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Descrizione fisica	1 online resource (724 p.)
Collana	Advanced materials series
Disciplina	620/.44
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Lingua di pubblicazione	Inglese
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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Title page; Copyright page; Preface; Part 1: Functional Coatings and Adhesives; Chapter 1: Bio-inspired Coatings and Adhesives; 1.1 Introduction; 1.2 The Interfacial Biochemistry of a Mussel Adhesive; 1.3 Tough Coating Proteins in the Mussel Thread; 1.4 Mussel-inspired Coatings and Adhesives; 1.5 Conclusions and Future Research Avenues for Bio-inspired Adhesives and Coatings; References; Chapter 2: Advancement of Surface by Applying a Seemingly Simple Sol-gel Oxide Materials; 2.1 Introduction; 2.2 Are Simple Sol-gel Oxides Only Simple Materials?; 2.3 Hybrid Coating Materials 2.4 Functionalized Oxide Coatings2.5 Coatings for Cells; 2.6 Sol-gel Materials as Interface Materials; 2.7 Conclusions; References; Chapter 3: Femtosecond Laser Texturing of Bio-based Polymer Films for Surface Functionalization; 3.1 Introduction; 3.2 Naturally Derived Biomaterials; 3.3 Surface Modification Features; 3.4 Mechanisms of Laser-tissue Interaction; 3.5 Laser-based Methods for Surface Treatment of Biomaterials; 3.6 Conclusion; Acknowledgments; References; Chapter

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Autore	Uthicke Sven
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