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Titolo	Imaging of Foreign Bodies / Antonio Pinto, Luigia Romano, Editors
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Titolo	Hydrogen Bonded Supramolecular Structures // edited by Zhan-Ting Li, Li-Zhu Wu
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 2015
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Disciplina	541.226
Soggetti	Organic chemistry Polymers Crystallography Optical materials Electronic materials Organic Chemistry Polymer Sciences Crystallography and Scattering Methods Optical and Electronic Materials
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Nota di bibliografia	Includes bibliographical references at the end of each chapters.

Nota di contenuto

Hydrogen Bonding Motifs: New Progresses -- Understanding of Non-covalent Interactions Involving Organic Fluorine -- Hydrogen Bonding in Supramolecular Crystal Engineering -- Hydrogen Bonding-Mediated Self-assembly of Aromatic Supramolecular Duplexes -- Hydrogen Bonding-Driven Anion Recognition -- Formation of Hydrogen-Bonded Self-Assembled Structures in Polar Solvents -- Hydrogen Bonded Capsules: Chemistry in Small Spaces -- Hydrogen Bonded Organic Nanotubes -- H-Bonding-Assisted One-Pot Macrocyclization for Rapid Construction of H-Bonded Macrocyclic Aromatic Foldamers -- Hydrogen-Bonded Supramolecular Polymers.

Sommario/riassunto

This book covers the advances in the studies of hydrogen-bonding-driven supramolecular systems made over the past decade. It is divided into four parts, with the first introducing the basics of hydrogen bonding and important hydrogen bonding patterns in solution as well as in the solid state. The second part covers molecular recognition and supramolecular structures driven by hydrogen bonding. The third part introduces the formation of hollow and giant macrocycles directed by hydrogen bonding, while the last part summarizes hydrogen bonded supramolecular polymers. This book is designed to bring together in a single volume the many important aspects of hydrogen bonding supramolecular chemistry and will be a valuable resource for graduates and researchers working in supramolecular and related sciences. Zhan-Ting Li, PhD, is a Professor of Organic Chemistry at the Department of Chemistry, Fudan University, China Li-Zhu Wu, PhD, is a Professor of Organic Chemistry at the Technical Institute of Physics and Chemistry, Chinese Academy of Sciences, China.
