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Nota di contenuto	Intro -- ENVIRONMENTALLY HARMONIOUSCHEMISTRY FOR THE 21ST CENTURY -- CONTENTS -- PREFACE -- BIOANALYTICAL SYSTEMS WITH IN VIVOBIOSENSORS AND MICROFLUIDIC DEVICES -- ABSTRACT -- 1.1. INTRODUCTION -- 1.2. PRINCIPLE OF BIOANALYTICAL SENSORS -- 1.3. IN VIVO ANALYSIS OF BIOMOLECULES IN BRAIN,7 -- 1.3.1. The Use of the Enzyme Reactor as a Recognition Element -- 1.3.1.1. On-Line Amperometric Assay of Glucose, L-Glutamate,and Acetylcholine Using Immobilized Enzyme Reactors [14] -- 1.3.1.2. An In Vivo Flow-Injection System for the Highly Selectiveand Sensitive Detection of L-Glutamate Using an Enzyme ReactorInvolving Amplification [15-17] -- 1.3.2. The Use of Biosensors as a Molecular Recognition Sensor -- 1.3.2.1. Simultaneous In Vivo Monitoring of Glucose, L-Lactate,and Pyruvate Concentrations in the Rat Brain [18, 19] -- 1.3.2.2. Microdialysis Fiber Enzyme Electrodefor In Vivo Monitoring [20, 21] -- 1.4. GENERAL ASPECTS OF ANALYTICAL SYSTEMSBASED ON MICROFLUIDIC DEVICES -- 1.4.1. Characteristics Provided by a Liquid Microspace -- 1.4.2. Multilayer Flow inside Microchannels -- 1.5. APPLICATIONS OF MICROFLUIDIC DEVICESFOR ANALYTICAL SYSTEMS -- 1.5.1. Multi-Ion Analysis System Based on an IntermittentReagent Pumping and Two Layer Flow InsideMicrochannel [29, 30] -- 1.5.2. Biosensing System Based on an In Situ-FabricatedOrganic Membrane Immobilizing Enzyme [39] -- 1.6. CONCLUSION -- REFERENCES -- DEVELOPMENT AND

APPLICATION OFFUNCTIONAL INORGANIC MATERIALS -- 1. INTRODUCTION -- 2. FUNCTIONAL MATERIALS FROM ALUMINA -- 3. DEVELOPMENT AND APPLICATION OF GLASS-BASEDSOLID ELECTROLYTES -- 3.1. Solid Electrolytes -- 3.2. Sulfide-Based Glass-Ceramic Electrolyteswith Lithium Ion Conduction -- 4. ALL-SOLID-STATE BATTERIES -- 4.1. All-Solid-State Lithium Secondary BatteryUsing Sulfide Solid Electrolytes.
4.2. All-Sulfide Batteries - A New Conceptin All-Glass-Based Battery Systems -- REFERENCES -- DEVELOPMENT OF ENVIRONMENTALLYFRIENDLYARTIFICIAL PHOTOSYNTHETICCATALYSTS USING CLEAN AND ABUNDANTSOLAR ENERGY -- 1. INTRODUCTION -- 2. PRINCIPLES OF PHOTOCATALYSIS -- Solar Energy Conversion and Environmental Applications -- 3. THE APPLICATION OF PHOTOCATALYSTS FOR SOLARENERGY CONVERSION AND ENVIRONMENTAL PROTECTION -- 3.1. Water Splitting Reaction to Produce Pure Hydrogen -- 3.2. Artificial Photosynthesis: Photocatalytic Reductionof CO2 with H2O -- 3.3. Direct Photocatalytic Decomposition of NO into N2 and O2 -- 3.4. Applications in the Purification of Water Pollutedwith Various Toxic Compounds Such as Dioxins -- 3.5. Superhydrophilicity of TiO2 Thin Filmsand Their Application in Self-Cleaning Materials -- 4. DESIGN OF VISIBLE LIGHT-RESPONSIVETIO2 PHOTOCATALYSTS -- 4.1. Modification of the Electronic State of TiO2 by Applying anAdvanced Metal Ion-Implantation Method -- 4.2. Development of Visible Light-Responsive Ti/ZeoliteCatalysts by an Advanced Metal Ion Implantation Method -- 4.3. Preparation of Visible Light-Responsive TiO2 Thin FilmPhotocatalysts by a RF Magnetron Sputtering Deposition Method -- 5. SUMMARY -- REFERENCES -- ECO-FRIENDLY ELECTROCHEMICAL DEVICESUSING "WATER" AND "HYDROGEN" AS KEYSUBSTANCES IN THE 21ST CENTURY -- ABSTRACT -- INTRODUCTION -- NICKEL/METAL HYDRIDE BATTERY -- 1. Battery Reaction -- 2. General Features -- 3. Hydrogen Storage Alloys-Negative Electrode Active Materials -- 4. Outlook for the Future -- FUEL CELLS -- 1. Battery Reaction -- 2. General Features -- 3. Classification of Fuel Cells -- 4. PEFC -- 5. Outlook for Future -- REFERENCES -- ENVIRONMENTALLY HARMONIOUS ORGANICPHOTOCHEMICAL REACTIONS -- ABSTRACT -- 5.1. INTRODUCTION -- 5.2. PHOTOCYCLOADDITION REACTIONS.
5.2.1. Stereoselective Inter- and Intramolecular Photocycloaddition -- 5.2.2. Construction of PolycyclicCompounds via Intramolecular Photocycloaddition -- 5.3. PHOTOREACTIONS BY USE OF MICROREACTORS -- 5.4. PHOTOINDUCED ELECTRON-TRANSFER REACTIONS -- 5.4.1.1. Photoinduced Carbon-Carbon BondForming Reactions by Use of Organosilicon Compounds -- 5.4.1.2.Photoinduced Carbon-Carbon BondForming Reactions by Use of Carbon Nucleophiles -- 5.4.2. Rearrangement and Oxygenation of ArylatedMethylenecyclopropane (MCP) Triggered byPhotoinduced Electron Transfer (PET) -- 5.4.2.1. PET Degenerate MCP Rearrangement of Arylated MCP -- 5.4.2.2. PET Oxygenation of Arylated MCP -- 5.4.3. Thermoluminescence (TL) and Organic Radical Light-Emitting Diode (ORLED) Using Arylated MCP -- 5.4.3.1. TL Using Arylated MCP -- 5.4.3.2. ORLED Using Arylated MCP -- 5.4.3.2.1. Basic Concept of ORLED -- 5.4.3.2.2. Trial Manufacture of ORLED Using Arylated MCP -- 5.5. HIGHLY EMISSIVE ORGANOSILICON COMPOUNDS -- CONCLUSIONS -- REFERENCES -- CREATION OF NEW ORGANICMOLECULES, NEW REACTIONS BASED ONHETEROATOM CHEMISTRY -- ABSTRACT -- INTRODUCTION -- 1. TRANSITION-METAL-CATALYZED REACTIONSOF HETEROATOM COMPOUNDS[1] -- 2. PHOTOINDUCED RADICALREACTIONS OF HETEROATOM COMPOUNDS[2] -- 3. EARLY-

