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| Nota di contenuto | Cover -- Title Page -- Copyright -- Contents -- Preface -- Chapter 1 Engineering of Metal Active Sites in MOFs -- 1.1 Metal Node Engineering -- 1.1.1 Frameworks with Intrinsically Active Metal Nodes -- 1.1.1.1 Metal–Organic Frameworks with Only One Metal -- 1.1.1.2 Metal–Organic Frameworks with more than One Metal in its Cluster -- 1.1.2 Introducing Defectivity as a Powerful Tool to Tune Metalnode Catalytic Properties in MOFs -- 1.1.3 Incorporating Metals to AlreadySynthetized Metal–Organic Frameworks: Isolating the Catalytic Site -- 1.1.4 Metal Exchange -- 1.1.5 Attaching Metallic Units to the MOF -- 1.1.6 Grafting of Organometallic Complexes into the MOF Nodes -- 1.2 Ligand Engineering -- 1.2.1 Ligands as Active Metal Sites -- 1.2.1.1 Creating Metal Sites in the Organic Linkers. Types of Ligands -- 1.2.1.2 Cooperation Between Single Metal Sites and Metalloligands -- 1.2.1.3 Ligand Accelerated Catalysis (LAC) -- 1.2.2 Introduction of Metals by Direct Synthesis -- 1.2.2.1 Insitu Metalation -- 1.2.2.2 Premetalated Linker -- 1.2.2.3 Postgrafting Metal Complexes -- 1.2.3 Introduction of Metals by Postsynthetic Modifications -- 1.2.3.1 Postsynthetic Exchange or SolventAssisted Linker Exchange (SALE) -- 1.2.3.2 Post synthetic Metalation -- 1.3 MetalBased Guest Pore Engineering -- 1.3.1 Encapsulation Methodologies in AsMade Metal–Organic Frameworks -- 1.3.1.1 Incipient Wetness Impregnation |

Sommario/riassunto

This book, edited by Hermenegildo Garcia and Amarajothi, delves into the synthesis and applications of catalysis within confined frameworks, focusing particularly on metal-organic frameworks (MOFs) and other porous materials. It explores the engineering of metal active sites, porosity, and the use of mixed linkers in MOFs to enhance catalytic efficiency. The text covers various aspects such as the structure, chemical environment, and confinement effects on catalysis, providing insights into the mechanisms and applications in fields like oil refining and pollutant degradation. Intended for researchers and professionals in chemistry and materials science, it aims to present advanced methodologies and their practical applications in catalysis.