

1. Record Nr.	UNINA9910870896303321
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Titolo	Advanced Functional Nanostructured Films and Coatings for Energy Applications
Pubbl/distr/stampa	MDPI - Multidisciplinary Digital Publishing Institute, 2024
Descrizione fisica	1 online resource
Soggetti	Mathematics and Science Physics Energy
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	The extraordinary advancements recently achieved in materials science mostly derive from the capability to combine/hybridize solids on different dimensional scales. Applying such concepts and further knowledge in the surface/interface field to the energy sector represents an indispensable priority. This paper aims to reveal to scholars involved in the energy research area the enormous potential that functional interface science in hybrid solid systems has for energy transduction.