1. Record Nr. UNINA9910373942203321

Autore	Kanematsu Hideyuki
Titolo	Formation and Control of Biofilm in Various Environments / / by Hideyuki Kanematsu, Dana M. Barry
Pubbl/distr/stampa	Singapore : , : Springer Singapore : , : Imprint : Springer, , 2020
ISBN	981-15-2240-5
Edizione	[1st ed. 2020.]
Descrizione fisica	1 online resource (XVI, 233 p. 155 illus., 89 illus. in color.)
Disciplina	579.17
Soggetti	Microbial ecology Tribology Corrosion and anti-corrosives Coatings Environmental engineering Biotechnology Biomedical engineering Biomaterials Microbiology Microbial Ecology Tribology, Corrosion and Coatings Environmental Engineering/Biotechnology Biomedical Engineering/Biotechnology Applied Microbiology
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Introduction -- Fundamentals for Biofilms -- Animate Substrata and Biofilms -- Biofilms in Nature and Artificial Materials -- Laboratory Biofilm Reactors -- Detection and Evaluation of Biofilms -- Standardization – Current and Future -- Biofilm Problems and Environments -- Biofilm Usefulness -- Biofilm Control and Thoughts for the Future.
Sommario/riassunto	This book provides excellent techniques for detecting and evaluating biofilms: sticky films on materials that are formed by bacterial activity and produce a range of industrial and medical problems such as

corrosion, sanitary problems, and infections. Accordingly, it is essential to control biofilms and to establish appropriate countermeasures, from both industrial and medical viewpoints. This book offers valuable, detailed information on these countermeasures. It also discusses the fundamentals of biofilms, relates various substrates to biofilms, and presents a variety of biofilm reactors. However, the most important feature of this book (unlike others on the market) is its clear focus on addressing the practical aspects from an engineering viewpoint. Therefore, it offers an excellent practical guide for engineers and researchers in various fields, and can also be used as a great academic textbook. .