Metal-Organic Frameworks: Design and Application
Leonard R. MacGillivray (Editor)

**DESCRIPTION**

Metal-organic frameworks represent a new class of materials that may solve the hydrogen storage problem associated with hydrogen-fueled vehicles. In this first definitive guide to metal-organic framework chemistry, author L. MacGillivray addresses state-of-art developments in this promising technology for alternative fuels. Providing professors, graduate and undergraduate students, structural chemists, physical chemists, and chemical engineers with a historical perspective, as well as the most up-to-date developments by leading experts, *Metal-Organic Frameworks* examines structure, symmetry, supramolecular chemistry, surface engineering, metal-organometallic frameworks, properties, and reactions.

**ABOUT THE AUTHOR**

Leonard R. MacGillivray is an Associate Professor of Chemistry at the University of Iowa. His research focuses on processes of molecular self-assembly, particularly its application to organic synthesis. In 2002, he was awarded a 2002 National Science Foundation CAREER Award and a Research Corporation Research Innovation Award. In 2004, he received the Young Investigator Award of the Inter-American Photochemical Society and the Etter Early Career Award of the American Crystallographic Association. Dr. MacGillivray was elected a Fellow of the Royal Society of Chemistry in 2006 and received a 2007 Cope Scholar Award from the American Chemical Society. He has published 140 manuscripts and sits on six editorial boards.
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