Special Issue

Stimuli Responsive Materials

Message from the Guest Editor

Recent technological advances in the field of polymer sciences revealed exciting new applications based on finely-engineered smart materials which are able to change their properties in a predictable manner when perturbated by specific stimuli. These materials can indeed modify their physicochemical state when stimulated with light, heat, chemical environment, magnetic fields, etc. In turn, such perturbations induce a specifically engineered response, thus allowing the development of sensors, actuators, self-healing artefacts, artificial tissues, membranes, and smart optical responsive systems. Therefore, this is a highly interdisciplinary topic that merges fundamental and applied sciences. This Special Issue is devoted to original research and reviews covering any aspect of the design, computation, fabrication, response mechanisms, and applications of stimuli-responsive polymers, molecular systems, and inorganic and composite materials.

Guest Editor

Dr. Paola Lova

Department of Chemistry and Industrial Chemistry, Università degli Studi di Genova, Via Dodecaneso 31, 16146 Genova, Italy

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Applied Sciences
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
applsci@mdpi.com

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32, 20133 Milano, Italy

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