

Profile



Name : **Dr. A. Mary Imelda Jayaseeli**

Designation : **Head and Associate Professor**

Department : **CHEMISTRY**

Date of Birth : **12.07.1964**

Date of Appointment : **01.07.1988**

Academic

S.no	Degree	University / Institution	Year of Completion
1	B.Sc.	Holy Cross College(Autonomous), Tiruchirapalli-2	1984
2	M.Sc.	St. Joseph's College (Autonomous), Tiruchirapalli-2	1987
3	M.Phil	St. Joseph's College (Autonomous), Tiruchirapalli-2	1988
4	B.Ed.	Annamalai University, Chidambaram	1989
5	PGDCA	Jayaraj Annapackiam College For Women, Periyakulam	1999
6	Ph.D	Madurai Kamaraj University, Madurai	2009

Academic Affiliation:

Total Experience: 36 years

Area of Specialization/Interest: Schiff Bases – Binding studies of catalyzed reactions

Professional Affiliation:

2011-2012	IQAC member
2012-13, 2013-14, 2014-15	NSS Programme Officer
2015-2016	Member of Library committee
2015 – 2018	Dean for Students
2015- 2018	Member in Anti Ragging cell
2017-2018 on wards	Head of the Department of Chemistry
2017-2018 on wards	Academic council member, Planning and Evaluation committee member, Examination and Awards committee member, Staff council member, Chairman of BoS of Chemistry
2018-2019	Women's Cell Coordinator
2019-2020	College Magazine Chief Editor
2020-2023	Consultancy Cell Coordinator Golden Jubilee Souvenir Editorial committee member
2022-2023	Consultancy Cell Coordinator Staff Club Secretary
2023-2024	Staff Club Secretary

Member in Other Bodies:

- 1. Question setter for other colleges, External examiner for practical exam and theory exam for other colleges, External examiner for M.Phil viva voce.**
- 2. Served as subject expert for Board of Studies of Chemistry in HKRH College, Uthamapalyam, Arul Anandar College, Karumathur, Madurai and Fatima College, Madurai.**

3. Reviewer for the international peer reviewed journals **Research on Chemical Intermediates, Journal of Bimolecular structure and Dynamics.**

Research Details:

MAJOR RESEARCH PROJECT:

UGC sponsored interdisciplinary Major Research Project is completed:

Co- Investigator: 2014-2017

Amount Sanctioned: ₹ 14,55,000

Title: Mathematical Modelling and Computing Systems for Simulating Interaction of Metallo drugs with Proteins

Ph.D Guidship: Received from Mother Teresa Women's University, Kodaikanal in the Year 2014

Name of the Scholars	Register No. & Date	Title	Status
J.Jeevitha Rani	PHDCHE16F483 08.07.2016	Interaction of Cobalt and Nickel–Salphen Complexes with Biomolecules	Awarded in August, 2023

Number of projects completed

M.Phil : 06

M.Sc. : 15

B.Sc. : 04

Books published: 04

Co-authored “Allied Chemistry Volume I and II and Allied Chemistry III and IV”

Seminars/ webinars organized:

- 1. CSIR funded National seminar on Recent Trends in Chemistry (RTC-3)**
- 2. IAS funded National level Lecture workshop on Recent Trends in Chemistry(RTC-5 and 9)**
- 3. International SPSS conference in collaboration with AIMST University, Malaysia in Jan 2018**

4. International Webinar on June 2020

Research Publications:

International Publications:

