

Synthesis and characterization of polymer nanocomposites

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Polymer nanocomposites of PMMA and PBMA were synthesized by incorporating PbO nanoparticles biosynthetically. The main agenda was to enhance the thermal capacities of polymer. Also to incorporate medicinal properties and catalytic nature in polymer. Various techniques like TG/DTA confirmed the enhanced thermal efficiencies of polymer. All the procedures were strictly green in nature. TEM/SEM images confirmed the synthesis of nanoparticles and polymer nanocomposites.

Biography

Adya Jain MSc, MPhil, PhD, FICS is an Organic Chemist specialized

in Nanoporous materials Synthesis, Catalysis, Material Science and Nanotechnology. She also specialized in the fields of synthetic organic chemistry, medicinal chemistry and green chemistry research. She has twenty publications i.e. research papers, review articles, books, book chapters in peer-reviewed journals and publishers of international repute including Elsevier. She serves as a reviewer and Editorial Board Member of two research journals. Presently working as Assistant Professor in the Department of Chemistry, MRK Educational Institutes, Rewari, Haryana dealing with practical's and classes of M.Sc., B.Sc. and B. Tech. students. Also she worked as Research Assistant at Department of Conservation, National Museum Institute, New Delhi. She has been awarded by Young Scientist Award 2018 by Indian Chemical Society.

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