

Contents

Metal–Organic Frameworks: From Design to Materials	1
Jie-Peng Zhang and Xiao-Ming Chen	
Luminescent Properties and Applications of Metal–Organic Frameworks	27
Yuanjing Cui, Banglin Chen, and Guodong Qian	
Metal–Organic Frameworks for Photocatalysis	89
Teng Zhang and Wenbin Lin	
Metal–Organic Frameworks for Photochemical Reactions	105
Raghavender Medishetty and Jagadese J. Vittal	
Metal–Organic Frameworks for Second-Order Nonlinear Optics	145
Shaowu Du and Huabin Zhang	
Host–Guest Metal–Organic Frameworks for Photonics	167
Kenji Hirai, Paolo Falcaro, Susumu Kitagawa, and Shuhei Furukawa	
Index	187