

1. Record Nr.	UNINA9910299903503321
Titolo	Advanced Ceramic and Metallic Coating and Thin Film Materials for Energy and Environmental Applications // edited by Jing Zhang, Yeon-Gil Jung
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2018
ISBN	3-319-59906-2
Edizione	[1st ed. 2018.]
Descrizione fisica	1 online resource (XII, 286 p. 156 illus., 101 illus. in color.)
Disciplina	620.5
Soggetti	Nanotechnology Materials—Surfaces Thin films Energy Environmental engineering Biotechnology Nanotechnology and Microengineering Surfaces and Interfaces, Thin Films Energy, general Environmental Engineering/Biotechnology
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references at the end of each chapters.
Nota di contenuto	Overview of Advanced Ceramic and Metallic Coatings for Energy and Environmental Applications -- Processing and Characterization of Coating and Thin Film Materials -- Magnetic Materials -- Thermoelectric Materials -- Solar Energy and Solar Cell Materials -- Solid Oxide Fuel Cell Materials -- Modeling and Simulation of Energy Materials and Processes.
Sommario/riassunto	This book explores the recent developments, perspectives on future research, and pertinent data from academia, industry, and government research laboratory to discuss fundamental mechanisms as well as processing and applications of advanced metallic and ceramic thin film and coating materials for energy and environmental applications. It is a platform to disseminate the latest research progress related to

processing, characterization, and modelling. The authors address both thermal barrier and environmental coatings; magnetic and thermoelectric materials; and solar cell and solid oxide fuel cell materials. It is appropriate supplementary reading for students and primary reading for researchers in materials science and engineering. .

---