

Indexed in: PubMed



an Open Access Journal by MDPI

# **Responsive Polymer Nanoparticles and Nanocomposites**

Guest Editors:

### Dr. Pierfrancesco Cerruti

Institute for Polymers, Composites and Biomaterials (IPCB-CNR), Via Campi Flegrei 34, 80078 Pozzuoli, Italy

#### Dr. Anna Calarco

Research Institute on Terrestrial Ecosystems (IRET)—CNR, Via Pietro Castellino, 80131 Naples, Italy

### Prof. Dr. Veronica Ambrogi

Department of Chemical, Materials and Production Engineering, University of Naples Piazzale Tecchio, 80125 Naples, Italy

Deadline for manuscript submissions:

closed (31 August 2021)

## **Message from the Guest Editors**

This Special Issue is focused on the most recent advances in the synthesis, characterization, and applications of polymer-based responsive nanomaterials nanocomposites, whose properties and functions can be controlled, even remotely, by external stimuli. The trigger signal can be induced by physical (temperature, mechanical forces, and electromagnetic radiation), chemical (pH, ionic strength, and solvent), or biological (enzymes and receptors) changes in the external environment. Progress in this field is rapidly expanding, and nanostructured systems based on responsive materials hold great promise for a breakthrough in materials science, for environmental, health, and biomedical applications.

Nonetheless, in this Thematic Issue, we also invite contributions dealing with responsive polymer-based nanostructured materials designed for advanced structural applications, including self-healing and shape memory materials.









CITESCORE 7.4

an Open Access Journal by MDPI

### **Editor-in-Chief**

### Prof. Dr. Shirley Chiang

Department of Physics, University of California Davis, One Shields Avenue, Davis, CA 95616-5270, USA

# **Message from the Editor-in-Chief**

Nanoscience and nanotechnology are exciting fields of research and development, with wide applications to electronic, optical, and magnetic devices, biology, medicine, energy, and defense. At the heart of these fields are the synthesis, characterization, modeling, applications of new materials with lower nanometer-scale dimensions, which we call "nanomaterials". These materials can exhibit unusual mesoscopic properties and include nanoparticles, coatings and thin films, metalorganic frameworks, membranes, nano-alloys, quantum dots, self-assemblies, 2D materials such as graphene, and nanotubes. Our journal, Nanomaterials, has the goal of publishing the highest quality papers on all aspects of nanomaterial science to an interdisciplinary scientific audience. All of our articles are published with rigorous refereeing and open access.

### **Author Benefits**

**Open Access:** free for readers, with article processing charges (APC) paid by authors or their institutions.

**High Visibility:** indexed within Scopus, SCIE (Web of Science), PubMed, PMC, CAPlus / SciFinder, Inspec, and other databases.

**Journal Rank:** JCR - Q1 (*Physics, Applied*) / CiteScore - Q1 (*General Chemical Engineering*)

### **Contact Us**