

**Dr. F. JANEETA PRIYA**

Assistant Professor

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E-mail: [janeetapriya@hcctrichy.ac.in](mailto:janeetapriya@hcctrichy.ac.in)**EXPERIENCE**

- From June 2015 to till date working as an **Assistant Professor**, PG & Research Department of Chemistry, **Holy Cross College** (Autonomous), Tiruchirappalli - 620 002.
- From June 2011 to April 2012 worked as an **Assistant Professor**, Department of Science and Humanities, **Imayam College of Engineering**, Kannanur, Thuraiyur.
- From June 2010 to April 2011 worked as a **PGT** in **Sri Bala Vidhya Mandhir Matriculation Higher Secondary School**, Koothur, and Tiruchirappalli.

**Total years of service form** UG - 10 + Years

PG - 8 + Years

M.Phil - 5 Years

**EDUCATIONAL QUALIFICATION (M.Sc., M.Phil., B.Ed., PhD)**

- ❖ **PhD** in Chemistry valued '**HIGHLY COMMENDED**', Holy Cross College, Trichy-2
- ❖ **M.Phil** in Chemistry, **(80%) (Distinction)** Holy Cross College, Trichy- 2
- ❖ **Masters** in Chemistry, **(70%)** St. Joseph's College, Trichy- 2
- ❖ **B.Ed, (79%)**, Indhira Ganesan College of Education, Trichy-2
- ❖ **Bachelor's** degree in Chemistry, **(72%)**, Holy Cross College, Trichy- 2

**SUBJECTS OF EXPERTISE**

Inorganic Chemistry, Green and Nano Chemistry, Environmental Chemistry and Food Chemistry.

## CORE COMPETENCIES

- ❖ Efficiency in teaching chemistry with ICT mode.
- ❖ Capable of designing lesson plans and E-contents to meet student's need and their requisites.
- ❖ Able to integrate the scientific knowledge with their applications through projects.
- ❖ High level of creativity, flexibility and adaptability.
- ❖ Evidence of potential for excellence in mentoring the students

## RESEARCH PROJECTS COMPLETED

- ❖ Centre for Research & Development Holy Cross Research Seed Grant (HCRSG), project entitled as "Factors Influencing the Efficiency and Extraction of Polyphenols from *Ocimum Sanctum* Seeds and its Industrial Application as Corrosion Inhibition" sanctioned on January - 2022.
- ❖ Centre for Research & Development Holy Cross Research Seed Grant (HCRSG), project entitled as "Mosquito Larvicidal activity of cost effective bio- synthesized Silver Nanoparticles using *Mentha piperita* extract against *Aedes aegypti*" sanctioned on November- 2018.

## AWARDS AND ACHIEVEMENTS

- ❖ **Dr.RADHA KRISHNAN AWARD** – 2024, Pudhiya Pathai Trust, Palakari Main Road, Warehouse bus stop,Thiruchirappalli, Tamil Nadu.
- ❖ **YOUNG RESEARCHER AWARD -2023** sponsored by InSc, International Publisher Membership India (2022-2023)
- ❖ **YOUNG ACHIEVER AWARD -2021** sponsored by INSTITUTE OF RESEARCH, Kerala, India
- ❖ **PROFESSOR C.N.R.RAO BEST YOUNG SCIENTIST AWARD**, sponsored by **TAMILNADU SCIENTIFIC RESEARCH ORGANISATION**, on 9<sup>th</sup> NACON 2019, 24<sup>th</sup> august 2019, Pudukkottai,T.N, india.
- ❖ **BEST PAPER AWARD** for the paper presentation in National Conference- Nano National summit- Current Trends and Future Perspectives [NNSCTFP-2019] 27<sup>th</sup> & 28<sup>st</sup> July 2019 Holy Cross College (Autonomous), Trichy-2.
- ❖ **BEST PAPER AWARD** for the paper presentation in National Conference- Recent

Development in Chemistry (NCRDC–2018), PG and Research Department of Chemistry, Jamal Mohamed College (Autonomous), Tiruchirappalli - 620020, 20<sup>th</sup> January 2018.

