

## RESUME

**Name** : Dr. H.ASIA THABASSOOM

**Date of birth** : 14.04.1991

**Official Address** : PG & Research Department of Chemistry

**Designation** : Assistant Professor  
Jamal Mohamed College (Autonomous)  
Affiliated to Bharathidasan University  
Trichy-620020, TamilNadu, India.

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### Educational Qualification:

Examinations Passed	College	University	Subject	Year	Grade
Ph. D	Holy Cross College	Bharathidasan University	Chemistry	2018-2022	Commended
M.Sc	Jamal Mohamed College	Bharathidasan University	Chemistry	2011-2013	Distinction (D+)
B. Sc	Holy Cross College	Bharathidasan University	Chemistry	2008-2011	Distinction (D+)

### Teaching Experience:

- ✓ Working as an Assistant professor in Department of Chemistry in Jamal Mohamed College, Trichy from 12.06.2023.
- ✓ Worked as a Chemistry Teacher in St. Philomena's Girls Higher Secondary School, Trichy from Dec 2013 to Jan 2014.

**Areas of Specialization:** Physical Chemistry, Corrosion Science, Nano chemistry

**Languages Known:** English, Tamil, Hindi and Urdu

**Subject Taught:** UG – Inorganic Chemistry, Analytical chemistry, Clinical chemistry  
PG – Medicinal Chemistry, organic chemistry

#### **Research Contributions:**

- ✓ Orcid Id: <https://orcid.org/0000-0002-3628-3116>
- ✓ Google Scholar: <https://scholar.google.com/citations?hl=en&user=4j7L554AAAAAJ>
- ✓ Research Gate ID: <https://www.researchgate.net/profile/HasiaThabassoom>

#### **Awards Received:**

- ✓ Secured University Thirteenth Rank in M.Sc. Chemistry.
- ✓ Indian Academy and environmental growth foundation presented in Jan 2023 awarded as **Excellent Research Award**
- ✓ Life Literary Association Singapore presented in Mar 2024 awarded as **Intellectual Personality Award**
- ✓ Tamil Ilakkiya Mandram and National level Arts Ilakkiya Award presented in Mar 2024 Awarded as **Kalvi Ratna Award**

#### **Patents Awarded/ Filed:**

- ✓ Published an Indian Patent Titled “**A Formulation for Facilitating Depositing of Amalgamations onto a backbone**” on 06.05.2023. Ref.No: 1/43947/2023-CHE
- ✓ Published an Indian Patent Titled “**A Formulation for Facilitating Depositing of Amalgamations onto a backbone**” on 06.05.2023. Ref.No: 1/43959/2023-CHE
- ✓ Published an Indian Patent Titled “**A Formulation for Facilitating Depositing of Amalgamations onto a backbone**” on 06.05.2023. Ref.No: 1/43965/2023-CHE

#### **Project Details:**

- ✓ **Ph. D: Electroless Deposition on mild steel using *Lawsonia* isolated from *Lawsonia inermis* Linn. and its Corrosion behavior** under the guidance of Dr. J. Felicita Florence, Assistant Professor, PG& Research Department of Chemistry, Holy Cross College, Trichy.
- ✓ **M.Sc: Synthesis, Structural characterization and antimicrobial study of the Mannich base N-{9H-Carbazol-9-Yl-(Phenyl) Methyl} Benzamide** under the guidance of Ms. Sajena, Assistant Professor, PG & Research Department of Chemistry, Jamal Mohamed College, and Trichy.
- ✓ **B.Sc: Characterization and Anti corrosive inhibitive property of the herb**

**Phyllanthus niruri** Under the guidance of Dr.Noreen Antony, Associate Professor,  
PG& Research Department of Chemistry, Holy Cross College, Trichy.

