Special Issue

Synthesis, Properties and Applications of Functional Polymers

Message from the Guest Editors

This Special Issue will focus on advances in functional polymers preparation, based on their direct synthesis and chemical modification. Functional organic polymers are applied in many areas, such as solid-phase organic synthesis, separation, chromatography, adsorbents, ion exchangers, drug-delivery systems, sensors, catalysts, membranes, and templates. Each application requires customized properties in the polymer, including the form and size of particles and their chemical compositions. The prospective applications of polymer functionality are especially considered. Functionality can be introduced into the polymer network by applying functional monomers that can also play the role of crosslinking agents. A more challenging route of polymers functionalizing is chemical post-modification using reactive groups present in their structure. Applying the grafting to or grafting from approach, the surface of polymers can also be modified by the other types of polymers. In this Special Issue, original articles, reviews, mini-reviews, and short communications covering the most recent advances in the preparation, applications, and characterization of functional polymers are welcome.

Guest Editors

Dr. Marta Grochowicz

Department of Polymer Chemistry, Institute of Chemical Sciences, Faculty of Chemistry, Maria Curie-Sklodowska University in Lublin, M. Curie-Sklodowska Sq. 3, 20-031 Lublin, Poland

Dr. Magdalena Sobiesiak

Department of Polymer Chemistry, Institute of Chemical Sciences, Faculty of Chemistry, Maria Curie Sklodovska University in Lublin, Lublin, Poland

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

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Materials (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

Editor-in-Chief

Prof. Dr. Maryam Tabrizian
1. Department of Biomedical Engineering, Faculty of Medicine and Health Sciences, McGill University, Montreal, QC H3A 2B6, Canada
2. Faculty of Dentistry and Oral Health Sciences, McGill University, 3640 Rue University, Montreal, QC H3A 0C7, Canada

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