- ❖ **FIRST** in Presentation, Mother Foundress Day Celebration, **August 2017**, Holy Cross College, Trichy.2

## RECOGNITION/MEMBERSHIP

- ❖ **Life Member, InSc**, International Publisher Membership India **NO: 20234YRA12**
- ❖ **Life member** INSTITUTE OF RESEARCH, Kerala , India **NO: LM032107**
- ❖ **Fellow and Life Membership of Bose Science Society NO: M594/BSS/2019**

## BOOK PUBLISHED

- ❖ Lab Manual published by PG and Research department of Chemistry, Holy Cross College Trichy-2, under star college scheme (DST -Fist sponsored) -2021

## BOOK CHAPTER PUBLISHED

- ❖ **Book Name:** Challenges and Advances in Chemical Science, **Title:** *Gomphrena serrata* Leaf Extract as Corrosion Inhibitor and Reductant for the Synthesis of Copper Nanoparticles .Vol.5 (Ms. No.: 2021/BP/4278F), BP International book publisher. Chapter 1, Print ISBN: 978-93-91595-92-0, eBook ISBN: 978-93-91595-93-7, **2021-2022**.
- ❖ **Book Name:** Challenges and Advances in Chemical Science , **Title:** Anti-proliferative Effect on Breast Cancer Cell Line via Novel Biogenic Peptide Functionalized Silver Nanoparticles Synthesized from Aloin.Vol.8 , BP International book publisher Chapter 3,Print ISBN: 978-93-5547-807-8, eBook ISBN: 978-93-5547-808-5, **2021-2022**.
- ❖ **Book Name:** New Advances in Medicine and Medical Science, **Title:** Recent Advancement of Bio-inspired Nanomaterials and Its Antiurolithiatic Activity. Vol. 7, 151–165. <https://doi.org/10.9734/bpi/namms/v7/9824F>, **2022-2023**.
- ❖ **Book Name:** Current Developments in Biological Science **Title:** Innovative Srsio<sub>3</sub>/TiO<sub>2</sub> Photocatalysts For Efficient Solar Degradation Of Congo Red Dye, ISBN Number: 978-93-93622-73-0, October, **2024**.

## PAPER PUBLICATIONS

- ❖ Green Synthesis of Silver nanoparticles using aqueous extract of *Ficus Racemosa* Bark and its antimicrobial activity. World journal of Pharmacy and Pharmaceutical Sciences.V-5,I-5 2016,P-753-765,ISSN:2278-4357,Impact Factor:**6.041**
- ❖ Green Synthesis of Copper nanoparticles using aqueous extract of *Aegles Marmelos* Bark and its antimicrobial activity. World journal of Pharmaceutical Research.V-5,I-52016,P-872-883,ISSN:2277-7105,Impact Factor:**6.80**
- ❖ A comparative study of Inhibition efficiency of eco-friendly inhibitors *Aloe Barbedensis Miller* and *Aegle Marmelos* on the corrosion of mildsteel in 1M H<sub>2</sub>SO<sub>4</sub>. International journal of scientific and Engineering Research, vol-7, Issue 8, 2016, P.No -22. ISSN: 2229-5518.
- ❖ Phytochemical screening and green synthesis of silver nanoparticles using aqueous extract of *catharanthus roseus* stem bark. International journal of pharma science and research (IJPSR) volume- 8, page-46-51, 2017.
- ❖ Antifungal and antioxidant activity of microwave assisted green synthesis of silver nanoparticles using aloin derivative. The Pharma innovation journal, volume-6(9) 25-28, 2017.
- ❖ Microwave assisted synthesis of nickel nanoparticle using hydrazine hydrate and its antimicrobial activity. International journal of Chemtech research, vol- 10 no.10 pp 377-384, 2017.
- ❖ Microwave assisted synthesis of zinc oxide nanoparticle using hydrazine hydrate and its antimicrobial activity. International journal of Chemtech research, vol-10 no.9 pp 574-580, 2017.
- ❖ Comparative study on the synergistic action of differentially synthesized copper nanoparticles with *Escherichia coli* and *Staphylococcus aureus*. International research journal of pharmacy, vol-8 no.9 pp 85-90,2017.
- ❖ Cytotoxic effect of peptide functionalized silver nanoparticles synthesized from *aloin* on breast Cancer cell line, Asian Journal of Pharmaceutical and Clinical Research, Vol 12, Issue 2,170-175, 2019.
- ❖ *Gomphrena serrata* Leaf Extract as Corrosion Inhibitor and Reductant for the Synthesis of Copper Nanoparticles, Asian Journal of Chemistry, 31, No.10 (2019),pp-2306-2310- 2019

