

Special Issue on
Emerging Applications of Stimulus Responsive Polymeric Nanocomposites

CALL FOR PAPERS

Stimulus responsive nanomaterials that have an ability to change shape, phase, wettability, and mechanical stiffness on application of external stimuli have attracted substantial academic and industrial interests. On application of external stimuli, these materials undergo conformational and chemical changes, which influence the physical properties of the materials. Interest in these stimulus responsive nanomaterials has intensified in the last few years due to the potential of using them for wide range of applications including drug delivery, tissue engineering, coating, textiles, and microelectromechanical systems. An in-depth knowledge and understanding of the stimuli-responsive behavior can lead to development of high performance stimuli-responsive polymeric nanocomposites. The research in this field presents numerous opportunities in processing, fabrication, design, and application of stimuli-responsive materials.

This special issue is devoted to covering broad range of research activities, findings, and recent progress on all aspects of stimuli-responsive materials. Particular emphasis is put on multifunctional and emerging applications of stimulus-responsive nanomaterials. Through this special issue, we encourage and invite researchers to contribute original research as well as review articles in this field of research.

Potential topics include but are not limited to the following:

- ▶ Synthesis/fabrication of stimulus-responsive polymer nanocomposites
- ▶ Stimulus responsive surfaces and interfaces
- ▶ Stimuli-controlled self assembly and patterning of nano-/microentities
- ▶ Characterization of stimulus-responsive behavior of polymer nanocomposite
- ▶ Emerging applications of stimulus-responsive nanomaterials
- ▶ Self-healing and shape memory nanomaterials and nanocomposites

Authors can submit their manuscripts through the Manuscript Tracking System at <https://mts.hindawi.com/submit/journals/jnm/easr/>.

Papers are published upon acceptance, regardless of the Special Issue publication date.

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