

1. Record Nr.	UNINA9910557331903321
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Titolo	Coatings Imparting Multifunctional Properties to Materials
Pubbl/distr/stampa	Basel, Switzerland, : MDPI - Multidisciplinary Digital Publishing Institute, 2021
Descrizione fisica	1 online resource (96 p.)
Soggetti	Technology: general issues
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	Coatings are traditionally used to protect materials from corrosion and erosion and improve the equipment's performance. At present, there are coatings that provide materials with new properties, for example, biocidal, hydrophobic and self-cleaning properties. A promising area of materials science is the development of "smart" coatings that simultaneously give materials several new properties. The coating properties are determined by the coatings' material, the structure and the properties of the substrate surface, and the methods of forming the coatings. This book contains the results of the latest research on the formation of coatings that impart complexes of new properties to various materials.