

## FACULTY PROFILE



Dr. Badma Priya D. presently working as an Assistant Professor in the Department of Chemistry at Auxilium College (Autonomous), Vellore. She has 5 years of teaching and research experience. She completed her B.Sc., at Arcot Sri Mahalakshmi Women's college, M.Sc., at Sacred heart College, Thirupattur, M.Tech.,(Nanotechnology) at Karunya University, Coimbatore, and M.Phil., at D.K.M. Women's College, Vellore. She obtained her Ph.D. degree from Vellore Institute of Technology (VIT), Vellore in 2018. She has published more than 12 research articles in National/International journals and also published one Indian patent. Her research interests include Nanomaterials, Catalysis, Photocatalysis, Kinetics, Nano Metal and Metal Oxides.

1. Name: Dr Badma Priya D.
2. Designation: Assistant Professor of Chemistry
3. Qualification: M. Sc., M. Tech (Nanotechnology) M. Phil., Ph. D.,
4. Mobile number: +91 9677932244
5. E-mail id: badmapriyad@gmail.com / badmache@auxiliumcollege.edu.in
6. Teaching cum Research Experience: 5 years
7. Area of specialization: Nanomaterials
8. No. of Papers Presented in the National/ International/ Seminars/ Workshops/ Conferences: 10
9. **Indian patent published:**
  - ❖ One Indian research patent was granted for the title entitled as “Water Treatment System” / **Patent No.: 419900 / 31<sup>st</sup> Jan 2023.**
  - ❖ Patentee's – **D. Badma Priya**, R. Shankar, S. Murugavelh and B. Anand.

## 10. No of Publications

- ❖ Asharani, I.V., **Badma Priya. D** Sivagami, M., Thirumalai, D. Catalytic Activity of Size Tailored Gold Nanoparticles for the Reduction of Environmental Pollutant, 4-Nitrophenol: A Greener Approach was published in the Journal of Cluster Science, 2022, 33(3), 1193-1203. (IF – 3.447).
- ❖ **Badma Priya. D.**, Thirumalai, D., & Asharani, I. V., Influence of synthetic parameters on the enhanced photocatalytic properties of ZnO nanoparticles for the degradation of organic dyes: a green approach was published in the Journal of Materials Science: Materials in Electronics, 2021, 32(8), pp. 9956–9971. (IF – 2.779).
- ❖ **Badmapriya, D.**, Yousuf, S., & Enoch, I.V.M.V., Engineering nano-aggregates:  $\beta$ -cyclodextrin facilitates the thiol-gold nanoparticle self-assembly was published in the Journal of Nanostructures, 2019, 9(4), pp. 751–760. (Scopus indexed).
- ❖ **Badma Priya. D.**, & Asharani, I. V., Catalytic reduction of 4- nitrophenol using Actinodaphne madraspatna Bedd leaves mediated palladium nanoparticles was published in the journal of IET Nanobiotechnology, 2018 , 12(2), 116-126 (IF – 2.05).
- ❖ **Badma Priya. D.**, & Asharani, I. V., Size dependent catalytic activity of Actinodapne madraspatna Bedd leaves mediated silver nanoparticles was published in the Journal of Cluster Science, 2017, 28(4), 1837-1856. (IF – 3.447)
- ❖ **Badma Priya. D.**, & Asharani, I. V., Green synthesis of Iron oxide nanoparticles mediated by Actinodaphne madraspatna Bedd leaves was published in the journal of Asian Journal of Chemistry, 2017, 29(11), pp. 2446 - 2448. (Scopus indexed).
- ❖ **Badma Priya. D.**, & Asharani, I. V., Dye degradation studies catalysed by green synthesized Iron oxide nanoparticles was published in the International Journal of Chem Tech Research, 2016, 9(6), pp. 409 - 416. (Scopus indexed).
- ❖ **Badma Priya. D.**, & Asharani, I. V., Spectral and antimicrobial invetigation of some ternary schiff base transition metal complex was published in the International Journal of Chem Tech Research, 2014,6(1),pp 87-94. (Scopus indexed).

## 11. Conferences / Workshops Attended:

- ❖ “Size dependent catalytic studies of Actinodaphne madraspatna Bedd mediated Gold nanoparticles” was presented in the National conference on “Advances in Chemical Science and Technology (NCACST-17), KCG College of Technolgy, Chennai, February 2-3, 2017.
- ❖ “Catalytic reduction of 4- nitrophenol using Actinodaphne Madraspatna Bedd leaves mediated palladium nanoparticles” was presented in the 1st International Conference on “Nanoscience and Nanotechnolgy ( ICNAN 2016),VIT University, Vellore, October 19-21, 2016.
- ❖ “Catalytic studies on degradation of methyl orange by green synthesized magnetite nanoparticles” was presented in the International Conference on “Recent advances in Technology, Engineering and Science (ICRATES 2016), C. Abdul Hakeem College, Melvisharam, Vellore, July 27-28, 2016.
- ❖ “Dye degradation studies catalysed by green synthesized Iron oxide nanoparticles” presented in the National Symposium on Chemistry for Engineers (NSCE-2016), VIT University, Vellore, April 9, 2016.
- ❖ “Green Synthesis of Iron nanoparticles using piper betle leaves and its application as a catalyst for the degradation of methyl orange dye” presented in the National Conference on “ Challenges in Biomaterials Research ( NCCBMR’13),VIT University, Vellore, December 23-24, 2013
- ❖ “Synthesis, spectral and antimicrobial investigation of some ternary Schiff base transistion metal complexes” presented in the II National Conference on “Application of Analytical Tools in Chemical and Biological Sciences, DKM College, Vellore, October 4-5, 2013.
- ❖ “Nanomaterials –A Review” was presented in the National level Conference on “ Recent Developments in Medicinal and Green Chemistry, Karpagam University, Coimbatore, March 4-5, 2010
- ❖ Participated in “Reseach Workshop on Nanochemistry”, Karunya University, Coimbatoree, January 28-29, 2009.

- ❖ “Magnetic nanofluids for ultra high performance cooling” was presented in the National Conference on “Nanomaterials” Karunya University, Coimbatore, October 17-18, 2008.
- ❖ Participated in “UGC sponsored National level Seminar on “New trends in Nanochemistry” , Sacred Heart College, Vellore, August 25-26, 2006
- ❖ Participated in “One day Workshop on instrumental methods of analysis”, VIT University, Vellore, January 7, 2006.