

## Faculty Profile

**Name: Dr. Pratik K. Jagtap**

**Designation:** Assistant Professor-Chemistry (Faculty of Science and Technology), ICFAI University, Raipur

**Teaching Areas: Inorganic Chemistry, Analytical Chemistry, Engineering Chemistry, Environmental Science**

**Research Interests:** Analytical Chemistry, Metal and Metal Oxide Nanoparticle Synthesis for Novel applications, Pharmacokinetic studies of Drugs, Biodegradable polymers, Phytochemical Analysis.



### **Education:**

- PhD in Chemistry, National Institute of Technology, Raipur Chhattisgarh (2018)
- M.Sc. Applied Chemistry, School of Chemical Sciences, Devi Ahilya Vishwavidyalaya, Indore M.P.
- B.Sc. Chemistry, Bangalore University Bangalore, Karnataka

**Patents:** 01 Monitoring and forecasting of environmental pollution using internet of things and artificial intelligence (Indian Patent) March 2023

### **Research / Selected Publications :**

1. **Pratik Kumar Jagtap**, Pharmacokinetic determination and analysis of Nortriptyline based on GC-MS coupled with HF-DDSME technique. *Bioanalysis, SCI Journal (IF 2.67)* Vol.10(3), 143-152. 2018.
2. **Pratik Kumar Jagtap**, Development of novel dynamic drop-to-drop microextraction coupled with gc-ms for the trace level screening of phenothiazine drug in human plasma samples.. *Indian Journal of Pharmaceutical Education and research*. Vol.52(4), S23-S28. 2018. **SCI Journal**
3. **Pratik Kumar Jagtap**, Isolation and quantitative determination of Terpenoids and Asiaticosides from the leaves of Centella asiatica using GC-MS for their antidepressant activities. *Research Journal of Chemistry and Environment*. Vol. 24 (3) March (2020) **Scopus Journal**
4. **Pratik Kumar Jagtap**, Facile Eco- compactable Design for the Synthesis and Characterization of Silver Nanoparticles. *Nanoscience & Nanotechnology-Asia, SCI*, 2020, 10.
5. **Pratik Kumar Jagtap** ,Microencapsulation of Cassia Fistula Flower Extract with Chitosan and its Antibacterial Studies. in *Current Drug Delivery*. Bentham Sciences Volume 19, Issue 9, 2022. IF-2.565 **SCI**.

### **INTERNATIONAL BOOK CHAPTER**

1. Micro Extraction: An Eco-compatible Extraction Technique. Pratik Kumar Jagtap, PhD. Book title *Advances in Chemistry Research. Volume 59*. Nova Science Publishers, Inc. 415 Oser Avenue, Suite N Hauppauge, NY 11788 USA.
2. MXenes: From Research to Emerging Applications. Pratik Kumar Jagtap, Accepted for Publications in **CRC Press, Taylor and Francis 2023**