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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 (2008–2018). 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 π-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 2 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 2 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

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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 2, CH 4, CH 3 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

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