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Altri autori (Persone)	MattoussiHedi CheonJinwoo
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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Colloidal quantum dots: synthesis, photophysical properties, and biofunctionalization strategies -- Colloidal chemical synthesis of organic-dispersible uniform magnetic nanoparticles -- Peptide-functionalized quantum dots for live diagnostic imaging and therapeutic applications -- Resonance energy transfer-based sensing using quantum dot bioconjugates -- Use of luminescent quantum dots to image and initiate biological functions -- Single particle investigation of biological processes using QD-bioconjugates -- Assessment of the issues related to the toxicity of quantum dots -- Chemical and biological sensing based on gold nanoparticles -- Plasmon-resonant gold nanorods: photophysical properties applied toward biological imaging and therapy -- Magnetic nanoparticles in biomedical applications -- Magnetic nanoparticles -- assisted cellular MR imaging and their biomedical applications.
Sommario/riassunto	Written and edited by leading experts in the field, this unique book places particular emphasis nanoprobes made of luminescent semiconductor nanocrystals (quantum dots or QDs) and magnetic nanoparticles (MNPs). You find an insightful discussion on the synthesis, characterization, and analysis of the unique properties of luminescent QDs and MNPs.