- ❖ Mosquito Larvicidal Activity Of Cost-Effective Bio-Synthesized Silver Nanoparticles Using Mentha Piperita Extract against *Aedes aegypti*, RASĀYAN Journal of Chemistry, Vol-13, (3), pp1964-1970,2020.
- ❖ Sustainable Synthesis of Gold Nanoparticles and its Antidiabetic Activity of *Anacardium Occidentale*, Oriental Journal Chemistry, Volume 37,(2)pp 374-379- 2021.
- ❖ A New Frontier Drug Development in Nanomedicine and Its Anti-Urolithiatic Activity of *Kalanchoe Pinnata*, Oriental Journal Chemistry, Volume 37,(2), pp 444-449- 2021.
- ❖ Anti-Urolithiatic Activity of Silver Nanoparticles of *Terminalia Chebula* Bark, Oriental Journal Chemistry, Volume 37,(1), pp 109-115 – 2021
- ❖ Corrosion Inhibition Activity of Isolated Flavonoid from *Andrographis echinoides* Leaves, Oriental Journal Chemistry, Vol.38,No.(5):Pg.1276-1283- 2022.
- ❖ In Vitro Antioxidant and Antimicrobial Activity of Isolated Flavonoid from the Methanolic Extract of *Spermacoce hispida* Leaves, International Journal of Zoological Investigations Vol. 8, Special Issue, 302- 311 (2022)
- ❖ Biogenesis of Metal Nanoparticles and its Potential Targeted Drug Delivery Systems for Urolithiasis, International Journal of Zoological Investigations Vol. 8, Spl 1, 23-28(2022)
- ❖ Apoptotic effect of reduced Graphene Oxide on MCF-7 Breast cancer cell line using *Asparagus Racemosus* roots, Research Journal of Biotechnology, Vol. 18 (11) November (2023).

## RESOURCE PERSON

- ❖ One day workshop on “Basic Laboratory Skills” 1<sup>st</sup> December 2017, Department of Chemistry, HolyCross College, Trichy-2
- ❖ AICUF organized a personality, and leadership skill development program 18<sup>th</sup> October 2022, for the UG first year. AICUFERS on the topic “Power of Positive Attitude”.
- ❖ Resource Person for the two days workshop on “Journey into Science -Exploration of Wonders” organized by PG & Research Department of Chemistry, Holy Cross College (Autonomous), Tiruchirappalli 620 002, on 30<sup>th</sup> and 31<sup>st</sup> May 2024.
- ❖ Resource Person for the workshop on “Preparation of Chemical reagents and Laboratory safety measures for newly recruited staff and nonteaching staff” organized by Holy Cross College, Trichy on 28<sup>th</sup> June 2024.

## REVIEWER OF JOURNALS

- ❖ Asian Journal of Research in Cardiovascular Diseases
- ❖ Journal of Pharmaceutical Research International
- ❖ Oriental Journal of Chemistry
- ❖ Uttar Pradesh Journal of Zoology
- ❖ International Journal of Research and Reports in Gynaecology
- ❖ Asian Journal of Biology
- ❖ Asian Journal of Medicine and Health
- ❖ Asian Journal of Pregnancy and Childbirth
- ❖ Asian Journal of Biotechnology and Genetic Engineering
- ❖ International Research Journal of Pure and Applied Chemistry
- ❖ Journal of Engineering Research and Reports
- ❖ Asian Journal of Research in Biochemistry
- ❖ Chemical Science International Journal

## REVIEWER OF BOOK CHAPTER

- ❖ Chemical Synthesis of Natural Products
- ❖ Current Innovations in Disease and Health Research
- ❖ Acute Appendicitis in Pregnancy: An Update

## ROLES AND RESPONSIBILITIES

- ❖ **AICUF** Service Oriented Course **Coordinator**
- ❖ **Dove Coordinator**
- ❖ Department **NAAC** Parameter Leadership and Governance representative
- ❖ Department **HRD Representative**.
- ❖ Department **RESCAPE Incharge**
- ❖ **M.Phil., Coordinator**
- ❖ Department **PG Coordinator**.
- ❖ Department **Sports Representative**
- ❖ **HRD** Certificate Course **Incharge**

- ❖ Department **Fine Arts Representative**
- ❖ Department **HCIIC representative**

### **E-CONTENT DEVELOPED**

- ❖ Structures of Proteins
- ❖ Introduction to Green Chemistry
- ❖ Conductometric titrations
- ❖ Chemistry of Soaps and detergents
- ❖ Basics of Photochemistry
- ❖ Introduction to Crystal Field Theory

**PAPERS PRESENTED IN CONFERENCES : 26**

**WORKSHOPS AND SEMINAR ATTENDED : 30**

**FACULTY DEVELOPMENT PROGRAMME ATTENDED : 15**

### **RESEARCH INTERESTS**

- ❖ Nanotechnology
- ❖ Biosensors
- ❖ Environmental Science
- ❖ Drug Delivery and its Applications
- ❖ Waste Water Management