



Molecular and Ionic Recognition with Imprinted Polymers (ACS Symposium Series)

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This volume reviews the theory, preparation, and applications of imprinted polymers in the detection, determination, and separation of important molecular and ionic species.

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Editorial Review

Review

"Described as the world's first book on the rapidly growing field of imprinted polymers . . . The book's first 22 chapters summarize the most recent information on the preparation of imprinted polymers and their applications in the recognition of a variety of molecular and ionic species. . . . The chapters in [the remaining] section focus primarily on the applications of imprinted polymers in the determination and separation of such diverse species as amino acids, drugs, herbicides, metal ions, and steroids. . . . With its descriptions of imprinted polymer technology, say the editors, this book provides state-of-the-art information for both the novice and the practitioner. It is intended as a resource for a variety of scientists and engineers, including analytical chemists, biochemists, chemical engineers, clinical chemists, pharmaceutical scientists, polymer scientists, and separation scientists."--*Plastics Engineering*

"From an April 1997 conference in San Francisco, 22 papers discuss a new approach to developing synthetic molecules that can mimic natural ones in recognizing other molecules. They introduce the two major types of polymer imprinting, describe the overall status of the field and general principles for preparing the polymers, and summarize applications. Then they survey molecular and metal-ion recognition with organic-based polymers and recognition with inorganic-based polymers. Specific topics include important considerations in designing receptor sites using non-covalent imprinting, chiral ligand exchange adsorbents for amines and un-derivatized amino acids, preparing metal-ion imprinted resins using complexation at the aqueous-organic interface, and recognition over footprint cavities."--*SciTech Book News*

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