

1. Record Nr.	UNINA9910437800203321
Titolo	Fundamentals and Application of New Bioproduction Systems // edited by An-Ping Zeng
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 2013
ISBN	3-642-41521-0
Edizione	[1st ed. 2013.]
Descrizione fisica	1 online resource (X, 238 p.)
Collana	Advances in Biochemical Engineering/Biotechnology, , 0724-6145 ; ; 137
Disciplina	660.6
Soggetti	Biotechnology Industrial engineering Production engineering Enzymology Industrial and Production Engineering
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di contenuto	Printing Peptide Arrays with a Complementary Metal Oxide Semiconductor Chip -- Protein Engineering as a Tool for the Development of Novel Bio production Systems -- Compartmentalization and Metabolic Channeling for Multienzymatic Biosynthesis: Practical Strategies and Modeling Approaches -- Cell-Free Systems: Functional Modules for Synthetic and Chemical Biology -- New Bio production Systems: From Molecular Circuits to Novel Reactor Concepts in Cell-Free Biotechnology -- Cell-free Biosystems in the Production of Electricity and Bioenergy -- In Vitro Multi enzymatic Reaction Systems for Biosynthesis -- Directed Multistep Biocatalysis Using Tailored Permeabilized Cells.
Sommario/riassunto	Printing Peptide Arrays with a Complementary Metal Oxide Semiconductor Chip Felix F. Loeffler, Yun-Chien Cheng, Bastian Muenster, Jakob Striffler, Fanny C. Liu, F. Ralf Bischoff, Edgar Doersam, Frank Breitling and Alexander Nesterov-Mueller Protein Engineering as a Tool for the Development of Novel Bioproduction Systems Uwe T. Bornscheuer Compartmentalization and Metabolic Channeling for Multienzymatic Biosynthesis: Practical Strategies and Modeling

Approaches U. Jandt, C. You, Y. H.-P. Zhang and A.-P. Zeng Cell-Free Systems: Functional Modules for Synthetic and Chemical Biology Marlitt Stech, Andreas K. Brödel, Robert B. Quast, Rita Sachse and Stefan Kubick New Bioproduction Systems: From Molecular Circuits to Novel Reactor Concepts in Cell-Free Biotechnology Steffen Rupp Cell-free Biosystems in the Production of Electricity and Bioenergy Zhiguang Zhu, Tsz Kin Tam and Y.-H. Percival Zhang In Vitro Multienzymatic Reaction Systems for Biosynthesis Inés Ardao, Ee Taek Hwang and An-Ping Zeng Directed Multistep Biocatalysis Using Tailored Permeabilized Cells Steffen Krauser, Christian Weyler, Lisa Katharina Blaß and Elmar Heinzle.