#### **Publications:**

- ✓ **H. Asia Thabassoom**, F. Femina, J. Felicita Florence, R. Kanmani, J. Amala Infant Joice, A Study on the effect of *Lawsone* as complexing agent in the electroless Zn-P deposition, Oriental Journal of Chemistry, Vol :38, No :2 ,2022, Pg. 388-398.
- ✓ **H. Asia Thabassoom**, J. Felicita Florence, A Study on the effect of Lawsone isolated from *Lawsonia inermis Linn Leaf extract* Ni-W-P alloy electroless deposition, Research Journal of Chemistry and Environment, Vol: 26(9), 2022, Pg. 90-101.
- ✓ **H. Asia Thabassoom** and J. Felicita Florence, Electroless Nickel deposition on mild steel using Lawsone isolated from *Lawsonia inermis Linn leaf*, International journal of analytical and experimental modal analysis, Vol. XIII, March 2020.
- ✓ J. Felicita Florence, M. Lavanya, J. Amala infant joice, **H. Asia Thabassoom** and R. Kanmani, Nanocrystalline Nickel Electro deposition on Carbon steel using ecofriendly Aqueous *Ananas Cosmus Juice*, Asian Journal of chemistry, Vol.31, No.11, September 2019.
- ✓ F. Femina, **H. Asia Thabassoom**, J. Felicita Florence, Photo catalytic reduction of Methyl orange, Anti-bacterial and Anti breast cancer activities of Biogenic silver Nano particle Synthesized from *Beta Vulgaris Extract*, Asian Journal of chemistry, Vol.33, No.12, December 2021.
- ✓ F. Femina, **H. Asia Thabassoom**, S. Auxilia Ruby and J. Felicita Florence, Bio Synthesis of *Beta Vulgaris* Mediated ZnO Nanoparticles and Their Anti-Bacterial, Anti-Fungal, Anti-Diabetic and Anti-Cancer Activities, Oriental journal of Chemistry, Vol.37, No.4, July 2021.
- ✓ **H. Asia Thabassoom**, J. Felicita Florence, Electroless Ni-W-P Alloy Deposition on Mild steel using *Lawsone* as Complexing Agent Oriental Journal of Chemistry, Vol :38, No:6, 2022, Pg.1489-1497.

#### **Book/Chapter Publication:**

- ✓ **Dr.H.AsiaThabassoom**, Electroless Ni-W-P alloy deposition on mild steel using *Lawsone* isolated From *Lawsonia inermis Linn leaf* acts as complexing Agent, Developments in chemistry and biochemistry research, BP International, West Bengal, India, ISBN: 978-81-970983-4-5.

### **Paper Presented:**

- ✓ Nanocrystalline Nickel electro deposition on carbon steel using Eco friendly Aqueous Ananas Cosmus juice on “International conference on innovation Research and networking in higher education for a sustainable society; Challenges & Channels” organized by Holy Cross College, Tiruchirappalli, Tamil Nadu on 25 to 27<sup>th</sup> July 2018.
- ✓ Photo catalytic reduction of Methyl orange, antibacterial activity of biogenic nickel nanoparticles from beta Vulgaris extract in the International virtual Conference on Futuristic Aspects of sensors & Biosensors (IVCFASB-2022) organized by PG & Research Department of Chemistry, Holy Cross College, Tiruchirappalli, Tamil Nadu on 3 and 4<sup>th</sup> March 2022.
- ✓ A Study on the effect of Lawsonia inermis Linn Leaf extract Ni-W-P alloy electroless deposition on National level Virtual Conference on emerging trends in Chemical Sciences organized by Department of chemistry, Karpagam Academy of Higher Education, Coimbatore on 25 & 26<sup>th</sup> March 2022.
- ✓ A Study on the effect of Lawsone as Complexing Agent in the Electroless Zn-P deposition on 7<sup>th</sup> International Conference on innovation in Chemical & Environmental Research (ICICER-2022) organized by PG & Research Department of Chemistry, Jamal Mohamed College, Tiruchirappalli, Tamil Nadu on 25<sup>th</sup> May 2022.
- ✓ Electroless deposition of Ni-W-P alloy on Mild steel using Lawsone as Complexing Agent on International Conference on Material Science For Sustainable Environments (ICMSSE-2022) organized by PG & Research Department of Chemistry, Holy Cross College, Tiruchirappalli, Tamil Nadu on 23 & 24<sup>th</sup> August 2022.
- ✓ Comparative Study on Adsorption Capacity in dyes by various green synthesized Nanoparticles on 7<sup>th</sup> International Conference on innovation in chemical & environmental Research (ICICER-2022) organized by PG & Research Department of chemistry, Jamal Mohamed College, Tiruchirappalli, Tamil Nadu on 25<sup>th</sup> May 2022.
- ✓ A Study on The Effect of Lawsone Isolated from Lawsonia Inermis Linn as a Complexing Agent in the Electroless Ni-P Deposition on National Conference on Furistic Materials in Science and Technology (NCFMST-2023) organized by Bannari Amman Institute of Technology-Sathya Mangalam on 05-09-2023 & 06-09-2023.
- ✓ A Study on the Effect of Lawsone as complexing agent in the Electroless Zn-P Deposition on International Conference on “Fundamentals and Applications of

