

Handbook of Molecular Imprinting: Advanced Sensor Applications

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Molecular imprinting focuses on the fabrication of an artificial receptor with perfect molecular recognition abilities. It has attracted a great deal of scientific attention because of the enormous opportunities it opens in the fields of separation, catalysis, and analysis. The advantages of the molecular imprinting enable to target a wide class of substances ranging from small molecules to big conglomerates, such as proteins or even cells. In recent years, sensor applications based on molecular imprinting have started to attract greater attention because of the easy creation of robust receptor sites with high specificity and sensitivity toward a target compound.

A collection of contributions from distinguished experts, **Handbook of Molecular Imprinting: Advanced Sensor Applications** provides a comprehensive overview on the specific challenges of molecular imprinting in sensor applications. It covers various molecular imprinting approaches. As a result, a perspective of future device ensembles for sensing is acquired. The text lays particular emphasis on fundamental aspects as well as novel ideas in the context of sensor applications. It also highlights the operation principles of various sensor transducers that are generally employed in combination with molecular imprinting recognition elements.

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Review

"This book represents an extensive collection of essential fundamentals of molecular imprinting and state-of-the-art technologies of its sensor applications. It describes various bio- and chemo-sensing methods using molecular imprinting and will be of great interest to students and researchers in chemistry, physics, and materials science."

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"Sensors that memorize the shape and size of molecules can detect all targets. Such an ultimate concept of sensing has been realized by molecularly imprinted sensors. This handbook excellently presents the features of these sensors."

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