

1. Record Nr.	UNINA9911114212203321
Titolo	Handbook of Nanoelectrochemistry : Electrochemical Synthesis Methods, Properties and Characterization Techniques // edited by Mahmood Aliofkhazraei, Abdel Salam Hamdy Makhlouf
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2020
ISBN	3-319-15207-6
Descrizione fisica	1 online resource (2000 p.)
Disciplina	541.37
Soggetti	Electrochemistry Nanoscience Nanostructures Nanotechnology Nanochemistry Nanoscale Science and Technology
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Anodically Grown TiO ₂ Nanotube Membranes: Synthesis, Characterization and Application in Dye-Sensitized Solar Cells -- Application of Two-Dimensional Heisenberg Model to Electrochemical Nucleation Theory -- Bio-composite Nanomaterials for Electrochemical Biosensors -- Characterization of Metallic Micro(nano)cluster-Based Contacts for High-Effective Photovoltaic Devices -- Development of Nanostructures by Electrochemical Method for Chemical Sensors -- Electrochemical Control of the Core-Shell Cobalt-Platinum Nanoparticles -- Electrochemical Fabrication of Graphene-Based Nanomaterials -- Electrochemical Fabrication of Multi-Nano-Layers -- Electrochemical Fabrication of Nanostructures -- Electrochemical Preparation of Nanoresonators -- Electrochemical Sensors Based on Nanostructured Materials -- Electrochemical Synthesis of Metal Chalcogenide Nanorods, Nanotubes, Segmented Nanorods and Co-axial Nanorods -- Electrochemically Fabricated Nanostructures in Energy Storage and Conversion Applications -- Electrodeposited Zn-

Nanoparticles Composite Coatings for Corrosion Protection of Steel -- Electrodeposition of ZnO: Growth, Doping, and Physical Properties -- Electrodeposition to Produce Advanced Nanostructures for Electrochemical Capacitors -- Electroforming and Electrodeposition on Complex 3D Geometries: Special Requirements and New Methods -- Electroless Nanocomposite Coatings: Synthesis, Characteristics and Applications -- Electron Transfer and Charge Storage in Thin Films of Nanoparticles -- Electrophoretic Deposition (EPD): Fundamentals and Applications from Nano- to Micro-Scale Structures -- Formation and Characterization of Bimetallic Nanoparticles in Electrochemistry -- Formation and Characterization of Nanomaterials in Electrochemistry -- Frontiers of Nanoelectrochemistry and Application of Nanotechnology: A Vision for the Future -- Implementation of Nanostructured Catalysts in the Electrochemical Promotion of Catalysis -- Metal Oxide Nanoparticle Engineering for Printed Electrochemical Applications -- Microstructural Aspects of Ionic Conductivity in Nanocrystalline Zirconia -- Modelling of Metal Electrodeposition at the Nanoscale -- Nanomaterials in Analytical Bioelectrochemistry -- Nanomaterials Produced by Electrocrystallization Method -- Nanomaterials in Solar Cells -- Nanoporous Anodic Aluminum Oxide: Fabrication, Characterization and Applications -- Nanoscale Electrodeposition of Metals and Semiconductors from Ionic Liquids Probed by Scanning Tunneling Microscopy -- Nanostructured Hybrid Graphene-Conducting Polymers for Electrochemical Supercapacitor Electrodes -- Nanostructured Transition Metal Oxides Produced by Electrodeposition for Application as Redox Electrodes for Supercapacitors -- New Approaches to the Study of Spinel Ferrite Nanoparticles for Biomedical Applications -- New Insights in Nanoelectrodeposition: An Electrochemical Aggregative Growth Mechanism -- Plasmonic Nanostructured Supports for Spectro-Electrochemistry of Enzymes on Electrodes -- Porous Indium Phosphide: Preparation and Properties -- Recent Advances in Synthesis, Modification and Applications of TiO₂ Nanotube Arrays by Electrochemical Anodization -- Recent Approaches for Designing Nanomaterials-Based Coatings for Corrosion Protection -- Scanning Electrochemical Microscopy: A Multiplexing Tool for Electrochemical DNA Biosensing -- Self-Assembled Functionalized Metallic Nanoparticles Template Toward Tailoring the Properties of Electrochemically Deposited Metallic Nanostructure -- Self-Assembled Monolayers on Nano-structured Composites for Electrochemical Sensing Applications -- Self-Assembled Peptide Nanostructures for the Development of Electrochemical Biosensors -- Self-Organized Nano- and Micro-structure of Electrochemical Materials by Design of Fabrication Approaches -- Self-Organized Nanostructures -- Synthesis, Modification and Characterization of Nanocarbon Electrodes for Determination of Nucleic Acids -- The Electrochemistry of Peptide Self-Assembled Monolayers -- Wet Chemical Approaches for Chemical Functionalization of Silicon and Titanium Nanomaterials.

Sommario/riassunto

This edited book is devoted to different electrochemical aspects of nanomaterials. This comprehensive reference text is basically divided in 3 parts: electrochemical synthesis routes for nanosized materials, electrochemical properties of nanomaterials and electrochemical characterization methods for nanostructures. The Handbook is a reference work to chemists and materials scientists interested in the nano aspects of electrochemistry. The chapters are written by a number of international experts in the field and the content will assist members of both electrochemical and materials communities to keep abreast of developments in the field.

2. Record Nr.	UNINA9911143540103321
Autore	Short Michael J
Titolo	Planning for tall buildings / / Michael J. Short
Pubbl/distr/stampa	London ; ; New York, : Routledge, 2012 London ; ; New York : , : Routledge, , 2012
ISBN	1-135-72119-X 1-283-84582-2 1-135-72112-2 0-203-72087-3 9780203720875
Edizione	[1st ed.]
Descrizione fisica	1 online resource (235 p.)
Disciplina	720.483 720/.483
Soggetti	City planning Tall buildings - Social aspects
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Front Cover; Planning for Tall Buildings; Copyright Page; Contents; List of tables; Image credits; Acknowledgements; Introduction; 1. The tall building typology; 2. The potential impacts of tall buildings; 3. The emergence of planning frameworks for tall buildings; 4. The conservation challenge of tall buildings; 5. Tall buildings in Liverpool: balancing conservation and change in the maritime mercantile city; 6. Tall buildings in Manchester: while Liverpool thinks, Manchester constructs; 7. Tall buildings in Birmingham: the new image of the city? 8. "The blue, the green and the city in between": tensions between conservation and tall building development in Oslo9. Tall buildings in Dublin: property-led regeneration within an evolving conservation planning framework; 10. Tall buildings in Newcastle-upon-Tyne: reconciling the past with the present?; 11. Tall buildings in Vancouver: celebrating the "cult of the view"; 12. Conclusions; Notes; References; Index
Sommario/riassunto	In a time of recession, the challenge of building and planning for tall

buildings has become even more complex; the economics of development, legislative and planning frameworks, and the local politics of development must be navigated by those wishing to design and construct new tall buildings which fit within the fabric of their host cities. This book is a timely contribution to the debate about new tall buildings and their role and effect on our cities. It is divided into two main parts. In part one, the relationship between tall buildings and planning is outlined, followed by an e
