



Journal of Nanomaterials

Special Issue on
**Polymer Nanocomposites in Environmental
Remediation**

CALL FOR PAPERS

Knowledge and understanding of nanomaterials and their nanocomposites have led to the development of highly efficient materials and provide a novel path for the development of new technologies. The unique mechanical, thermal, electrical, optical, or catalytic properties of nanocomposites are making them even more attractive as multifunctional materials for the future, with potential applications in environmental protection through catalytic degradation, adsorptive removal, and detection of contaminants. Polymer nanocomposites integrate the advantages of both nanoparticles and polymers and offer the expansion of novel and cost-effective technologies for environmental remediation.

This Special Issue covers all the aspects of the production of polymer nanocomposites and their physicochemical studies as well as the applications for treatment of contaminants, pollutant sensing and detection, and green chemistry.

We invite authors to contribute with original research articles as well as review articles that will stimulate the continuing efforts to environmental nanotechnology. We are particularly interested in articles describing new synthesis of functional nanomaterials and their polymer composites for the application in the green technology, catalysis, pollution control, and water treatment.

Potential topics include, but are not limited to:

- ▶ Recent developments in the synthesis and functionalization of nanocomposites for environmental remediation
- ▶ Electrical, thermal, optical, catalytic, and mechanical properties of polymer composites
- ▶ Latest technologies for fabricating various types of composites, design, and analysis
- ▶ Nanocomposites in the fields of energy storage, hydrogen generation, biodegradation, and photodegradation
- ▶ Role of nanocomposites in the pollution control

Authors can submit their manuscripts via the Manuscript Tracking System at <http://mts.hindawi.com/submit/journals/jnm/nee/>.

Lead Guest Editor

Pashupati Pokharel, Hannam University, Daejeon, Republic of Korea
ppokharel@gm.hannam.ac.kr

Guest Editors

Bishnu P. Bastakoti, University of Sydney, Sydney, Australia
bishnu.bastakoti@sydney.edu.au

Bishweshwar Pant, Chonbuk National University, Jeonju, Republic of Korea
bisup@jbnu.ac.kr

Malay Pramanik, National Institute of Material Science, Tsukuba, Japan
pramanik.malay@nims.go.jp

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