Nanotechnology (ICFAN 2024) organized by C h e v a l i e r T. T h o m a s E l i z a b e t h C o l l e g e f o r Women on 05-01-2024.

- ✓ Synthesis, Structural Characterization and Antimicrobial Study of The Mannich Base N-{9h-Carbazol- 9-Yl-(Phenyl) Methyl} Benzamide on 8<sup>th</sup> International Conference On recent Advances in Chemical & Environmental Research (ICRACER – 2023) organized by PG and Research Department of Chemistry, Jamal Mohamed College, Trichy on 20-12-2023.
- ✓ A Study on the Effect of Lawsone Isolated from Lawsonia Inermis Linn Leaf Extract Ni-W-P Alloy Electroless Deposition on 3<sup>rd</sup> International conference on Emerging trends in Microbial Technology organized by PG and Research Department of Microbiology, JMC Trichy in association with Microbiologists society, India on 24-01-2024.
- ✓ Ni-Zn-P ternary Electroless deposits on Mild steel Using Lawsone on 3<sup>rd</sup> International Conference ICBAGEP-2024' organized by Department of Biotechnology, Jamal Mohamed College (Autonomous), Tiruchirappalli on 12-02-2024.

#### **Conferences/ Seminars Attended:**

- ✓ International conference on innovation Research and networking in higher education for a sustainable society; Challenges & Channels organized by Holy Cross College, Tiruchirappalli, Tamil Nadu on 25 to 27<sup>th</sup> July 2018.
- ✓ National conference on Nano National Summit- Current trends and Future Perspectives organized by Holy Cross College, Tiruchirappalli, Tamil Nadu on 9 to 10<sup>th</sup> July 2019.
- ✓ National conference on Advanced Materials in Chemistry –NCAMC 2018 organized by St. Joseph's College (Autonomous), Trichy on 8<sup>th</sup> February 2018.
- ✓ International Virtual Conferences on Futuristic Aspects of Sensors & Biosensors (IVCFASB) organized by Holy Cross College, Tiruchirappalli, Tamil Nadu on 3<sup>rd</sup> & 4<sup>th</sup> March 2022.
- ✓ International Virtual Conference on “Innovative Research in Chemical Sciences (IRCS-2020)” organized by the Department of Chemistry, SRM Institute of Science and Technology, Ramapuram Campus, Chennai-89 during 29<sup>th</sup> and 30<sup>th</sup> June, 2020.
- ✓ International Conference on Material Science for Sustainable Environments (ICMSSE-2022) organized by PG& Research Department of Chemistry, Holy Cross College, Tiruchirappalli, Tamil Nadu on 23&24<sup>th</sup> August 2022.
- ✓ International conference on recent advances in Physical Sciences (ICRAPS)-2024 organized by school of Physical Sciences in Collaboration with Mullai Academia international Pvt. Ltd, at Holy cross College, Trichy on 19-01-2024 to 20-01-2024.

