Record Nr. UNINA9911019766303321 Combinatorial materials science / / edited by Balaji Narasimhan, Surya **Titolo** K. Mallapragada, Marc D. Porter Pubbl/distr/stampa Hoboken, N.J.,: Wiley-Interscience, c2007 **ISBN** 9786611002206 9781281002204 1281002208 9780470140475 047014047X 9780470140468 0470140461 Descrizione fisica 1 online resource (247 p.) Altri autori (Persone) NarasimhanBalaji <1975-> MallapragadaSurya PorterM. D (Marc D.) Disciplina 620.1/1 Soggetti Materials science Combinatorial chemistry Computer science Combinatorial analysis Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Description based upon print version of record. Note generali Nota di bibliografia Includes bibliographical references and index. COMBINATORIAL MATERIALS SCIENCE; CONTENTS; Preface; Nota di contenuto Acknowledgments; Contributors; 1. Combinatorial Materials Science: Measures of Success; 2. Experimental Design in High-Throughput Systems; 3. Polymeric Discrete Libraries for High-Throughput Materials Science: Conventional and Microfluidic Library Fabrication and Synthesis; 4. Strategies in the Use of Atomic Force Microscopy as a Multiplexed Readout Tool of Chip-Scale Protein Motifs; 5. Informatics Methods for Combinatorial Materials Science; 6. Combinatorial Approaches and Molecular Evolution of Homogeneous Catalysts 7. Biomaterials Informatics8. Combinatorial Methods and Their

Application to Mapping Wetting-Dewetting Transition Lines on Gradient

## Sommario/riassunto

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Combinatorial Materials Science describes new developments and research results in catalysts, biomaterials, and nanomaterials, together with informatics approaches to the analysis of Combinatorial Science (CombiSci) data. CombiSci has been used extensively in the pharmaceutical industry, but there is enormous potential in its application to materials design and characterization. Addressing advances and applications in both fields, Combinatorial Materials Science: Integrates the scientific fundamentals and interdisciplinary underpinnings required to develop and apply Comb