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Titolo	Chemistry for Sustainable Development [[electronic resource] /] / edited by Minu Gupta Bhowon, Sabina Jhaumeer-Laulloo, Henri Li Kam Wah, Ponnadurai Ramasami
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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	Investigation of Dissolved Nutrients in Tropical Coastal Waters in Mauritius -- The influence of the cage effect on the mechanism of multistage chemical reactions in solutions -- Photoionization Studies of Reactive Intermediates of Importance in the Atmosphere -- Synthesis and Applications of Nano Size Titanium Oxide and Cobalt Doped Titanium Oxide -- Development of Novel Insect Growth Regulators: Effect of 1-(substitutedbenzoyl)-3-[(2'-isopropyl-5'-methylphenoxy)acetamino] thiourea and urea derivatives on Total Haemocyte Count of <i>Dysdercus koenigii</i> -- Preliminary Catalytic Studies using Tyrosine and Phenylalanine Analogues on Selected Baylis-Hillman and Michael Reactions -- Synthesis Structure and Characterization of New Amic Acid Derivatives of 3-Amino-1,2,4-triazole and Their Complexes with Some Metal Ions -- Regioselective Synthesis of Polyfluorinated Pyrazoles and Evaluation of Antimicrobial Activity -- Trapping of a Organomanganese Generated Enolate with an Aldehyde in the Presence of Cu (NCMe) <sub>4</sub> [BF <sub>4</sub> ] -- Radial and Electron Correlation Effects for

Helium and some Helium-like Ions -- Dynamical role of the fictitious orbital mass in Car-Parrinello molecular dynamics -- Novel Liquid Diffusion Tube Determines Electrolytes' Relative, Free Diffusion Velocities, Hydration Numbers and Overwhelmingly Revalidates Electrolytic Diffusion Law -- Reverse Phase Extraction Chromatographic Separation of Trivalent Bismuth Using Liquid Anion Exchanger -- Dry Sliding Wear Behavior of Ultrafine-Grained Mild Steel Processed using Multi Axial Forging -- Thiocyanato Bridged Heterodinuclear Complex [Cu(bpy)<sub>2</sub>(-NCS)Ru(bpy)<sub>2</sub>(NO<sub>3</sub>)](PF<sub>6</sub>)<sub>2</sub> and its Binding with Cd(II), Hg (II), Pb(II) and Ag(I) Ions -- Using Electrochemical Impedance Spectroscopy of Methylene blue and Ferricyanide for DNA Sensing Surface Characterization -- An Investigation into the Use of the Concept Attainment Model in Teaching the "Periodic Table" at 'O'-Level Through an Action Research -- Synthesis, Spectral Characterization and Anticancer Screening of Triorganotin(IV) Carboxylates -- Nonequilibrium Ultrafast Charge Transfer Reactions in Photoexcited Donor-Acceptor Pairs -- Adsorption Studies of Lead, Copper and Cadmium Ions in Aqueous Solution by Ethylene Diamine Modified Amberlite XAD-1180 -- Theoretical Study of Structure, Vibration Spectra and Thermodynamic Properties of Cluster Ions in Vapors over Potassium, Rubidium and Cesium Chlorides -- Environmental Threat to Photochemical and Photobiological Reactions -- Neutral-Neutral Direct Hydroamination Reactions of Substituted Alkenes: A Computational Study on the Markovnikov Selection Rule -- Preparation and Characterization of TiO<sub>2</sub> - ZrO<sub>2</sub> Mixed Oxide Catalysts for Photocatalytic Reduction of Carbon Dioxide -- Modification of Anthraquinone-2-Carboxylic Acid with Multiwalled Carbon Nanotubes and Electrocatalytic Behavior of Prepared Nanocomposite towards Oxygen Reduction -- Synthesis and Biological Activity of Derivatives of 2,2'-Dithiobisbenzamides -- Spectral Studies of Solar Radiation Induced Dye Decoloration in Aqueous Solution -- Optimization of Process Parameters for Enhanced Decolorization of NOVASOL Direct Black Textile Dye by *Agaricus bitorques* -- Chemical composition and antimicrobial activity of Comorian *Ocimum canum* essential oil harvested in the region of Maweni Dimani-Grande Comoros -- Synthesis of five-, six- and seven-membered hetero ring annulated imidazo[4,5-b]carbazoles and azacarbazoles of medicinal interest -- Screening Biochemical Markers for the Prevention of Coronary Heart Disease.

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### Sommario/riassunto

Chemistry for Sustainable Development is a collection of selected papers by participants of the International Conference on Pure and Applied Chemistry (ICPAC 2010) on the theme of "Chemistry for Sustainable Development" held in Mauritius in July 2010. In light of the significant progresses and challenges in the development and implementation of green and sustainable chemistry, this volume reviews the recent results generated by a more efficient use of resources to minimize carbon footprints, to foster the eradication or minimisation of solvent use in chemistry, and to deliver processes which lead to increased harmony between chemistry and the environment. Chemistry for Sustainable Development is written for graduates, postgraduates, researchers in industry and academia who have an interest in the fields ranging from fundamental to applied chemistry.

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