognized by the Institute for Scientific Information.	Internal Quality Assurance Cell (IQAC), St Xavier’s College, Palayamkottai	08-08-2024
6	Enhancing Research Productivity: Impactful Publications and Projects	Internal Quality Assurance Cell (IQAC), St Xavier’s College, Palayamkottai	12.12.2025

DETAILS OF RESEARCH WORK

Research Stages	Title of the Thesis	University where the work was carried out
PhD	Synthesis and Applications of Pristine and Doped WO ₃ Nanoparticles	Manonmanium Sundaranar University, Tirunelveli.

AREAS OF RESEARCH

Nano Chemistry

Inorganic chemistry
Polymer Chemistry

RESEARCH PROJECTS CARRIED OUT			
S. No	Title of the Project (Minor)	Name of the Funding Agency & Amount	Duration

PUBLICATIONS				
BOOKS	BOOK CHAPTERS	SCOPUS	WEB OF SCIENCE	UGC LISTED
	1		https://share.google/HafVHZUtwgZyDkmGV	
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	Engineering Applications of Polymer Based Nano Blends	Springer	2025

BOOK CHAPTERS (1)			
S. No	Title of the Paper	Name of the Book	ISSN No., Pg.No
1	Chapter-2 Poly(Lactic Acid) Blends in Biomedical Applications	Engineering Applications of Polymer Based Nano Blends	978-3-031-90979-5, Page No: 23

PUBLICATIONS: SCOPUS INDEXED JOURNALS (14) WEB OF SCIENCE (14)			
S. No	Title of the Paper	Name of the Journal	ISSN No., Volume, Issue, Impact factor & Pg. No
1	Enhancing the visible light induced photocatalytic properties of WO ₃ nanoparticles by doping with vanadium	Journal of Physics and Chemistry of Solids	0022-3697, Volume; October 2021, 157, page no: 110169 and Impact Factor=4.9
2	Phase Modifications of WO ₃ Nanoparticles with Green Capping Agents for Effective Removal of Copper Ions from Waste Water	Journal of Inorganic and Organo metallic Polymers and materials	1574-1451, 32(2), page no: 367 & Impact Factor =4.9
3	Mo Doped WO ₃ Nanoparticles as Nanoprimer Agent for Promoting the Seed Germination and their Effects on Bacterial Growth	Journal of Cluster Science	1572-8862, volume-34(1),page no:177-188, Impact Factor = 3.6
4	Structural, optical, and magnetic properties of pristine and Cr doped WO ₃ nanoparticles	Inorganic and Nano-Metal Chemistry	2470-1556,52 (7), page no:951-960 & Impact Factor =1.6

5	Spectroscopic, microbial and DNA binding affinities of some copper metal complexes using 1,10-phenanthroline as a co-ligand	Der Pharmacia Lettre,	0975-5071, 8 (1), page no : 310-319 & Impact Factor = 0.314
6	Visible Light Driven Effective Photodegradation of Alizarin Red S Using Zirconium Doped Metastable Hexagonal MoO ₃ Nanorods	Journal Of Cluster Science	1040-7278, Volume 34, 26 October 2022, pages 2079–2091, (2023) Impact Factor =3.6
7	Electrical conductivity and electrochemical studies of Cr-doped MoO ₃ nanoflakes for energy storage applications	Journal of Solid State Electrochemistry	14328488, 14330768, 27(2023), 271-280, Impact Factor = 2.646
8	Deep eutectic solvent mediated synthesis and fabrication of a WO ₃ –MgO nanocomposite as an electrode material for energy storage applications	New Journal of Chemistry	1144-0546,47(6), 2797-2808, Impact Factor =2.5
9	Enhancing the optical, temperature dependent electrical and dielectric properties of WO ₃ through Fe doping for optoelectronic applications	Journal of Material Science: Materials in Electronics	1573-482X, Volume 34 15 March 2023 article number 761, (2023), Impact Factor =2.219
10	Temperature and frequency dependent electrical conductivity of Al-Mo co-doped WO ₃	Inorganic Chemistry Communications	1879-0259, Volume 155, September 2023, 111070, Impact Factor = 5.4

