

1. Record Nr.	UNINA9910298612003321
Titolo	Hydrogen Bonded Supramolecular Materials // edited by Zhan-Ting Li, Li-Zhu Wu
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 2015
ISBN	3-662-45780-6
Edizione	[1st ed. 2015.]
Descrizione fisica	1 online resource (238 p.)
Collana	Lecture Notes in Chemistry, , 0342-4901 ; ; 88
Disciplina	546.2
Soggetti	Optical materials Electronic materials Organic chemistry Polymers Biomaterials Optical and Electronic Materials Organic Chemistry Polymer Sciences
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Hydrogen Bonding-Controlled Photoinduced Electron and Energy Transfer -- Hydrogen Bonding in Supramolecular Nanoporous Materials -- Hydrogen Bonding for the Self-assembly of Organogels and Hydrogels -- Designing Charge-assisted Hydrogen Bonded Supramolecular Gelators -- Hydrogen Bonding for Supramolecular Liquid Crystals -- Hydrogen Bonding for Molecular, Macromolecular and Supramolecular Materials.
Sommario/riassunto	This book is an up-to-date text covering topics in utilizing hydrogen bonding for constructing functional architectures and supramolecular materials. The first chapter addresses the control of photo-induced electron and energy transfer. The second chapter summarizes the formation of nano-porous materials. The following two chapters introduce self-assembled gels, many of which exhibit unique functions. Other chapters cover the advances in supramolecular liquid crystals and the versatility of hydrogen bonding in tuning/improving the properties

and performance of materials. This book is designed to bring together in a single volume the most important and active fields of hydrogen bonding strategy for designing supramolecular materials. The book will be a valuable resource for graduates and researchers working in the fields of supramolecular chemistry and materials 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.
