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Mesoporous Organic Inorganic Non Siliceous Hybrid

This book provides extensive information on organic-inorganic hybrid materials with controllable compositions and structures developed over the past few decades, including metal sulfonates, carboxylates, phosphonates, metal-organic frameworks (MOFs), etc.

Mesoporous Organic-Inorganic Non-Siliceous Hybrid

Request PDF on ResearchGate | On Sep 10, 2014, Yun-Pei Zhu and others published Mesoporous Organic-Inorganic Non-Siliceous Hybrid Materials: Basic Principles and Promising Multifunctionality

Mesoporous Organic-Inorganic Non-Siliceous Hybrid

Recent progress in mesoporous materials has been extended to chemically designed non-siliceous inorganic-organic hybrid materials including metal phosphonates, carboxylates and sulfonates.

Mesoporous non-siliceous inorganic-organic hybrids: a

The area of periodic mesoporous materials prepared by cooperative assembly in the presence of amphiphile molecules underwent dramatic growth. Among the silica-based materials, many types may be regarded as ordered organic-inorganic nanocomposites.

Periodic Mesoporous Silica-Based Organic-Inorganic

SPRINGER BRIEFS IN MOLECULAR SCIENCE Yun-Pei Zhu Zhong-Yong Yuan Mesoporous Organic-Inorganic Non-Siliceous Hybrid Materials Basic Principles and Promising

Yun-Pei Zhu Zhong-Yong Yuan Mesoporous Organic-Inorganic

Applications of organic-inorganic non-siliceous hybrid materials are emerging. But the developments of mesoporous hybrid materials lag far behind the achievements in syntheses. More strictly, there has been no breakthrough yet in practical applications. However, vital commercial applications are

Modification and Potential Applications of Organic

Novel mesoporous organic-inorganic spherical hybrid particles are described that contain a 3-hydroxypropyl organic functionality which is integral to the pore surface. The 3-hydroxypropyl hybrid particle is synthesized in three steps starting from a 4:1 (mol/mol) mixture of tetraethoxysilane and [3-(methacryloxy)propyl]trimethoxysilane, where ...

Synthesis and Surface Chemistry of Spherical Mesoporous

The outmost organic-inorganic hybrid shells of the dual-mesoporous silica nanocomposites act as a

protective layer of the perovskite QDs against water and endow the nanocomposites with superhydrophobicity. This work provides an alternative inspiration for the design of new two-photon pumped nanolasers.

All-inorganic CsPbBr₃ perovskite quantum dots embedded in

From purely inorganic, organic-inorganic hybrid to purely organic—an overview of the surfactant-assisted synthetic pathways of all these ordered and disordered mesoporous materials are depicted elaborately in this review. Since there is a large number of research and synthesis works randomly reported on a wide spectrum of mesoporous materials, a good review on the formation mechanism of ...

Soft templating strategies for the synthesis of mesoporous

PDF | Mesoporous metal-organic frameworks (meso-MOFs) are emerging as promising functional materials for heterogeneous catalysis due to their high surface area, porosity, readily adjustable ...

(PDF) Heterogeneous catalysts based on mesoporous metal

With pore sizes in the range of 20–500 Å... mesoporous materials are of use for extending zeolite-type chemistry, which is based on materials with a pore size of around 7 Å..., to larger molecules.

Mesoporous inorganic solids - Behrens - 1993 - Advanced

Organic-inorganic hybrid mesoporous anion-exchange resins based on either pure silica or organosilica support materials were prepared and tested for the adsorption of perrhenate (ReO₄⁻) anions in aqueous solutions. The prepared samples were characterized using nitrogen adsorption-desorption measurements, Fourier transform infrared ...

Synthesis and Characterization of Organic-Inorganic Hybrid

Novel mesoporous organic-inorganic hybrid tantalum oxophenylphosphate has been synthesized hydrothermally by self-assembly of anionic surfactant sodium dodecyl sulfate (SDS) as structure directing agent under mild alkaline pH conditions.

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