1. Record Nr. UNINA9910155026303321

Titolo	Advances in chemistry research . Volume 34 / / James C. Taylor, editor
Pubbl/distr/stampa	New York : , : Nova science Publishers, , 2017 ©2017
ISBN	9781536104820 (electronic book) 1-5361-0482-5
Descrizione fisica	1 online resource (257 pages) : illustrations
Collana	Advances in Chemistry Research, , 1940-0950
Disciplina	540.724
Soggetti	Chemistry - Research
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Kinetic Study and Theoretical Optimization of the Catalytic Reaction of Alcohols with Dimethylcarbonate -- Linalool: A Key Contributor to the Aroma Nuances in Hoppy Beer, Cocoa Liquor, Wines, and Fermented Tea Beverage -- Neurological Activities of Linalool and Other Fragrant Compounds -- Iridoids: Phytochemistry and Biological Activity A Contemporary Approach to Study of Anthraquinone Dye Structure -- by Tandem Mass Spectrometry -- Use of Mimetic and Catalytic Properties of Phthalocyanine, Porphyrin and Cyclodextrin Compounds Including Artificial and Bioinspired Enzymes in the Development of Electrochemical Sensors -- Qualitative Behavior of Concentration Curves in First Order Chemical Kinetics Mechanisms -- Effect of Anions on Electrochemical Degradation of Perchlorate in Water Using Zero-Valent Titanium -- Poly (Ethylene glycol)-Supported Ruthenium (II) Polypyridyl Complex as a Novel and Recyclable Visible Light Photocatalyst for Organic Syntheses -- Synthesis of Radically Deoxygenated Sugars.
Sommario/riassunto	The authors'of this latest volume discuss recent advances in chemistry research. Chapter One studies theoretical optimization of the catalytic reaction of alcohols with dimethylcarbonate. Chapter Two provides a review of linalool, a key contributor to the aroma nuances in hoppy beers, cocoa liquors, wines and fermented tea beverages. Chapter Three provides a discussion of neurological studies on linalool and

other fragrant compounds. Chapter Four focuses on the phytochemistry and biological activities of iridoids. Chapter Five presents the fragmentation pathways of different anthraquinone-based colorants utilised for structural determination of unknown red colorants obtained from various sources and analysed using HPLC-UV-VIS ESI MS/MS system. Chapter Six researches the process of synthesis, catalysis and mimetic properties obtained with the use of phthalocyanine, porphyrin and cyclodextrin complexes in the development of electrochemical sensors. Chapter Seven investigates first order chemical kinetics mechanisms and obtains general conclusions about the qualitative behavior of the concentrations curves. Chapter Eight discusses the effect of co-anions on perchlorate degradation using zero-valent titanium (ZVT) anode. Chapter Nine studies the use of poly(ethylene glycol)-supported ruthenium(II) polypyridyl complex as a novel and recyclable visible light photocatalyst for organic synthesis. Chapter Ten discusses the synthesis of radically