

side chain functionalized luminescent pdf

Vacant defects bring activity to multimetallic alloys for cathode redox reactions in lithium-sulfur batteries. In their Communication (DOI: 10.1002/anie.201812062), J.-Q. Huang et al. show that the introduction and in situ etching of an extrinsic metal to a monometallic compound activates the originally inert phase for kinetic propelling of polysulfide-involving surface reactions at a ...

Angewandte Chemie International Edition: Early View

Fabrication of TiO₂ (B)/Anatase Heterophase Junctions at High Temperature via Stabilizing the Surface of TiO₂ (B) for Enhanced Photocatalytic Activity

The Journal of Physical Chemistry C (ACS Publications)

1.. IntroductionThe properties and applications of carbon nanotubes (CNTs) and related materials have been very active research fields over the last decade , , .CNTs possess high flexibility, low mass density, and large aspect ratio (typically >1000), whereas predicted and some experimental data indicate extremely high tensile moduli and strengths for these materials.

Carbon nanotube-polymer composites: Chemistry, processing

The first example of transition-metal-free CO₂ hydrogenation to formate catalyzed by BCF/M₂CO₃ was reported with a TON of up to 3941. In their Communication on page 722 ff., X. B. Hu, Y. T. Wu, and co-workers show mechanistic studies that revealed that BCF reacted with K₂CO₃ to afford the Lewis pair K₂[(BCF)₂-CO₃], which can react with H₂ and CO₂ to produce formate.

Angewandte Chemie International Edition - Wiley Online Library

Organic-inorganic perovskite solar cells have recently emerged at the forefront of photovoltaics research. Power conversion efficiencies have experienced an unprecedented increase to reported values exceeding 19% within just four years. With the focus mainly on efficiency, the aspect of stability has so far not been thoroughly addressed. In this paper, we identify thermal stability as a ...

Carbon Nanotube/Polymer Composites as a Highly Stable Hole

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Methods and Applications in Fluorescence - IOPscience

American Scientific Publishers - ADVANCED SCIENCE LETTERS

Abstract. Biosafety is the primary concern in clinical translation of nanomedicine. As an intrinsic ingredient of human blood without immunogenicity and encouraged by its successful clinical application in Abraxane, albumin has been regarded as a promising material to produce nanoparticles for bioimaging and drug delivery.

Strategies for Preparing Albumin-based Nanoparticles for

Molecular imprinting (MI) represents a strategy to introduce a "molecular memory"™ in a polymeric system obtaining materials with specific recognition properties. MI particles can be used as drug delivery systems providing a targeted release and thus reducing the side effects. The introduction of molecular recognition properties on a polymeric drug carrier represents a challenge in the ...

Molecularly imprinted polymeric micro- and nano-particles

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1. Introduction1.1. Metal organic frameworks. Metal-organic frameworks (MOFs) are crystalline materials composed of metal ions (or metal clusters) and organic linkers , , , .As a novel class of porous materials, MOFs have attracted great attention in recent years owing to their high surface area and permanent porosity.

Metal organic frameworks for energy storage and conversion

1. Introduction. Zinc oxide, with its unique physical and chemical properties, such as high chemical stability, high electrochemical coupling coefficient, broad range of radiation absorption and high photostability, is a multifunctional material [1,2].In materials science, zinc oxide is classified as a semiconductor in group II-VI, whose covalence is on the boundary between ionic and covalent ...

Materials - MDPI

[479] Simple molecular-engineering approach for enhancing orientation and out-coupling efficiency of thermally activated delayed fluorescent emitters without red-shifting emission

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Professor Frances Kirwan Oxford University (United Kingdom) Frances Kirwan is the Savilian Professor of Geometry at the Mathematical Institute in Oxford. Her research lies in the area of algebraic geometry (mostly over the field of complex numbers) and its links with other parts of geometry, especially symplectic (and hyperkähler) geometry.

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