TRANSITION-METAL-CATALYZEDOXIDATION WITH MOLECULAR OXYGEN[3] -- 4. PHOTOINDUCED RARE EARTH REDUCTION SYSTEMS[4] -- 5. FLUORINATED SOLVENT ANDSYNTHESIS OF FLUOROUS TAGS[5] -- 6. APPLICATIONS TO MATERIAL SCIENCE[6] -- CONCLUSION -- REFERENCES -- UTILIZATION OF LIGHT IN POLYMER SCIENCE -- 1. INTRODUCTION -- 2. PHOTOPOLYMERS -- 3. REWORKABLE UV CURING MATERIALS[6] -- 3.1. Base Polymer/Crosslinker Blended System[7] -- 3.2. Functionalized Polymer System[8-10] -- 3.3. Multifunctional (Meth)Acrylate System[11] -- 5. CONCLUSION -- REFERENCES -- POLYMER-BASED NANOMATERIALSFOR DRUG DELIVERY -- ABSTRACT -- INTRODUCTION.
STRATEGY OF DRUG TARGETING -- POLYMER-DRUG CONJUGATES -- POLYMER MICELLES -- POLYMER-MODIFIED LIPOSOMES -- CONCLUSION -- REFERENCES -- AN ENVIRONMENTALLY-FRIENDLY PLASTICCOATING TECHNIQUE USING GOLDNANOPARTICLES FOR NANOELECTRONICDEVICE APPLICATIONS -- ABSTRACT -- INTRODUCITON -- GOLD NANO PARTICLE COATINGON PLASTIC MATERIALS -- NANOPARTICLE ARRAY BASED BIOSENSORS -- CONCLUSION -- REFERENCES -- POLYSILANES:NOVEL SIGMA-CONJUGATED POLYMERS -- ABSTRACT -- 1. INTRODUCTION -- 2. SYNTHESIS -- 2.1. Reductive Coupling Reaction of Dichlorodiorganisilanes -- 2.2. Dehydrogenative Coupling Reaction of Organosilanes -- 2.3. Other Polymerization Methods -- 2.4. Polysilanes Having Functional Organic Groups -- 2.5. Hybrid Polymers -- 3. PROPERTIES OF POLYSILANES -- 3.1. Sigma Conjugation -- 3.1.1. Electronic Spectra -- 3.2. Chromotropism of Polysilanes -- 3.3. Photochemistry of Polysilanes -- 3.4. Carrier Transport of Polysilanes -- 3.3. Some Possible Technological Application of Polysilanes -- REFERENCES -- INDEX.

Sommario/riassunto

Environmental awareness in recycling and limiting toxic emissions are, indeed, important. However, although not generally known, this book introduces a chemical approach to the problem of environmental pollution in which the aim of the work carried out is to recover and protect our environment.