## **Advanced eBook Information**



Materials Research Solid State Physics and Engineering

# **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



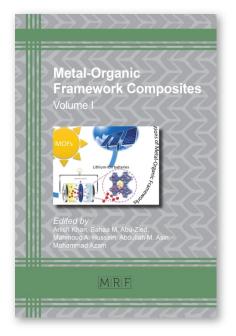
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286 pages, PDF eBook DRM Free, USD 125.00

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#### 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.



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Handbook / color print, paperback

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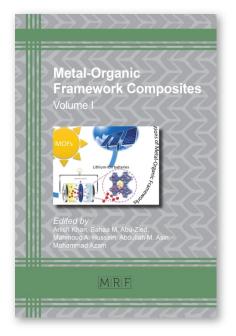
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