Special Issue

Advances and Applications of Molecularly Imprinted Polymers

Message from the Guest Editor

Polymers are materials that impress scientists for their unique properties and array of uses in all aspects of life, recent years having witnessed great progress in their manufacture. There are various types of polymers, such as biopolymers, polymer composites, polymer nanocomposites, polymer blends, etc. Smart polymers are one of the most important modern polymer products, due to their ability to sense changes that occur in their surroundings, such as a change in temperature, humidity, pH, etc. Molecularly imprinted polymers (MIPs) are considered the most important type of smart polymer, benefitting from artificial receptors for target molecules, where their synthetic receptors imitate the function of natural antibodies and enzymes, as well as their mode of action and recognition ability. They can be used in several applications, such as in sensors, membranes, drug delivery, etc., with particular interest in designing smart MIPs. The intelligence of these polymers stems from their response to external stimuli, such as temperature, pH, biomolecules, and magnetic fields, which induced more advanced applications for MIPs.

Guest Editor

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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 4.7.

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

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