1. P. Helen Chandra, S.M. Saroja Theerdus Kalavathy and **A. Mary Imelda Jayaseeli**, Mechanism of Sulfoxidation in Artificial Cell System, *IEEE Journal*, 978-1-4799-8011-6/14-2014, (2014).
2. P. Helen Chandra, S.M. Saroja Theerdus Kalavathy, **A. Mary Imelda Jayaseeli**, and J. Philomenal Karoline, Mechanism of FUZZY ARMS on Chemical reactions, Innovations in Bio inspired computing and application, ISSN No. 2194-5357, 43-53(2015).
3. **A. Mary Imelda Jayaseeli**, Arumugam Ramdass and Seenivasan Rajagopal, Selective H₂O₂ oxidation of Organic Sulfides to Sulfoxides catalysed by Cobalt (III) – Salen ion, *Polyhedron*, 100, 59-66 (2015).
4. J. Philomenal Karoline, P. Helen Chandra, S.M. Saroja Theerdus Kalavathy, **A. Mary Imelda Jayaseeli**, Simulation of FUZZY ACSH on membranes with Michaelis- Menten Kinetics, International Springer publication ISSN No. 1865-0929, 142-154, (2016).
5. J. Jeevitha Rani, **A. Mary Imelda Jayaseeli**, Green Synthesis characterization and biological studies of Thiazole derived Schiff Base Complexes, International Journal Of Advance Research In Science And Engineering, ISSN No. 2319-8354(2017)
6. J. Philomenal Karoline, P. Helen Chandra, S.M. Saroja Theerdus Kalavathy, **A. Mary Imelda Jayaseeli** Model Based Simulation of Michaelis-Menten Kinetic Reactions by DPO Graph Transformation. Journal of Applied Science an Computations (JASC), Volume 5, Issue 7, July 2018, ISSN No. 0076-5131, DOI.16.10089/JASC, (ISO: International Organization for Standardization 7021-2008), (2017)
7. J. Philomenal Karoline, P. Helen Chandra, S.M. Saroja Theerdus Kalavathy, **A. Mary Imelda Jayaseeli**, Stoichio simulation of FACSP from graph transformations to differential Equations, International Conference on Mathematics and Computing, 387-398(2018)
8. J. Jeevitha Rani, **A. Mary Imelda Jayaseeli**, M Sankarganesh, R Nandini Asha, Bovine serum albumin interaction, molecular docking, anticancer and antimicrobial activities of Co(II) Schiff base complex derived from Nophen Ligand, Journal of Bio-molecular Structure and Dynamics, 41, 1895-1903 (2022).
9. J. Jeevitha Rani, **A. Mary Imelda Jayaseeli**, S. Rajagopal, S. Seenithurai, Jeng-Da Chai, J. Dhaveethu Raja, R. Rajasekaran, Synthesis, characterization, antimicrobial, BSA binding, DFT calculation, molecular docking and cytotoxicity of Ni(II) complexes with Schiff base ligands, Journal of Molecular Liquids, 328 (2021) 115457.

National Publication:

1. Deepalakshmi, **A. Mary Imelda Jayaseeli**, Green Synthesis of Zinc Oxide Nanoparticles and their Biological Investigation, JAC JOSHAM Journal Vol. 2, June (2015) ISSN No. 2347-9868, pp 1-11
2. P. Helen Chandra, S.M. Saroja Theerdus Kalavathy, **A. Mary Imelda Jayaseeli**, and J. Philomenal Karoline, FUZZY ACS with biological catalysts on membranes in chemical reactions Journal of Network and Innovative Computing, (2016), ISSN No.

- 2160-2174, 4, 143-151.
- J. Jeevitha Rani, B. Subasri Vidhaya, **A. Mary Imelda Jayaseeli**, Synthesis, Characterization and BSA binding studies of Co(II) and Cu(II) complexes derived from Benzalen ligand, JACJOSHAMJournalVol.8,Dec (2020)ISSNNo.2347-9868,pp21-30.
 - S. Maria Esther, J. Jeevitha Rani and **A. Mary Imelda Jayaseeli**, Photocatalytic Efficiency of Fe(III) Schiff base complex for Methylene Blue Dye, JAC JOSHAM Journal 2022

Seminars/Conferences/Workshops Participated:

