

# 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>B.Sc.</b>	<b>Holy Cross College(Autonomous), Tiruchirapalli-2</b>	<b>1984</b>
2	<b>M.Sc.</b>	<b>St. Joseph's College (Autonomous), Tiruchirapalli-2</b>	<b>1987</b>
3	<b>M.Phil</b>	<b>St. Joseph's College (Autonomous), Tiruchirapalli-2</b>	<b>1988</b>
4	<b>B.Ed.</b>	<b>Annamalai University, Chidambaram</b>	<b>1989</b>
5	<b>PGDCA</b>	<b>Jayaraj Annapackiam College For Women, Periyakulam</b>	<b>1999</b>
6	<b>Ph.D</b>	<b>Madurai Kamaraj University, Madurai</b>	<b>2009</b>

**Academic Affiliation:**

**Total Experience: 35 years**

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

**Professional Affiliation:**

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

**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 Metallodrugs 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	Awaiting for viva voce

**Number of projects completed**

**M.Phil : 06**  
**M.Sc. : 12**  
**B.Sc. : 03**

**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 H<sub>2</sub>O<sub>2</sub> 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.
3. 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.
  4. 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)	15 <sup>th</sup> & 16 <sup>th</sup> December 2011 Jayaraj Annapackiam College for Women, (Autonomous), Periyakulam.
2.	UGC sponsored National Seminar on Recent Trends in Chemistry	15 <sup>th</sup> & 16 <sup>th</sup> March 2012, H.K.R.H. College, Uthamapalayam
3.	National Symposium on Frontier Areas in Chemistry-II	28 <sup>th</sup> January 2014, The American College, Madurai,
4.	Workshop organized by National Testing Service-India on Item Analysis and Test Designing	10 <sup>th</sup> – 12 <sup>th</sup> February, 2014, Thiyagarajar College (Autonomous), Madurai
5.	UGC sponsored Workshop on E-Content Development for effective teaching and learning	11 <sup>th</sup> – 13 <sup>th</sup> September, 2014, Department of Physics and IQAC of JAC
6.	Asian Conference on Membrane Computing	19 <sup>th</sup> 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 27 <sup>th</sup> and 28 <sup>th</sup> January, 2016.
8.	One day National Symposium on “Recent Developments in Chemistry”	Department of Physical Chemistry, School of Chemistry, Madurai Kamaraj University, Madurai on 4 <sup>th</sup> June, 2016.

<b>9.</b>	<b>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</b>	<b>St. Joseph's College on 12<sup>th</sup> August 2016.</b>
<b>10</b>	<b>International Workshop in Collaboration with AIMST University</b>	<b>Jayaraj Annapackiam College for Women (Autonomous), Periyakulam 17-19, Jan., 2018</b>
<b>11</b>	<b>UGC sponsored National Seminar on Recent Trends in Chemistry</b>	<b>Jayaraj Annapackiam College for Women (Autonomous), Periyakulam 23.01.2018</b>
<b>12</b>	<b>Workshop on Women in Science and Research</b>	<b>Jayaraj Annapackiam College for Women (Autonomous), Periyakulam 19.02.2018 &amp; 20.02.2018</b>
<b>13</b>	<b>TNSCST Sponsored International Conference on Emerging Trends in Mathematical Sciences and Technology</b>	<b>Research Centre and PG Department of Mathematics, JAC, Periyakulam 20.12.2018 &amp; 21.12.2018</b>
<b>14</b>	<b>National seminar on Recent Trends in Chemistry (RTC-10)</b>	<b>Jayaraj Annapackiam College for Women (Autonomous), Periyakulam 10.12.2019</b>
<b>15</b>	<b>International Webinar on Recent Trends in Chemistry (RTC – I- 2)</b>	<b>Jayaraj Annapackiam College for Women (Autonomous), Periyakulam 11.3.2021 and 12.3.2021</b>
<b>16</b>	<b>International Webinar on Recent Trends in Chemistry (RTC-I-4)</b>	<b>Jayaraj Annapackiam College for Women (Autonomous), Periyakulam 19.12.2022</b>

### **Conference Presentations:**

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

<b>2016-2017</b>	<b>Higher Education: Issues and Challenges</b>	<b>Bengaluru from 10<sup>th</sup>-12<sup>th</sup> May, 2016</b>	<b>on “Catholic Higher Education In India: Rethinking Purpose and Context</b>
	<b>Binding studies of some Schiff bases</b>	<b>Saiva Bhanu Kshatriya College, Aruppukottai on 30<sup>th</sup> September 2016.</b>	<b>ICMR, DBT, INSA sponsored International Conference on Cancer Biology: Dr ug Discovery and Novel Therapeutics</b>
	<b>Synthesis and Characterization of Copper Schiff Base Derived from Furfuraldehyde</b>	<b>St.Anne’s Auditorium, JAC, 11<sup>th</sup> and 12<sup>th</sup> Jan.2017</b>	<b>UGC sponsored National Seminar on Recent Trends in Chemistry (RTC-7), ISBN No: 978-81-922846-4-4</b>
<b>2019-2020</b>	<b>Ni(II) Schiff Bases: A Short Review of their Antimicrobial Activities</b>	<b>St.Anne’s Auditorium, JAC. 10<sup>th</sup> Dec. 2019</b>	<b>National Seminar on Recent Trends in Chemistry (RTC-10)</b>
	<b>Photodegradation Efficiency of Schiff Bases Complexes</b>	<b>St.Anne’s Auditorium, JAC. 10<sup>th</sup> Dec. 2019</b>	<b>National Seminar on Recent Trends in Chemistry (RTC-10)</b>
	<b>Photodegradation Studies Using Fe(II) and Ni(II) Naphthylene Schiff Bases</b>	<b>St.Anne’s Auditorium, JAC. 10<sup>th</sup> Dec. 2019</b>	<b>National Seminar on Recent Trends in Chemistry (RTC-10)</b>
<b>2022-2023</b>	<b>IPR and Pharmaceuticals challenges and opportunities</b>	<b>St.Anne’s Auditorium, JAC, 8<sup>th</sup> and 9<sup>th</sup> Feb. 2023</b>	<b>ICSSR sponsored international seminar on Economic Impact of Intellectual property Rights</b>

**Awards:** Kalvi Sudar award –Thenee Kalai Ilakiya Mayam, Theni

**Seminars/Conferences organized (last five years)**

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

**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 TNSCTC**
- 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:**

**Present Address** : Dr. A. Mary Imelda Jayaseeli,  
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for Women, Thamarikulam, Periyakulam

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**Official:** [imeldachem@annejac.ac.in](mailto:imeldachem@annejac.ac.in)