



Advances and Applications of Molecularly Imprinted Polymers

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Message from the Guest Editor

Dear Colleagues,

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.





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