

1. Record Nr.	UNINA9910298620603321
Autore	Yang Jun
Titolo	Metal-Based Composite Nanomaterials // by Jun Yang, Hui Liu
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2015
ISBN	3-319-12220-7
Edizione	[1st ed. 2015.]
Descrizione fisica	1 online resource (263 p.)
Disciplina	548 620.11 620115 658.26
Soggetti	Nanotechnology Crystallography Energy consumption Crystallography and Scattering Methods Energy Efficiency
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 at the end of each chapters.
Nota di contenuto	Introduction -- A General Phase Transfer Approach for Metal Ions and Nanoparticles -- Nanocomposites of Gold and Semiconductors -- Nanocomposites Consisting of Silver Sulfide and Noble Metals -- Cadmium Selenide-Platinum Nanocomposites with A Core-Shell Construction -- Nanocomposites of Silver Sulfide and Noble Metals with Controlled Nanostructures -- Nanocomposites of Metal Oxides and Noble Metals -- Nanocomposite-Related Scientific Issues Conclusion and Perspectives.
Sommario/riassunto	This book introduces the latest research developments in composite nanomaterials and summarizes the fundamentals and technical approaches in synthesis, fabrication and processing of composite nanomaterials. The author describes the intrinsic relationship between the catalytic properties and the physical and chemical effects in the composite materials, providing for theoretical and technical bases for effectively developing novel electrocatalysts - applications of the nanocomposites in energy conversion areas.

