

1. Record Nr.	UNINA9910830902303321
Titolo	Colloidal nanoparticles in biotechnology [[electronic resource]] / edited by Abdelhamid Elaissari
Pubbl/distr/stampa	Hoboken, N.J., : Wiley-Interscience, c2008
ISBN	1-281-23747-7 9786611237479 0-470-25855-1 0-470-25854-3
Descrizione fisica	1 online resource (382 p.)
Collana	Wiley Series on Surface and Interfacial Chemistry ; ; v.2
Altri autori (Persone)	ElaissariAbdelhamid
Disciplina	610.28 660.6
Soggetti	Colloids in medicine Nanoparticles - Diagnostic use
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	COLLOIDAL NANOPARTICLES IN BIOTECHNOLOGY; CONTENTS; About the Editor; Preface; Contributors; 1. Reactive Nanocolloids for Nanotechnologies and Microsystems; 2. Nanoparticles Comprising pH/Temperature-Responsive Amphiphilic Block Copolymers and Their Applications in Biotechnology; 3. Evolution in Malaria Disease Detection: From Parasite Visualization to Colloidal-Based Rapid Diagnostic; 4. Antigen-Antibody Interactions Detected by Quasi-Elastic Light Scattering and Electrophoretic Mobility Measurements - A New Concept for Latex Immunodiagnostic Test 5. Biospecific Reactions by Affinity Latexes from Diagnostics to Multiplex Assay6. Fluorescent Colloidal Particles as Detection Tools in Biotechnology Systems; 7. Biofunctionalized Magnetic Micro/Nanoparticles for Biosensing Technologies; 8. Colloids, Biotechnology, and Microfluidics; 9. Gas Sensors Based on Ultrathin Films of Conducting Polymers and Nanocomposites; 10. Force Measurements between Emulsion Droplets As a New Tool for Medical Diagnostics; 11. Particles for Protein Analysis in Microfluidic Systems 12. Semicarbazide/-oxo Aldehyde Site-Specific Ligation Chemistry:

From Peptide Microarrays to the Micropatterning of Polycarbonate or Titanium Oxide Using Silica Nanoparticles
13. Electrical Detection of Antibodies from Human Serum Based on the Insertion of Gold-Labeled Secondary Antibodies into Microor Nanogaps; Index

Sommario/riassunto

Dr. Abdelhamid Elaissari, internationally respected author and researcher, reports on and analyzes a broad range of important findings from new studies on the use of colloidal nanoparticles in biomedical, food, and environmental diagnostics and analyses. Throughout the presentation, the book uses a blend of classical tools, including optical microscopy, atomic force microscopy, microsystems, and microfluidics, to help you take full advantage of colloidal nanoparticles for your own research and applications.
