

Metal-Organic Framework Composites

Volume I

Eds. Anish Khan, Baha M Abu-Zaid, Mahmoud A. Hussein, Abdullah M. Asiri, Mohammad Azam

PDF eBook / PDF eBook DRM Free

The present book covers design, synthesis and preparation of various MOFs, as well as the resulting product characteristics: homogenous morphology, small size dispersion, high thermal stability and desired surface area.

Keyword: Metal-Organic Frameworks (MOFs), Composites Based on MOFs, Energy Storage, Catalysts, Environmental Sensors, Environment Safety, Industrial Wastewater Treatment, Enzyme Encapsulation, Composite Characterization, Electrochemical Sensors, Metallizing Polymer Fibers, Electroless Coatings, Radio Frequency (RF) Ion Sputtering, High Velocity Oxygen Fuel (HVOF), Thermal Spray Processes, Metal-polymer Composites, Green Applications, Clean Energy, Water Adsorption, Water Harvesting, High Performance Polymer Fibre-Metal Matrix Composites, Layered Rare Earth Hydroxides, Nanocarbon Synthesis, Polyoxometalate-Based MOFs Composites

ISBN 13: 978-1-64490-029-1, **Publication Date:** 2019 (7/20/2019)

Direct URL: http://www.mrforum.com/product/metal-organic-framework-composites_I

286 pages, PDF eBook DRM Free, USD 125.00

Materials Research Foundations Vol. 53 / **BISAC:** TEC021000 / **BIC/Thema:** TGM

Imprint: Materials Research Forum LLC, *Publisher's sales rights are Worldwide*

Summary:

Composites based on Metal-organic frameworks (MOFs) have exceptional physical and chemical properties and offer a great number of advanced applications in such fields as energy storage, energy conversion by catalysis, sensors for environmental applications, environment safety and industrial wastewater treatments. They also have interesting medical applications, such as encapsulation of enzymes. The present book covers design, synthesis and preparation of various MOFs, as well as the resulting product characteristics: homogenous morphology, small size dispersion, high thermal stability and desired surface area.



Metal-Organic Framework Composites

Volume I

Eds. Anish Khan, Baha M Abu-Zaid, Mahmoud A. Hussein, Abdullah M. Asiri, Mohammad Azam

Handbook / color print, paperback

The present book covers design, synthesis and preparation of various MOFs, as well as the resulting product characteristics: homogenous morphology, small size dispersion, high thermal stability and desired surface area.

Keyword: Metal-Organic Frameworks (MOFs), Composites Based on MOFs, Energy Storage, Catalysts, Environmental Sensors, Environment Safety, Industrial Wastewater Treatment, Enzyme Encapsulation, Composite Characterization, Electrochemical Sensors, Metallizing Polymer Fibers, Electroless Coatings, Radio Frequency (RF) Ion Sputtering, High Velocity Oxygen Fuel (HVOF), Thermal Spray Processes, Metal-polymer Composites, Green Applications, Clean Energy, Water Adsorption, Water Harvesting, High Performance Polymer Fibre-Metal Matrix Composites, Layered Rare Earth Hydroxides, Nanocarbon Synthesis, Polyoxometalate-Based MOFs Composites

ISBN 13: 978-1-64490-028-4, **Publication Date:** 2019 (7/20/2019)

Direct URL: http://www.mrforum.com/product/metal-organic-framework-composites_I

286 pages, color print, paperback, USD 125.00

Materials Research Foundations Vol. 53 / **BISAC:** TEC021000 / **BIC/Thema:** TGM

Imprint: Materials Research Forum LLC, *Publisher's sales rights are Worldwide*

Summary:

Composites based on Metal-organic frameworks (MOFs) have exceptional physical and chemical properties and offer a great number of advanced applications in such fields as energy storage, energy conversion by catalysis, sensors for environmental applications, environment safety and industrial wastewater treatments. They also have interesting medical applications, such as encapsulation of enzymes. The present book covers design, synthesis and preparation of various MOFs, as well as the resulting product characteristics: homogenous morphology, small size dispersion, high thermal stability and desired surface area.

