Special Issue

Molecularly Imprinted Polymers—Molecular Recognition

Message from the Guest Editor

The most prominent strategy in modern chemistry focuses on molecular recognition for molecules and ions but also supramolecular complex systems. Analytical applications for MIPs are obvious; commercially, progress is made especially for solid phase extraction to guarantee a selective enrichment by sample preparation. Further straightforward developments are the design of separation materials for HPLC via MIPs. More chances arise for MIP design as coatings for sensors. Thus, lean molecules; polymer particles up to viruses and bacteria; and other cells can be adhered to MIPs. In this way, synthetic antibodies can be realized. Even catalytic MIPs which imitate antibodies and enzymes are of increasing interest. The binding of molecules and particles to MIPs makes it possible to design selective delivery systems, especially for drugs.

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