S. No	Theme of seminar / Workshop / Conference	Date & Place
1.	IAS sponsored Lecture-Workshop on Recent Trends in Chemistry (RTC-5)	15th & 16th December 2011 Jayaraj Annapackiam College for Women, (Autonomous), Periyakulam.
2.	UGC sponsored National Seminar on Recent Trends in Chemistry	15th & 16th March 2012, H.K.R.H. College, Uthamapalayam
3.	National Symposium on Frontier Areas in Chemistry-II	28th January 2014, The American College, Madurai,
4.	Workshop organized by National Testing Service-India on Item Analysis and Test Designing	10th – 12th February, 2014, Thiyagarajar College (Autonomous), Madurai
5.	UGC sponsored Workshop on E-Content Development for effective teaching and learning	11th – 13th September, 2014, Department of Physics and IQAC of JAC
6.	Asian Conference on Membrane Computing	19th September, 2014. Department of Mathamatics, School of Computer Science and Technology , Karunya University, Coimbatore
7.	Ranking the Research Publication: Citation Analysis, Citation Databases and Anti-Plagiarism	Jayaraj Annapackiam College for Women (Autonomous), Periyakulam 27th and 28th January, 2016.
8.	One day National Symposium on “Recent Developments in Chemistry”	Department of Physical Chemistry, School of Chemistry, Madurai Kamaraj University, Madurai on 4th June, 2016.

9.	TN convention on National Policy on Education-2016, organized by Jesuit Hr. Edn. Commission, TN, AIACHE, New Delhi and Xavier Board of Hr. Edn. TN Region	St. Joseph's College on 12th August 2016.
10	International Workshop in Collaboration with AIMST University	Jayaraj Annapackiam College for Women (Autonomous), Periyakulam 17-19, Jan., 2018
11	UGC sponsored National Seminar on Recent Trends in Chemistry	Jayaraj Annapackiam College for Women (Autonomous), Periyakulam 23.01.2018
12	Workshop on Women in Science and Research	Jayaraj Annapackiam College for Women (Autonomous), Periyakulam 19.02.2018 & 20.02.2018
13	TNSCST Sponsored International Conference on Emerging Trends in Mathematical Sciences and Technology	Research Centre and PG Department of Mathematics, JAC, Periyakulam 20.12.2018 & 21.12.2018
14	National seminar on Recent Trends in Chemistry (RTC-10)	Jayaraj Annapackiam College for Women (Autonomous), Periyakulam 10.12.2019
15	International Webinar on Recent Trends in Chemistry (RTC – I- 2)	Jayaraj Annapackiam College for Women (Autonomous), Periyakulam 11.3.2021 and 12.3.2021
16	International Webinar on Recent Trends in Chemistry (RTC-I-4)	Jayaraj Annapackiam College for Women (Autonomous), Periyakulam 19.12.2022
17	International Webinar on Recent Trends in Chemistry (RTC-I-5)	Jayaraj Annapackiam College for Women (Autonomous), Periyakulam 19.09.2023
18	International Conference on Advanced Functional Materials for Sustainable Development	Jayaraj Annapackiam College for Women (Autonomous), Periyakulam. 04.03.2024 & 05.03.2024

Conference Presentations:

Year	Title of the Paper	Seminar	Place & Date
2011-2012	Synthesis, Characterisation and biological activities of metal salen and metal salph complexes	UGC sponsored National seminar on Recent Trends in Chemistry	16th March, 2012 Hajee Karutha Rowther Howdia College, Uthamapalayam
2013-2014	Synthesis, Characterization, Biological activities and Binding studies of Thiozole derived Schiff base complexes	National Symposium on Frontier Areas in Chemistry-II	28th January 2014, The American College, Madurai,
	Mechanism of Sulfoxidation in Artificial cell system	Asian Conference on Membrane Computing (International)	19th September, 2014. Department of Mathamatics, School of Computer Science and Technology , Karunya University, Coimbatore
2014-2015	Green Synthesis, Spectral Analysis and Biological Significance of Some Schiff Base Complexes	UGC sponsored National seminar in Recent Trends in Chemistry	8th-9th , January, 2015, Jayaraj Annapackiam College for Women, Periyakulam
2015-2016	Microwave Synthesis of Schiff Bases Derived from Cinnamaldehyde and their Biological Significance	UGC sponsored International Conference on Recent Advances in Materials and Chemical Sciences	Gandhigram Rural Institute (DU), Dindigul 15th Dec.2015
	Biological Investigations of ZnO nano particles synthesized from plant extracts	National	21st – 22nd December, 2015, School of Chemistry, Madurai Kamaraj University, Madurai
	Accountability in Catholic	Christ University,	Three day conference

