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Title:	Design of Molecular Materials: Supramolecular Engineering
Authors:	Simon, Jacques ; Bassoul, Pierre
Publication:	Design of Molecular Materials: Supramolecular Engineering, by Jacques Simon, Pierre Bassoul, pp. 508. ISBN 0-471-97371-8. Wiley-VCH , February 2001.
Publication Date:	02/2001
Category:	Nanotechnology & Nanomaterials
Origin:	WILEY
Bibliographic Code:	2001dmms.bookS

Abstract

This timely and fascinating book is destined to be recognised as THE book on supramolecular engineering protocols. It covers this sometimes difficult subject in an approachable form, gathering together information from many sources.

Supramolecular chemistry, which links organic chemistry to materials science, is one of the fastest growth areas of chemistry research. This book creates a correlation between the structure of single molecules and the physical and chemical properties of the resulting materials. By making systematic changes to the component molecules, the resulting solid can be engineered for optimum performance. There is a clearly written development from synthesis of designer molecules to properties of solids and further on to devices and complex materials systems, providing guidelines for mastering the organisation of these systems.

Topics covered include:

Systemic chemistry

Molecular assemblies

Notions of symmetry

Supramolecular engineering

Principe de Curie

Organisation in molecular media

Molecular semiconductors

Industrial applications of molecular materials This superb book will be invaluable to researchers in the field of supramolecular materials and also to students and teachers of the subject.

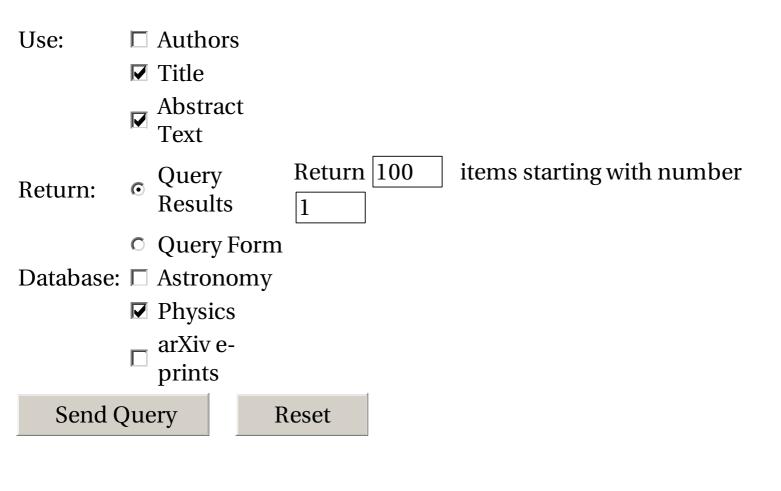
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