

1. Record Nr.	UNINA9910254039203321
Titolo	Biomedical and Pharmaceutical Applications of Electrochemistry // edited by Stojan Djoki
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2016
ISBN	3-319-31849-7
Edizione	[1st ed. 2016.]
Descrizione fisica	1 online resource (XI, 463 p. 208 illus., 56 illus. in color.)
Collana	Modern Aspects of Electrochemistry, , 0076-9924 ; ; 60
Disciplina	543.0871
Soggetti	Electrochemistry Pharmaceutical technology Biomaterials Biomedical engineering Pharmaceutical chemistry Pharmaceutical Sciences/Technology Biomedical Engineering and Bioengineering Medicinal Chemistry
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	Surface Treatments of titanium with antibacterial agents for implant applications -- Contribution to the Recent Advances in Electrochemical Analysis of Pharmaceuticals -- Anodisation and sol gel coatings as surface modification to promote osseointegration in metallic prosthesis -- Electrochemical production of polymer hydrogels with silver nanoparticles for medical applications as wound dressings and soft tissue implants -- Biocompatible hydroxyapatite based composite coatings obtained by electrophoretic deposition for medical applications as hard tissue implants.
Sommario/riassunto	This volume of Modern Aspects of Electrochemistry reviews the latest developments in electrochemical science and technology related to biomedical and pharmaceutical applications. In particular, this book discusses electrochemical applications to medical devices, implants, antimicrobially active materials, and drug delivery systems. From

reviews of previous volumes: "This long-standing series continues its tradition of offering high quality reviews of established and emerging subject areas, together with the less common aspects of electrochemical science... [and]... deserves a place in electrochemistry libraries and should prove useful to electrochemists and related workers." —Chemistry and Industry "Continues the valuable service that has been rendered by the Modern Aspects series." —Journal of Electroanalytical Chemistry "Will definitely be of much use to researchers in the field of electrochemistry. . . . The editors of this well-produced volume deserve all appreciation for maintaining the excellent standard of the series." —Bulletin of Electrochemistry "Extremely well-referenced and very readable.... Maintains the overall high standards of the series." —Journal of the American Chemical Society.

---