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Recent Advances In Chemistry Of

The recent upsurge in the quest for metal-based chemotherapeutic agents is a direct manifestation of the scourge of cancer and the promising results exhibited by metal-based compound has particularly encouraged further investigation of different strategies like ligand substitution, modification of existing chemical structures and structure-activity relationship (SAR) studies to enhance their cytotoxic and pharmacokinetic profile.

Recent advances in the chemistry of iron-based ...

This review will summarize recent advances and opportunities to utilize polyhydroxyalkanoates (PHAs) as a biodegradable substitute in some applications where non-biodegradable and petroleum-based plastics are currently used. ... Published by The Royal Society of Chemistry (RSC) on behalf of the European Society for Photobiology, the European ...

Review of recent advances in the biodegradability of ...

Oxidopyrylium [5+2] cycloaddition chemistry: Historical perspective and recent advances (2008\u00262018). Tetrahedron 2018 , 74 (21) , 2501-2521. DOI: 10.1016/j.tet.2018.04.006.

Recent Advances in the Chemistry of Pentafulvenes ...

This review presents an overview of the recent developments in the area of vat dye chemistry for the preparation of  $\pi$ -conjugated molecules and polymers for organic electronic applications. Vat dyes are well-established molecules in the textile colouring and painting industry as they are inexpensive and highly stable. Their optical properties in the visible region are attributed to their highly conjugated sp<sup>2</sup> carbon networks and the presence of functional groups, especially ketones that ...

Recent advances in the chemistry of vat dyes for organic ...

In particular, recent developments in the elegant total chemical synthesis, structural modifications, biosynthesis, and biotransformation of podophyllotoxin and its analogues are summarized. Moreover, a deoxypodophyllotoxin-based chemosensor for selective detection of mercury ion is described.

Recent Advances in the Chemistry and Biology of ...

In recent years, several reviews summarized anticancer, antimicrobial or other bioactive natural products from cyanobacteria or the genus *Lyngbya* [14,, , ].Herein, we firstly discuss the bioactivities of 111 natural products, including nonribosomal peptides, polyketides, terpenoids, alkaloids, and ribosomally synthesized peptides, from marine cyanobacterial genus *Moorea* covering literature ...

Recent advances in chemistry and bioactivity of marine ...

Abstract. Lanthanide ions exhibit unique luminescent properties, including the ability to convert near infrared long-wavelength excitation radiation into shorter visible wavelengths through a process known as photon upconversion. In recent years lanthanide-doped upconversion nanocrystals have been developed as a new class of luminescent optical labels that have become promising alternatives to organic fluorophores and quantum dots for applications in biological assays and medical imaging.

Recent advances in the chemistry of lanthanide-doped ...

Advances in Chemistry-Special Issue; Volume 2018 - Article ID 3121802 - Research Article; QSAR Study of Anthra[1,9-cd]pyrazol-6(2H)-one Derivatives as Potential Anticancer Agents Using Statistical Methods

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Recent advances in the chemistry of allenes

Abstract. This review presents a selection of recent publications related to the chemistry and catalysis of C1 molecules, including methane, methanol, carbon monoxide, and carbon dioxide. These molecules play an important role in the current supply of energy and chemicals and will likely become even more relevant because of the need to decarbonize fuels (shift from coal to natural gas) in line with CO<sub>2</sub> capture and use to mitigate global warming, as well as a gradual shift on the supply side ...

A Selection of Recent Advances in C1 Chemistry | Annual ...

The shaping of metal-organic frameworks (MOFs), referring to the integration of small submillimeter MOF crystals into bulk samples with desired size, shape and mechanical stability, is an important step for the practical use of this class of porous materials in many applications. MOFs are constructed by the 2020 Inorganic Chemistry Frontiers Review-type Articles

Recent advances in the shaping of metal-organic frameworks ...

Recent Advances in Hydride Chemistry. ... This book has been conceived to collect the most important recent advances in all areas of hydride chemistry research, including chemical reactivity, instrumental investigation, theory, and applications in the areas of catalysis, biochemistry and materials science. ...

Recent Advances in Hydride Chemistry | ScienceDirect

Abstract. C1 chemistry, which is the catalytic transformation of C1 molecules including CO, CO<sub>2</sub>, CH<sub>4</sub>, CH<sub>3</sub>OH, and HCOOH, plays an important role in providing energy and chemical supplies while meeting environmental requirements. Zeolites are highly efficient solid catalysts used in the chemical industry.

Applications of Zeolites to C1 Chemistry: Recent Advances ...

Abstract. Most recently, two-dimensional (2D) transition-metal carbides (MXenes) have been demonstrated to be promising electrocatalysts owing to their unique chemical and electronic properties, e.g., metallic conductivity, high hydrophilicity, and tunable surface terminations. Herein, representative progress achieved in MXenes as hydrogen evolution reaction electrocatalysts is reviewed both experimentally and theoretically.

Recent advances in structural engineering of MXene ...

