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Titolo	Coordination polymers and metal organic frameworks : properties, types and applications / / Oscar L. Ortiz and Luis D. Ramirez, editors
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Collana	Chemical engineering methods and technology Materials science and technologies
Altri autori (Persone)	OrtizOscar L RamirezLuis D
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Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Hybrid vandates, towards metal-organic frameworks -- Structure and magnetic properties of mono - and polynuclear complexes containing rhenium(IV) -- The applications ofmetal organic frameworks in the fields of hydrogen storage and catalysis -- MOF-based mixed-matrix-membranes for industrial applications -- Cooridination polymers : opportunities in heterogeneous catalysis -- High pressure gas storage on porous solids : a comparative study of MOFs and activated carbons -- Metal-organic frameworks for CO 2 capture : what are learned from molecular simulations -- Halogen bonding in the assembly of high-dimensional supramolecular coordination polymers -- Subtractive approach for introducing functional groups onto metal-organic framework -- Performance of metal-organic framework MIL-101 in the liquid phase adsorption of heterocyclic nitrogen compounds.
Sommario/riassunto	In this book, the authors present topical research in the study of coordination polymers and metal organic frameworks. Topics discussed include hybrid vanadates and metal organic frameworks; structure and magnetic properties of mono- and poly-nuclear complexes containing Re(IV)I; metal organic framework applications in the fields of hydrogen storage and catalysis; MOF-Based mixed-matrix-membranes for industrial applications; coordination polymers in heterogeneous catalysis; high pressure gas storage on porous solids; metal organic

frameworks for CO₂ capture and halogen bonding in the assembly of high-dimensional supramolecular coordination polymers.
