

1. Record Nr.	UNINA9910585943303321
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Titolo	Recent Advances in Metal, Ceramic, and Metal-Ceramic Composite Films/Coatings
Pubbl/distr/stampa	Basel, : MDPI - Multidisciplinary Digital Publishing Institute, 2022
Descrizione fisica	1 online resource (156 p.)
Soggetti	Physics Research & information: general
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	This reprint gathers works on various coating materials and technologies aimed at the improvement of materials' properties, such as corrosion resistance or biocompatibility. Systematic studies demonstrate how the structure and morphology of coatings can change the mechanical, chemical and various functional properties of materials. The reprint contributes to the better understanding of various phenomena induced by metal, ceramic or composite coatings in core materials and, thus, it can help in the more rational design of the selected material's properties in future studies by the application of coatings.