- ✓ International Seminar on “Innovations in Bacterial Signaling: Driving Forces in Bio hydrogen and Bio methane Production” jointly organized by the Department of Biotechnology, Institutional Innovation Council & Centre of Excellence in Life Sciences, PSGR Krishnammal College for Women, Coimbatore from 11-01-2024.

#### **Workshop Attended:**

- ✓ DST & ACS Workshop organized by Bharathidasan University, Trichy, 9<sup>th</sup> December 2019.
- ✓ UGC-Sponsored Three Day workshop for scholars on Information Technology Organized by UGC-Human Resource development Centre, Bharathidasan University from 12<sup>th</sup> to 14<sup>th</sup> February 2018.
- ✓ Analytical Techniques for Research in Physics, Chemistry and Life sciences (ATRPCL-2018) on 9<sup>th</sup> March 2018.
- ✓ Analytical Techniques organized by American College Central Instrumentation Centre, American College, Madurai, 9<sup>th</sup> July 2020.
- ✓ Online Workshop on Nuances in Computational Chemistry organized by PG & Research department of Chemistry, Dwaraka Doss Goverdhan Vaishnav College, Chennai, From 2<sup>nd</sup> to 5<sup>th</sup> July 2020.
- ✓ Online Courses in Chromatography jointly organized by DIPAM foundation & Sheth M.N Science College, Patna between 7<sup>th</sup> to 16<sup>th</sup> May 2020.
- ✓ National Online Workshop Computational Chemistry –A Leeway to Theoretical Chemistry organized by the PG & Research Department of Chemistry, PGSR Krishnammal College for Women, Coimbatore in Collaboration with D.G. Vaishnav College, Arubakkam, Chennai from 27<sup>th</sup> to 29<sup>th</sup> July 2020.
- ✓ 2<sup>nd</sup> Three days online Workshop on Scientific Writing by the College of Fisheries Engineering, Nagapattinam from 24<sup>th</sup> to 26<sup>th</sup> July 2023.
- ✓ 2<sup>nd</sup> Three days online workshop on scientific writing organized by College of fisheries technology, Nagapattinam. On 24.07.2023 to 26.07.2023
- ✓ Workshop on Basics on Lab VIEW with Le Petit Evere Technologies on 19.11.2023.

#### **FDP, Quiz & Scientist Meet attended:**

- ✓ Five days National level online Faculty development / Certificate Program from 27<sup>th</sup> to 01<sup>st</sup> October 2021 organized by PG & Research department of Chemistry, Holy Cross College, Tiruchirappalli, Tamil Nadu.
- ✓ International Scientist meets on Computational chemistry & Biophysical chemistry held on

21<sup>st</sup> December 2020 organized by PG & Research department of Chemistry, Holy Cross College, Tiruchirappalli, and TamilNadu.

