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Collana	Advances in electrochemical science and engineering ; ; 11
Altri autori (Persone)	AlkireR. C. <1941-> KolbDieter M LipkowskiJacek RossP. N (Philip N.)
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Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
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Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Advances in Electrochemical Science and Engineering; Contents; Preface; List of Contributors; 1 Nanostructured Electrodes with Unique Properties for Biological and Other Applications; 1.1 Introduction; 1.2 High Surface Area Electrodes; 1.2.1 Attachment of Nanoparticles onto Electrodes; 1.2.2 Templating using Membranes; 1.2.3 Templating using Lyotropic Liquid Crystals; 1.2.4 Colloidal Templates; 1.3 Catalytic Properties; 1.4 Exploiting Nanoscale Control to Interface Electrodes with Biomolecules; 1.4.1 Plugging Nanomaterials into Proteins - Nanoparticles 1.4.2 Plugging Nanomaterials into Proteins - Carbon Nanotubes1.4.3 Plugging Nanomaterials into Proteins - Molecular Wires; 1.4.3.1 Nanostructuring Electrodes to Achieve Intimate Connectivity with Biomolecules; 1.4.3.2 Nanostructuring Electrodes using Rigid Molecules; 1.4.3.3 The use of Molecular Wires in Electrochemistry such

that Long-Distance Electron Transfer can be Exploited for a Variety of Applications; 1.5 Switchable Surfaces; 1.5.1 Switching Properties of Monolayer Systems; 1.5.2 Control and Enhancement of Electrochemical Reactions using Magnetic Nanostructures on Electrodes  
 1.6 ConclusionsReferences; 2 Electrochemically Active Polyelectrolyte-Modified Electrodes; 2.1 Introduction; 2.1.1 Chemically Modified Electrodes; 2.1.2 Redox Hydrogels; 2.1.3 Redox Polyelectrolyte Monolayers; 2.1.4 Redox Polymer Brushes and Grafted DNA; 2.1.5 Layer-by-Layer Polyelectrolyte Multilayers; 2.2 Structure; 2.2.1 Polyelectrolyte Interpenetration; 2.2.2 Compensation of Polyelectrolyte Charges; 2.2.3 Film Inner Structure; 2.2.4 Effect of the Assembly pH; 2.2.5 Theoretical Description; 2.3 Electrochemical Response; 2.3.1 Ideal Response; 2.3.2 Peak Position and Donnan Potential  
 2.3.3 Coupling Between the Acid-Base and Redox Equilibria2.3.4 Peak Width; 2.3.5 Nonreversible Electrochemistry: Charge Transport; 2.4 Dynamics of Solvent and Ion Exchange; 2.4.1 Ion Exchange; 2.4.2 Solvent Exchange; 2.4.3 Specific Ionic Effects; 2.4.4 Break-In; 2.5 Molecular Description of Redox Polyelectrolyte-Modified Electrodes; 2.5.1 Formulation of the Molecular Theory; 2.5.2 Comparison with Phenomenological Models, Advantages and Limitations; 2.6 Applications; 2.6.1 Amperometric Enzymatic Electrodes; 2.6.2 Electrochromic Devices; 2.7 Conclusions; References  
 3 Electrochemistry on Carbon-Nanotube-Modified Surfaces3.1 Introduction; 3.2 Structure and Properties of Carbon Nanotubes; 3.2.1 Structure and Electronic Properties; 3.2.2 Chemical Properties; 3.2.3 Electrochemical Properties; 3.3 Towards the Design of CNT-Modified Electrodes; 3.3.1 Synthesis of CNTs; 3.3.2 CNT Purification Methods; 3.3.3 Chemical and Biochemical Functionalization; 3.3.3.1 Covalent Modification; 3.3.3.2 Noncovalent Modification; 3.3.3.3 Chemical Modification for CNT Sorting; 3.3.3.4 Chemical Doping, Intercalation and Artificial Defects  
 3.3.4 CNT Deposition on Electrode Surfaces

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## Sommario/riassunto

With contributions from an international group of expert authors, this book includes the latest trends in tailoring interfacial properties electrochemically. The chapters cover various organic and inorganic compounds, with applications ranging from electrochemistry to nanotechnology and biology.Of interest to physical, surface and electrochemists, materials scientists and physicists.

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2. Record Nr.	UNISA996395710603316
Autore	Baxter Richard <1615-1691.>
Titolo	The poor man's family book [[electronic resource] ] : 1. Teaching him how to become a true Christian, 2. How to live as a Christian, towards God, himself, and others in all his relations especially in his family, 3. How to die as a Christian in hope and comfort, and so to be glorified with Christ forever : in plain familiar conference between a teacher and a learner : with a form of exhortation to the sick, two catechisms, a profession of Christianity, forms of prayers for various uses, and some psalms and hymns for the Lord's day / / written by Rich. Baxter ; with a request to landlords and rich men to give to their tenants and poor neighbours, either this or some fitter book
Pubbl/distr/stampa	London, : Printed by R. Everingham by order of the executors of the Reverend Mr. Richard Baxter, 1697
Edizione	[The sixth edition]
Descrizione fisica	[12], 504 p
Soggetti	Christian life Devotional literature Conduct of life
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Imperfect: stained, tightly bound, and with loss of text and lacking p. 489-490. Reproduction of original in: Henry E. Huntington Library and Art Gallery.
Nota di bibliografia	Includes bibliographical references.
Sommario/riassunto	eebo-0113