In recent years, investigation interests have been centered on the construction of high-efficiency sulfur cathodes by applying polar metal compounds (MCs) encompassing oxides , , , sulfides , , , carbides , , and nitrides , , to address the aforementioned issues. In contrast with carbon-based mediators such as nanotubes (CNTs) and graphene, MCs provide abundant polar sites suitable for chemical adsorption of LiPSs.

Recent advances of metal phosphides for Li-S chemistry ...

Important early work that has been covered in prior reviews will be discussed briefly to provide context for recent developments. The chemistry of boron dipyrrole (BODIPY) and phthalocyanine dyes as well as substitution with BN units in cluster compounds and graphitic materials, are beyond the scope of this work. This review is organized by research group and will explore how the targeted applications of the products, along with the unique methodologies employed in their synthesis, have ...

Recent Advances in Azaborine Chemistry

Recent Advances in Chain Conformation and Bioactivities of Triple-Helix Polysaccharides. Yan Meng, Yan Meng. College of Chemistry & Molecule Sciences, Wuhan University, Wuhan 430072, China. College of Pharmacy, Hubei University of Chinese Medicine, Wuhan 430065, China.

Recent Advances in Chain Conformation and Bioactivities of ...

Syed Rahin Ahmed, Rohit Chand, Satish Kumar, Neha Mittal, Seshasai Srinivasan, Amin Reza Rajabzadeh, Recent Biosensing Advances in the Rapid Detection of Illicit Drugs, TrAC Trends in Analytical Chemistry, 10.1016/j.trac.2020.116006, (116006), (2020).

Recent Advances on Graphene Quantum Dots: From Chemistry ...

Recent Advances in Design of Fluorescence-Based Assays for High-Throughput Screening Xiaoni Fang Department of Chemistry, University of California, Riverside, California 92521, United States

Recent Advances in Design of Fluorescence-Based Assays for ...

Recent Advances in Analytical Chemistry. Edited by: Muharrem Ince and Olcay Kaplan Ince. ISBN 978-1-78985-809-9, eISBN 978-1-78985-810-5, PDF ISBN 978-1-83962-122-2, Published 2019-04-10

experimental data and references, and each article highlights an important topic in current medicinal chemistry research. Topics covered include: aureolic acid group of anti-cancer antibiotics and non-steroidal anti-inflammatory drugs; aromatase inhibitors in adjuvant endocrine treatment of early-stage breast cancer in postmenopausal women; Rho GTPases and statins in targeting and developing therapies for tumors; and more. Edited and written by leading experts in medicinal chemistry research Reviews recent advances in the field, including the characterization of inorganic nanomaterials as therapeutic vehicles Covers a variety of topical areas, such as HPLC and in the analysis of tricyclic antidepressants in biological samples, and tannins and their influence on health

Recent Advances in Natural Products Analysis is a thorough guide to the latest analytical methods used for identifying and studying bioactive phytochemicals and other natural products. Chemical compounds, such as flavonoids, alkaloids, carotenoids and saponins are examined, highlighting the many techniques for studying their properties. Each chapter is devoted to a compound category, beginning with the underlying chemical properties of the main components followed by techniques of extraction, purification and fractionation, and then techniques of identification and quantification. Biological activities, possible interactions, levels found in plants, the effects of processing, and current and potential industrial applications are also included. Focuses on the latest analytical techniques used for studying phytochemical and other biological compounds Authored and edited by the top worldwide experts in their field Discusses the current and potential applications and predicts future trends of each compound group

This book has been conceived to collect the most important recent advances in all areas of hydride chemistry research, including chemical reactivity, instrumental investigation, theory, and applications in the areas of catalysis, biochemistry and materials science. Many of the chapters have been written by the plenary lecturers of the EURO-Hydrides 2000 conference, but other leading scientists in this field have also been invited to contribute. The first part of the book focuses on the chemistry and catalysis of transition metal hydrides. Another block of chapters illustrates the most recent advances in the application of instrumental techniques to the study of the properties and reactivity of hydride compounds. The final part of the book illustrates the relevance of metal-hydrogen bonds in biochemistry and materials science. All of the chapters of this book have been evaluated by independent reviewers.

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Advances in Clinical Chemistry, Volume 95, the latest installment in this internationally acclaimed series, contains chapters authored by world-renowned clinical laboratory scientists, physicians and research scientists. The serial discusses the latest and most up-to-date technologies related to the field of clinical chemistry, with this new release including sections on Advances in diagnostic microfluidics, Vascular and valvular calcification biomarkers, Long noncoding RNAs in cancer: From discovery to therapeutic targets, Exosomes of male reproduction, Tryptophan in health and disease, Biochemistry of blood platelet activation, and the beneficial role of plant oils in cardiovascular diseases.

Describes the chemistry, structure, and function of polyphenol oxidase. Covers the molecular biology of polyphenol oxidase. Describes the chemistry of enzymatic browning. Provides practical methods for preventing enzymatic browning in fruit and vegetable products. Valuable reading for chemists, molecular biologists, food scientists, and food technologists.

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