- ✓ Media Quiz 2020 organized by PG and Research Department of Visual Communication which was held on 30<sup>th</sup> and 1<sup>st</sup> June 2020.
- ✓ National Level Online Faculty Development Program on Chemistry is an era of change held from 13<sup>th</sup> to 16<sup>th</sup> July 2020 organized by Department of Chemistry, Ramakrishna College of engineering, Samayapuram, Trichy.
- ✓ A Five-Day National Level Faculty Development Programme on “Recent innovations in Technical Research & Teaching” from 1<sup>st</sup> to 5<sup>th</sup> August 2023 organized by Department of Computer Science, Bon Secours Arts and Science College for women, Dindigul.
- ✓ A Five-Day Faculty Development Programme organized by Internal Quality Assurance Cell from 05<sup>th</sup> to 09<sup>th</sup> June 2023 organized by Jamal Mohamed College, Trichy.
- ✓ Five Days International Level Online Faculty Development Program on “Artificial Intelligence in Chemistry: Current Trends and Future Perspectives” from 4<sup>th</sup> to 9<sup>th</sup> September 2023 organized by School of Physical Sciences, PG& Research Department of Chemistry, Holy Cross College, Trichy.
- ✓ A Five-Day National Level FDP on “Recent Innovations in Technical Research & Teaching” from 01.08.2023 to 05.08.2023 organized by Bon Secours Arts & Science College for Women, Dindigul.
- ✓ Five Days International Level Online FDP on Artificial Intelligence in Chemistry: Current Trends And Future Perspectives (AICCTFP-2023) from 04-09-2023 to 09-09-2023 Organised by School of Physical Sciences PG & Research Department of Chemistry Holy Cross College (Autonomous), Trichy.
- ✓ Six days FDP on Emerging Innovations in chemistry and chemical Technology (EICCT-2023) from 11.09.2023 to 16.09.2023 organized by Department of chemistry Arasu engineering College, Kumbakonam.
- ✓ National Level FDP on Art of writing Research paper and Proposal from 11-09-2023 to 15-09-2023 organized by Jamal Institute Management, Jamal Mohamed College Trichy.
- ✓ Five day FDP Advanced Materials for energy Applications from 9-10-2023 to 13-09-2023 organized by Sathya bama institute of Science and Technology.
- ✓ Six Day FDP on “Charging Ahead: Exploring Next-Generation Battery Technology” from 9-10-2023 to 14-10-2023 organized by Department of Chemistry, SRM Institute of Science and Technology, Ramapuram, Chennai
- ✓ Six days online FDP titled Recent advancement in smart materials for sustainable energy

applications from 20-11-2023 to 25-11-2023 organized by Sathya bama institute of Science and Technology.

- ✓ FDP on instrumentation of UV-Visible, FTIR and FT-Raman spectroscopy from 4-12-2023 to 8-12-2023 organized by Department of physics and chemistry, Jamal Mohamed College, Trichy.
- ✓ 5-day FDP on Advanced Characterization Techniques for Materials & Biology organized by Centre for Biomaterials, Cellular & Molecular Theranostics (CBCMT) from 11-12-2023 to 15-12-2023 organized by Vellore Institute of Technology (VIT), Vellore, India.
- ✓ A one -week FDP on Road map for Intellectual Property Rights from 08-01-2024 to 12-01-2024 organized by IPRC, IQAC and IIC of Jamal Mohamed College, Trichy.
- ✓ A five -day FDP on Inspire, engage and empower from 01-02-2024 to 06-02-2024 organized by Department of English Jamal Mohamed College, Trichy
- ✓ FDP on E-Content Development funded by DBT Star Scheme from 12-02-2024 to organized by Department of Mathematics Sri.G.V.G. Visalakshi College for Women, Udumalpet
- ✓ FDP in “Relevance of Ancient Indian Knowledge in the Contemporary Higher Education Scenario from 16-11-2023 to 22-11-2023 organized by V.V.Vanniaperumal College For Women, Virudhunagar and Jamal Mohamed College, Trichy.

#### **Webinars Attended:**

- ✓ International Webinar on Hyphenated Techniques in Detection of Smart Materials organized by Department of chemistry & Internal Quality Assurance Cell of D.P Bhosale College, Koregaon, Satara (MS), India in Collaboration with University of Berlin Germany on 11<sup>th</sup> July 2020.
- ✓ Three Day National Webinar on Chemistry in Circular Economy & Sustainability (CHEMinar-2020) from 29<sup>th</sup> to 31<sup>th</sup> July organized by Department of Chemistry, Madurai Kamaraj University, Madurai.
- ✓ National Level Webinar on Teaching with Technology held on 30<sup>th</sup> May 2020 jointly organized by the IQAC of Bhavan's Hazrimal Somani College of Arts and Sciences & Jayaramdas Patel College of Commerce & Management studies and Maharashtra College of Arts, Science and Commerce.
- ✓ Webinar on “Venturing Hackathons” by Mr. Yassin Xaviour, Software Developer & project Manager, Winner- Smart Hackathon, NEC Idea Challenge, Tamil Nadu student Innovators held on 15<sup>th</sup> June 2020 organized by Holy Cross College, Tiruchirappalli, and Tamil Nadu.
- ✓ Webinar series –I on the topic being a Smart Researcher held on 17<sup>th</sup> & 18<sup>th</sup> 2020, the



Department of Social Work, Holy Cross College (Autonomous), Trichy.

