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BIOGRAPHY

Shrikaant Kulkarni holds MSc, MPhil, PhD in Chemistry and has been in teaching and research for more than 30 years. Currently he is working in Vishwakarma Institute of Technology, India as senior faculty of Chemistry. He has over 70+ publications; four book chapters published by reputed international publishers, four books in Engineering Chemistry as a co-author, and have been serving as an Editorial Board Member for many reputed international journals.

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HYDROGEL SYNTHESIS FOR DYE AND HEAVY METAL REMEDIATION

Hydrogels are the three dimensionally cross-linked (chemically or physically) polymeric networks which can retain huge amount of water without getting dissolved in it. The cross-linked structure of hydrogels can be used for the remediation of organic and inorganic contaminants from the industrial waste streams apart from applications in many other areas. This paper presents the synthesis of Poly (Acrylamide-co-Acrylic acid) hydrogel using solution polymerisation technique and the effect of variation in concentration of cross-linker initiator, strengthening agent, monomer ratio on the consistency and behavior of hydrogel in terms of its hygroscopicity and dye remediation was examined which show encouraging results and hold lot much of promise and potential for treatment of waste in industry.