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| 1. Record Nr.           | UNINA9910137968503321                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Titolo                  | Hierarchically structured porous materials [[electronic resource] ] : from nanoscience to catalysis, separation, optics, energy, and life science / / edited by Bao-Lian Su, Clement Sanchez, and Xiao-Yu Yang                                                                                                                                                                                                                                                                                                                                                                                                       |
| Pubbl/distr/stampa      | Weinheim, Germany, : Wiley-VCH, 2012                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| ISBN                    | 1-280-78269-2<br>9786613693082<br>3-527-63960-8<br>3-527-63959-4<br>3-527-63958-6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Edizione                | [2nd ed.]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Descrizione fisica      | 1 online resource (679 p.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Altri autori (Persone)  | SuBao-Lian<br>SanchezClement<br>YangXiao-Yu                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Disciplina              | 620.1/16<br>620.116                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Soggetti                | Porous materials                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 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 and index.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Nota di contenuto       | pt. 1. Introduction -- pt. 2. Synthesis strategies to hierarchically structured porous materials -- pt. 3. Emerging applications of hierarchically structured porous materials -- pt. 4. Conclusion.                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Sommario/riassunto      | This first book devoted to this hot field of science covers materials with bimodal, trimodal and multimodal pore size, with an emphasis on the successful design, synthesis and characterization of all kinds of hierarchically porous materials using different synthesis strategies. It details formation mechanisms related to different synthesis strategies while also introducing natural phenomena of hierarchy and perspectives of hierarchical science in polymers, physics, engineering, biology and life science.Examples are given to illustrate how to design an optimal hierarchically porous material |