2016-2017	Higher Education: Issues and Challenges	Bengaluru from 10th-12th May, 2016	on “Catholic Higher Education In India: Rethinking Purpose and Context
	Binding studies of some Schiff bases	Saiva Bhanu Kshatriya College, Aruppukottai on 30th September 2016.	ICMR, DBT, INSA sponsored International Conference on Cancer Biology: Drug Discovery and Novel Therapeutics
	Synthesis and Characterization of Copper Schiff Base Derived from Furfuraldehyde	St.Anne’s Auditorium, JAC, 11th and 12th Jan.2017	UGC sponsored National Seminar on Recent Trends in Chemistry (RTC-7), ISBN No: 978-81-922846-4-4
2019-2020	Ni(II) Schiff Bases: A Short Review of their Antimicrobial Activities	St.Anne’s Auditorium, JAC. 10th Dec. 2019	National Seminar on Recent Trends in Chemistry (RTC-10)
	Photodegradation Efficiency of Schiff Bases Complexes	St.Anne’s Auditorium, JAC. 10th Dec. 2019	National Seminar on Recent Trends in Chemistry (RTC-10)
	Photodegradation Studies Using Fe(II) and Ni(II) Naphthylene Schiff Bases	St.Anne’s Auditorium, JAC. 10th Dec. 2019	National Seminar on Recent Trends in Chemistry (RTC-10)
2022-2023	IPR and Pharmaceuticals challenges and opportunities	St.Anne’s Auditorium, JAC, 8th and 9th Feb. 2023	ICSSR sponsored international seminar on Economic Impact of Intellectual property Rights
2023-2024	Trimetallic NiSe-FeSe @ double shell nanorods as an effective electrocatalyst for direct urea fuel cell	St.Anne’s Auditorium, JAC, 4th and 5th March. 2024	International Conference on Advanced Functional Materials for Sustainable Development

Awards:

- 1. Kalvi Sudar award –Thenee Kalai Ilakiya Mayam, Theni**
- 2. International Excellent Researcher Award- ASTRA-2023**

Seminars/Conferences organized (last five years)

S. No.	Title of the Programme	Institution/Venue	Date
1.	International Workshop on Statistics using Excel and SPSS in Collaboration with AIMST University	JAC	17-19, Jan., 2018
2	Indian Academies of Science sponsored National Seminar on Recent Trends in Chemistry (RTC-9)	JAC	28-29, Sep., 2018
3	Inservice Training Programme for Science Teachers sponsored by TNSCST	JAC	18-22, Feb., 2019
4.	International Webinar	JAC	11-12, June, 2020

Served as Research Person:

- 1. Served as judge for competition “Inspire Science Exhibition” organized at Nadar Saraswathi Hr.Sec.School, organized by CEO, Theni, Sponsored by TNSTC**
- 2. Trained the students in a workshop organized by Entrepreneurship cell of JAC for preparation of Cottage Industrial Goods on 12. 08. 2014**
- 3. Delivered a lecture on the topic ‘Development of Chemical Sensors’ in a association meeting arranged by Department of Physics, JAC, on 28.08.2014**
- 4. Delivered a lecture on the topic ‘Quantum Chemistry I & II’ at Department of Chemistry, Mother Teresa University on 09.09.2014**
- 5. Delivered Inaugural address for the one-day Programme in the Department of Commerce with computer applications**
- 6. Motivational Inaugural address in the Inter-Collegiate Meet SPECTRA’**

2K19 on 15.02.2019, at Mary Matha College of Arts and Science, Periyakulam.

- 7. Delivered a guest lecture on “Beat Plastic Pollution” for the Staff and Students of Govt. Arts and Science College, Veerapandi - Theni on 09.05.2022**
- 8. Served as Resource person and delivered a special lecture on “Chemical Kinetics- Composite Reactions” at Chemistry Department, Mother Teresa Women’s University, Kodaikanal on 18.11.2022**

Contact Details:

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for Women, Thamarikulam, Periyakulam

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