

1. Record Nr.	UNINA9910298623203321
Titolo	Thin Film Structures in Energy Applications // edited by Suresh Babu Krishna Moorthy
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2015
ISBN	3-319-14774-9
Edizione	[1st ed. 2015.]
Descrizione fisica	1 online resource (300 p.)
Disciplina	620.44
Soggetti	Surfaces (Technology) Thin films Energy storage Energy systems Surfaces and Interfaces, Thin Films Energy Storage Energy Systems
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	Thin film – deposition, growth aspects and characterization -- Coatings for Energy Applications -- Ternary and quaternary semiconducting compounds thin film solar cells -- Organic Semiconductors: A New Future of Nano Devices and Applications -- Titania Nano-architectures for energy -- State-of-the-art thin film electrolytes for solid oxide fuel cells -- Thin film thermoelectric materials for sensor applications: An overview -- Electroluminescent Thin Film Phosphors -- Thin Films for Energy Efficient Mechanical Tools.
Sommario/riassunto	This book provides a comprehensive overview of thin film structures in energy applications. Each chapter contains both fundamentals principles for each thin film structure as well as the relevant energy application technologies. The authors cover thin films for a variety of energy sectors including inorganic and organic solar cells, DSSCs, solid oxide fuel cells, thermoelectrics, phosphors and cutting tools.