

Faculty Profile



Name: Dr. KARIPEDDI RAMAKRISHNA

Designation: RESEARCH PROFESSOR

Teaching Areas: Physical Chemistry and General Chemistry

Research Interests:

Kinetics and Mechanisms of reactions in Micelles and Reverse Micelles, Analytical and environmental applications of Micelles, Green Chemistry (Cloud Point Extraction, Adsorptive Micellar Flocculation and Micellar Liquid Chromatography), Development and validation of analytical methods for the estimation of drugs, Computational Chemistry - Electronic Structure Calculations

Education:

- Ph.D. – Andhra University, Visakhapatnam 1989
- M.Sc.- Agra University, Agra 1983

Select Publications:

Research Guidance: Ph.D. – 28 M.Phil. – 7 Publications: ~ 170

- Development and validation of an LC-MSMS method for the quantitation of pacritinib; application of kinetics in rabbits, Phani Kumar Sunkara, Sreedhara Chaganty, **K. Ramakrishna**
Journal of Pharmacological and Toxicological Methods (2024- in Press)
<https://doi.org/10.1016/j.vascn.2024.107547>
- AN LC-ESI-MS/MS method development and validation for the quantification of Infigratinib in biological matrices Phani Kumr Sunkara, Sreedhara Chaganty, **K. Ramakrishna** Int J App Pharm, Vol 16, Issue 1, 2024, 88-93
- A novel UPLC – PDA method for simultaneous determination of hydroquinone, oxybenzone and octinoxate: An in-vitro study Ram Kumar Gummaluri and **Ramakrishna Karipeddi** Kuwait Journal of Science 50 (2023) 282–289
DOI: 10.1016/j.kjs.2023.02.026

Funded Projects:

- Analytical applications of micelles, an organized media (2013-17) UGC (10.06 L)
- Micellar Effects on some reactions of Biological Interest (2001-2004) UGC (3.4 L)

Patents Published:

- Novel- 5-sulfonamide- pyridine-2,4(1H, 3H)-dione derivatives as high active anti- HIV agents, B. V. Sasidhar, K. Ramakrishna and Girish Dixit 3933/CHE/2014
- Novel small molecules of 5-sulfonamide-pyrimidine-2,4(1H,3H)-dione derivatives as anti-HIV agents. B. V. Sasidhar, K. Ramakrishna 5135/CHE/2015