



Adsorption on Mesoporous Metal-Organic Frameworks in Solution: An Introduction and Applications for Energy, Environment and Healthcare

Alexander Samokhvalov

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Metal-Organic Frameworks are well-ordered 3-dimensional organic-inorganic polymers that contain metal cations and structure-building organic "linker" units. Adsorption and desorption in solution play major roles in environmental remediation, clean fossil fuels, pharmaceuticals, biomedical applications, separations, chromatographic analysis, and catalysis. This is a very active field of research due to the properties, structure and chemical composition of mesoporous MOFs. This book provides critical analysis of available data on adsorption and desorption on mesoporous MOFs in solution. It highlights major achievements, challenges, trends and the future outlook in research and applications.

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