



Composite Materials for Water Purification

Guest Editors:

Prof. Dr. Pankaj Attri
chem.pankaj@gmail.com

Prof. Dr. Rama Rao Karri
kramarao.iitd@gmail.com

Prof. Dr. Sushil Kumar Kansal
sushilkk1@gmail.com

**Prof. Dr. Janardhan Reddy
Koduru**
reddyjchem@gmail.com

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Message from the Guest Editors

Water pollution is one of the most serious problems worldwide due to various toxic contaminants. Numerous technologies, namely, ion exchange, chemical precipitation, adsorption, coagulation–flocculation, membrane filtration, flotation, and electrochemical methods, are used to treat wastewater. However, we are not able to overcome this problem. In the past few years, nanotechnology has gained wide attention in wastewater treatment. In this Special Issue, we will focus on the synthesis and application of various composite materials (including nanocomposites) for water purification. Specifically, we will emphasize the use of bionanocomposites for water purification. Bionanocomposites are an important class of hybrid materials, comprised of bio components, biopolymers, and inorganic solids. In recent years, bionanocomposites have attracted increasing interest not only from the natural sciences but also from materials chemists and engineers. The main aim of this Special Issue is to collect research on the synthesis and structure/texture characterization of composite materials, and on their application in water and wastewater treatment perspectives.

