



Image: 270 X 271 Pixels

Dr. K. Santhosh Kumar,

Associate Professor, Chemistry

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Education

PhD (2011) – MS University of Baroda

Thesis titled “Pre-concentration and Quantitative Determination of Pharma Compounds Present in Water”

MSc (2001) – NIT, Rourkela

BSc (1999) – Utkal University, Odisha

Key Skills

Dr. K. Santhosh Kumar is capable of providing comprehensive solutions to industry and other government bodies in the following areas:

1. Analytical method developments for qualitative and quantitative analysis of pharmaceutical compounds specially methods based on chromatography.
2. Environmental solutions particularly waste water treatment and analysis of water quality parameters.
3. Content development and course designing for academic institutes.

Background

Joined GSFC University in June 2018

Scholarship and Accomplishments

Dr. K. Santhosh Kumar is a proficient researcher. Broadly defined, Kumar’s research interests are in analytical and environmental chemistry, with a special focus on waste water treatment and its analysis. He is particularly interested in analysis of trace organic molecules present in water, and how simple chemical techniques can be used to identify and quantify analytes at low concentration, so that methods can be cost effective. Dr. Kumar developed a novel method for pre-concentration of drugs present in waste water which was part of his Doctoral research. He has been awarded a Research Fellowship of University Grants Commission, under “Research Fellowship in Science for Meritorious Students” scheme to carry out his research work. His doctoral research has been nominated for prestigious “Dr. Vikram Sarabhai Award” 2010 for Eminent Scientists in the field of

Environment by Gujarat Council on Science and Technology, Department of Science & Technology, Government of Gujarat.

Dr. Kumar has a teaching experience of more than 20 years wherein he has served as Faculty in the Faculty of Science, MS University of Baroda, Navrachana University and then, GSFC University.

He teaches Basic Chemistry and Analytical Chemistry to science students at M.Sc. and B.Sc. Program. He exposes students to science fundamentals and has chosen teaching to as a way to conduct research in education. Recipient of the Best Teacher Award at Navrachana University, he is greatly enthused by the teaching-learning process and is highly inspired by work of students of GSFC University. He has guided many students at undergraduate level for their research work. At present, working professionals from different industries like IPCA Laboratories Pvt. Ltd., Glenmark and Kashivbioscience are doing doctoral research under Dr. Kumar.

Dr. Kumar has many publications with most of them being published in Journals with good impact factor and of International repute. One of the major publications is published in journal, *Analytical Letters*. His paper titled "Pre – concentration and Quantitative Determination of Venlafaxine HCl Present in Water, and was highly appreciated at 2013 Eastern Analytical Symposium & Exposition, New Jersey, USA.

Dr. Kumar has worked as Co. PI on a project entitled "E-Content generation for undergraduate Biochemistry students" granted by Ministry of Human Resource Development, Government of India under NMEICT scheme and Consultancy projects Sponsored by Institute of Infrastructure, Technology, Research and Management (IITRAM) Ahmedabad, Government of Gujarat. Dr. Kumar also undertaken an GSFC Ltd. Project related to effluent. Dr. Kumar, is an active member of Indian Society of Analytical Scientists, Baroda Chapter. Dr. Kumar is a member of Governing Council GSFC Science Foundation.

Most Three Notable Publications

1. Evaluation, Method Development, and Validation for Content Determination of Potential Genotoxic Impurities (PGIs) at the TTC Level in Telmisartan API. K. Santhosh Kumar *et al.* *Org. Process Res. Dev.*, 2021, 25, 6, 1391–1401.
2. Pre – concentration and Quantitative Determination of Esomeprazole Magnesium Present in Water. K. Santhosh Kumar *et al.*, *Analytical Letters*, 2010, 43: 1427 – 1433.
3. Identification and Characterization of a New Process Related Impurity in Terbutaline Sulfate by Accurate- Mass Q- TOF LC/MS/MS and NMR. *Chromatographia*, 2021, 84(4):1 – 11.