

Advanced eBook Information

Metal-Organic Framework Composites

Volume II

Eds. Anish Khan, Francis Verpoort, Mohammed Muzibur Rahman, Ilyas MD Isa, Abdullah M. Asiri, Malik Abdul Rub

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The book focusses on the following applications: gas capture and storage, especially molecular hydrogen storage; performance enhancement of Li-ion batteries; gas separation, nano-filtration, ionic sieving, water treatment, and catalysis, etc.

Keyword: MOF Materials, Hydrogen Storage, Renewable Energy Applications, Lithium Batteries, MOF-Quantum Dots, Clean Energy, Nanoporous MOFs, Supercapacitors, Therapeutic Applications, Biosensing, Bioimaging, Phototherapy of Cancer, Gas Separation, Nano-filtration, Ionic Sieving, Water Treatment, Drug Delivery, Theranostics; Nanoparticle Photosensitizers, Photodynamic Therapy (PDT), Photothermal Therapy (PTT)

ISBN 13: 978-1-64490-043-7, **Publication Date:** 2019 (10/25/2019)**Direct URL:** http://www.mrforum.com/product/metal-organic-framework-composites_II
426 pages, PDF eBook DRM Free, USD 125.00*Materials Research Foundations Vol. 58* / **BISAC:** TEC021000 / **BIC/Thema:** TGM**Imprint:** Materials Research Forum LLC, *Publisher's sales rights are Worldwide*

Summary:

Because of their nanoporous structures and ultra-high surface areas Metal-Organic Framework Composites (MOFs) are very interesting materials. The book focusses on the following applications: gas capture and storage, especially molecular hydrogen storage; performance enhancement of Li-ion batteries; gas separation, nano-filtration, ionic sieving, water treatment, and catalysis; sustainable renewable energy resources, electrochemical capacitors, including supercapacitors, asymmetric supercapacitors and hybrid supercapacitors; biomedical disciplines including drug delivery, theranostics; biological detection and imaging; nanoparticle photosensitizers for photodynamic therapy (PDT) and photothermal therapy (PTT).



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Handbook / color print, paperback

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