

I. ACTIVITIES OF THE YEAR 2016-2017

I. Conference/ Seminars/Workshops/ Guest Lectures/ Training programmes conducted:

A guest lecture on “Quantum Mechanics And Computational Chemistry” was delivered by Dr. G. Saranya, Post Doctorate, Beijing Computational Science and Research Centre, Beijing, China on 13.10.2016.



DESCRIPTION

The Post Graduate Department of Chemistry has conducted a Guest Lecture on “Quantum Mechanics and Computational Chemistry” on 03/10/2016. As a mark of our tradition and culture, the dignitaries lighted the kuthuvillaku. Dr. K. Poonkodi, Assistant professor and Head, Department of Chemistry (PG) welcomed the gathering. The chief guest was honored with a shawl and memento. The guest speaker Dr. G. Saranya, Post Doctorate Beijing Computational Science and Research centre, China delivered her lecture. She introduced the basic quantum mechanics and how does the computational chemistry involved in solving the chemical problems. Her speech enlightened the students’ knowledge on various applications of computational chemistry. The Guest Lecture concluded with the vote of thanks.

II. Research Publications

International Refereed Journals

1. **K.Poonkodi** and S.Ravi. Phytochemical investigation and in vitro antimicrobial activity of *Richardia scabra*. **Bangladesh J Pharmacol** 2016; 11: 348-352. Impact factor (1.02). (Scopus, SCI).

2. **S. Vadivel**. Facile synthesis of novel $\text{CaFe}_2\text{O}_4/\text{g-C}_3\text{N}_4$ nanocomposites for degradation of methylene blue under visible-light irradiation, *Journal of Colloid and Interface Science* 2016; 480: 126–136.
3. **S. Vadivel** Biomolecule-assisted solvothermal synthesis of Cu_2SnS_3 flowers/RGO nanocomposites and their visible-light-driven photocatalytic activities, *The Royal Society of Chemistry* 2016; 6, 74177–74185.

4. **S. Vadivel.** Synthesis of Polyaniline/Graphene Oxide Composite via Ultrasonication Method for Photocatalytic Applications, *Mater. Focus* 2016; 5: 1–5.
5. **S. Vadivel.** Constructing novel Ag nanoparticles anchored on MnO₂ nanowires as an efficient visible light driven photocatalyst, *The Royal Society of Chemistry* 2016; 6, 61357–61366.
6. **S. Vadivel.** Solvothermal synthesis of BiPO₄ nanorods/MWCNT (1D-1D) composite for photocatalyst and supercapacitor applications, *Ceramics International* 2016; 1-10.

National Refereed Journals

1. **K.Poonkodi.** Phytoconstituents from *Richardia scabra* L. And its biological activities. *Asian J Pharm Clin Res*, 2016; 9(6), 168-171, (Scopus).
2. **K.Poonkodi.** Chemical composition of essential oil of *Ocimum basilicum* L. (basil) and its biological activities—an overview. *Journal of Critical Reviews*, 2016;3 (3),56-62.

III. FDP/ Conference/ Seminar/Workshop/ orientation programme attended

- ❖ Dr.K.Poonkodi and Dr. S. Vadivel attended one day state level workshop on “Recent trends in spectroscopy & polymer chemistry organized by Department of Chemistry, A.P.A.C(W), Palani on 08.01.2016.
- ❖ All the students attended one day state level workshop on “Recent trends in spectroscopy & polymer chemistry organized by Department of Chemistry,A.P.A.C(W), Palani on 08.01.2016.
- ❖ Dr.K.Poonkodi and 10 students from I-MSc Students has participated one day Hands on training on “Spectral and Chromatographic Techniques” organized by Department of Chemistry, Karpagam Academy of Higher education, Coimbatore on 09.02 2016.
- ❖ Mrs.K.Vimaladevi and Ms.R.Mini has participated three days “Faculty Orientation Programme” on 01.09.2016 to 03.09.2016 at NGM College, Pollachi.