

1. Record Nr.	UNINA9910557408603321
Autore	Rtimi Sami
Titolo	Advances in Antimicrobial Coatings
Pubbl/distr/stampa	Basel, Switzerland, : MDPI - Multidisciplinary Digital Publishing Institute, 2021
Descrizione fisica	1 online resource (166 p.)
Soggetti	Research & information: general Technology: general issues
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	This book is motivated by our passion to compile recent research on antimicrobial surfaces. We aimed to assemble research papers on the preparation of new materials, antimicrobial testing using different pathogens (bacteria, fungi, and viruses), and the relationship between the coating nanostructure and its reactivity towards the studied pathogen(s). We believe that a good antimicrobial coating should be characterized by (i) a fast activity towards the pathogen, (ii) sustainable activity based on the stability of the coating, and (iii) the lowest possible toxicity for humans and reduced risks for the environment. Striking a compromise between these different challenges is difficult and requires more research.