

1. Record Nr.	UNINA9910557306203321
Titolo	Advances in Coatings Deposition and Characterization // Alessandro Lavacchi, Massimo Innocenti, Steve Bull, editors
Pubbl/distr/stampa	Basel, Switzerland : , : MDPI - Multidisciplinary Digital Publishing Institute, , 2020
Descrizione fisica	1 electronic resource (196 p.)
Disciplina	667.9
Soggetti	Ceramic coating Thin film devices
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	About the Selected Editors -- Preface to "Advances in Coatings Deposition and Characterization" -- Development of YSZ Thermal Barrier Coatings Using Axial Suspension Plasma Spraying -- Sputtering Physical Vapour Deposition (PVD) Coatings: A Critical Review on Process Improvement and Market Trend Demands -- Combination of Electrodeposition and Transfer Processes for Flexible Thin-Film Thermoelectric Generators -- Defect-Free Large-Area (25 cm <sup>2</sup> ) Light Absorbing Perovskite Thin Films Made by Spray Coating -- Antireflection Coatings for Strongly Curved Glass Lenses by Atomic Layer Deposition -- Continuous Tip Widening Technique for Roll-to-Roll Fabrication of Dry Adhesives -- Preparation and Characterization of Bioplastics from Grass Pea Flour Cast in the Presence of Microbial Transglutaminase -- A Guide to and Review of the Use of Multiwavelength Raman Spectroscopy for Characterizing Defective Aromatic Carbon Solids: from Graphene to Amorphous Carbons -- Corrosion Resistance and Durability of Superhydrophobic Copper Surface in Corrosive NaCl Aqueous Solution -- On the Durability and Wear Resistance of Transparent Superhydrophobic Coatings.
Sommario/riassunto	Coatings offer the unique opportunity to create architectures that combine the functionality of two or more materials, conferring unique properties to objects with an extremely large palette of solutions. For this flexibility, thick and thin films have terrific impacts on the most

relevant societal challenges. Computers, food packaging, airplanes, and cars, to mention a few familiar objects from everyday life, rely heavily on coatings. To celebrate the key role that coatings have in society, and in science and technology, this book collects a selection of relevant reviews and original research articles published in “Coatings” in 2017 and 2018. Papers have been selected based on their broad impact and balancing between the two major aspects of coatings science and technology: deposition and characterization.

---