	nanoparticles		
11	Role of deep eutectic solvent in the surface modification of yttria based WO ₃ nanocomposite for application in nanoarchitectonics	Ceramics International	1873-3956, Volume 49, Issue 22, Part B, 15 November 2023, Pages 36189-36198, Impact Factor =5.6
12	Highly efficient kaolin/g-C ₃ N ₄ /WO ₃ ternary nanocomposite for the effective removal of Arsenic ions from aqueous media	Diamond and Related Materials	1879-0062, Volume 144, April 2024, 110955 Impact Factor =4.1
13	Green synthesis of metastable h-WO ₃ nanoparticles for photocatalytic degradation of ofloxacin in waste water	Journal of Alloys and Compounds	1873-4669, Volume 1019, 10 March 2025, 179305, Impact Factor =6.3.
14	Innovations, applications and future directions of Graphyne: A mini review	Inorganic Chemistry Communications	1879-0259, 7 July 2025, 115029 and Impact Factor = 5.4

PUBLICATIONS: UGC LISTED JOURNALS (3)			
S. No	Title of the Paper	Name of the Journal	ISSN No., Volume, Issue, Impact factor & Pg. No
1	Synthesis and Characterisation of CuO nanoparticles using anthranilic acid as surfactant	"Journal of Emerging Technologies and Innovative Research (JETIR)	2349-5162, 6(3), IF=7.95 & 67-71
2	Catalytic and antibacterial efficacy of biogenic platinum nano particles using Cressa cretica leaf broth	Journal of Applied Science and Computations (JASC)	1076-5131, IV, IF = 5.8 & 287-291
3	Green Synthesis and Characterisation of Gold Nano particles Using Leaf Extract of Spermacoce Hispidia Borreria	Journal of Applied Science and Computations (JASC)	1076-5131, 6(3), IF = 5.8 & 1536

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

WEBMINARS/SEMINARS/ CONFERENCES / SYMPOSIA / WORKSHOP PAPER PRESENTED: National () International ()			
S. No	Name of the Event	Name of the Sponsoring Agency	Place and Date
1	Emerging Trends in Chemistry (ETC-16)	UGC	06.01.2016
2	Recent trends in Interdisciplinary Science' (RTIS-2019)	UGC Autonomy Grant	20.09.2019
3	UGC sponsored National Conference on Emerging Trends in Algae	UGC	28.11.2019

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

S. No	Name of the Event	Name of the Sponsoring Agency	Place and Date
1	One day online National conference on “Applications quantum chemistry	Shri panchamkhemrajmahavidyal aya	3-May 2020 Online
2	International Webinar on Materials for Energy, Environment and Healthcare Applications	The Gandhigram Rural Institute – DTBU, Gandhigram, Tamilnadu	21-22 May 2020 Online
3	International Webinar on Chemistry	The American College, Madurai - 625002, Tamil Nadu, INDIA	29 May 2020 Online
4	Modern Approach to Chemistry and Hands on training on solving spectroscopic problems	Tamil Nadu State Council for Science and Technology & Department of Science and Technology, Government of India, Chennai	24 May2020 Online
5	An International E-conference on Recent advances in Chemical, Physical and Biological sciences	Department of Chemistry, Nabira Mahavidyalaya, Kotal and Association of Chemistry Teachers (ACT), C/O Homi Bhabha Centre for Science Education (TIFR), Mumbai	29-30 June 2021 Online
6	PEM fuel cells for Electric vehicles and Heterogeneous catalyst design for desulfurization targeting clean environment	PG and Research Department of Chemistry, The American College, Madurai	28 June 2021
7	“CURRENT STATUS AND FUTURE PROSPECTS OF PEROVSKITE SOLAR CELLS”.	Centre of Excellence for Energy Research, Centre for Nanoscience and Nanotechnology, SATHYABAMA Institute of Science and Technology, Chennai,	30 June 2021
8	Three days online FDP on “ICT tools for effective teaching”	IQAC, Kamala Nehru Mahavidyalaya, Nagpur	08-10 June 2021
9	FDP on Upscaling Pedagogy wuth MOODLE	Don Bosco College, Yelagiri Hills collaboration with Bosco Soft Technologies	13-15 July 2020

COUNTRIES VISITED

EXTRA-CURRICULAR ACTIVITIES/ CO-CURRICULAR ACTIVITIES ATTENDED(NCC/NSS/YRC/SPORTS/LITERARY AND CULTURAL ACTIVITIES)
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Date: 20.07.2025

Name: Dr. A. Jerold Antony