- ✓ National Webinar entitled Research Publication: Skills, Ethics & Misconducts organized by Department of Chemistry, Kumara Guru College of technology, Coimbatore held on 15<sup>th</sup> May 2020.
- ✓ Empowering Youth towards Sustainable Development of Environment –The role of Educational Institutions organized by Nature Club on July 4, 2020 KLE society Science & Commerce College, Kalamboli, Navy Mumbai, India.
- ✓ National Level Webinar on Intellectual property of rights organized by IQAC, Maharashtra College of Arts, Science & Commerce on 26<sup>th</sup> June 2020.
- ✓ Webinar entitled Sustainable Synthesis of Metal and Metal oxide Nanoparticles and their environmental remediation applications on 21<sup>th</sup> July 2020.
- ✓ Webinar on Experts Online organized by the Department of Chemistry, SRM Institute of Science and Technology, Ramapuram Campus, Chennai-89, in association with Association of Chemistry Teachers (ACT), Mumbai on 19<sup>th</sup> July, 2020.
- ✓ “International Webinar on Women in Science” organized by the Department of Chemistry, SRM Institute of Science and Technology, Ramapuram Campus, Chennai-89 in association with Association of Chemistry Teachers (ACT), Mumbai, on 28<sup>th</sup> July, 2020.
- ✓ 2<sup>nd</sup> Two Days National Webinar on Intellectual Property: Patentability, Process, and Commercial aspects organized by College of Fisheries Engineering, Nagapattinam from 27<sup>th</sup> to 28<sup>th</sup> July 2023.
- ✓ Two-day national level webinar on Preparedness towards implementation of NEP 2020 organized by J.K College of Science and Commerce from 15.09.2023 to 16.09.2023.
- ✓ International Seminar on “Innovations in Bacterial Signaling: Driving Forces in Bio hydrogen and Bio methane Production” jointly organized by the Department of Biotechnology, Institutional Innovation Council & Centre of Excellence in Life Sciences, PSGR Krishnammal College for Women, Coimbatore from 11-01-2024.

#### **Refresher Course:**

- ✓ Electroplating and Anodizing Principles and Practices [EMFT-1], organized by CSIR-Central Electrochemical Research institute, Karaikudi, from 27<sup>th</sup> to 1<sup>st</sup> December, 2017.
- ✓ Electroplating and Metal Finishing techniques organized by CSIR-Central Electrochemical Research institute, Karaikudi, from 8<sup>th</sup> to 12<sup>th</sup> February, 2021.

- ✓ Refresher Course on Selective Topics in Organic Chemistry Phase – IV” organized by Department of Chemistry, Sathya bama Institute of Science and Technology, Chennai on 2nd August, 2023 to 19th August, 2023.
- ✓ Professional Skills” organized by Microbiologists Society, India (Reg. No. MAH/4814/SAT on 06-12-2023 to 15-12-2023.
- ✓ Roadmap for Patent Creation organized by Swayam NPTEL on 27-01-2024 to 24-03-2024.

#### **Strengths and Skills:**

- ✓ Effective Listening and Creative thinking
- ✓ Team work and Good Time Keeper
- ✓ Good communication skills and Problem solving
- ✓ Creating a Positive Learning Environment
- ✓ Self-Motivated, hardworking, Adaptive person

#### **Personal Details:**

- ✓ Father Name: M. Habit Hussain
- ✓ Spouse Name: A. Shahbir Hussain
- ✓ Marital Status: Married
- ✓ Nationality: Indian
- ✓ Religion: Islam

#### **Declaration:**

I acknowledge that the information provided above is true and correct to the best of my ability and faith.

**Dr. H. ASIA THABASSOOM**