

Special Issue

Smart Polymers: Stimulus-Responsive Properties and Their Biomedical Applications

Message from the Guest Editors

Polymer science has expanded its interest toward the development of smart materials capable of stimulus-responsive behavior. These polymers have an ability to detect specific clues (charge, pH, heat, light, ultrasound, magnetic /electric field, etc.) and accordingly respond by changing their specific physicochemical properties, acting as excellent stimuli-responsive materials in several fields of engineering.

This Special Issue will focus on the synthesis, characterization, applications and processing of these biomaterials. We are also very interested in the safety and life cycle of these polymers and products made out of them. Potential topics include, but are not limited to, the following:

Synthesis, processing and characterization of smart biomaterials;

- Piezoelectric biomaterials;
- Electroactive biomaterials;
- Thermo- and pH-sensitive biomaterials;
- Mechanically sensitive biomaterials;
- Glucose-sensitive biomaterials;
- Photosensitive biomaterials;
- Magnetically sensitive biomaterials.

Guest Editors

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Message from the Editor-in-Chief

Since its foundation in 2009, *Polymers* has developed into an internationally renowned, extremely successful open access journal. The editorial team and the editorial board dedicatedly combine open-access publishing and high-quality rigorous peer reviewing. The performance of the journal has proven this strategy to be well-suited and highly successful. This is reflected in the increasing impact factor of *Polymers*, the most recent one being 4.9.

I would like to invite you to contribute to the success of the journal by sending us your high quality research papers. We would be pleased to welcome you as one of our authors.

Editor-in-Chief

Prof. Dr. Alexander Böker

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