

1. Record Nr.	UNINA9910785239103321
Titolo	Handbook of transition metal polymerization catalysts [[electronic resource] /] / edited by Ray Hoff, Robert T. Mathers
Pubbl/distr/stampa	Hoboken, N.J., : Wiley, c2010
ISBN	1-282-81669-1 9786612816697 0-470-50443-9 0-470-50442-0
Descrizione fisica	1 online resource (599 p.)
Classificazione	VH 7900 VH 9700 VK 8000
Altri autori (Persone)	HoffRaymond E MathersRobert T
Disciplina	668.9/2
Soggetti	Polymerization Transition metal catalysts Metathesis (Chemistry)
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	HANDBOOK OF TRANSITION METAL POLYMERIZATION CATALYSTS; CONTENTS; Introduction; About the Authors; 1 Commercially Available Metal Alkyls and Their Use in Polyolefin Catalysts; 2 Porous Silica in Transition Metal Polymerization Catalysts; 3 Computational Modeling of Polymerization Catalysts; 4 Scale-Up of Catalyst Recipes to Commercial Production; 5 Commercialization of Olefin Polymerization Catalysts: Model for Success; 6 Supported Magnesium/Titanium-Based Ziegler Catalysts for Production of Polyethylene; 7 Stereospecific -Olefin Polymerization with Heterogeneous Catalysts 8 MgCl(2)-Supported TiCl(4) Catalysts for Production of Morphology- Controlled Polyethylene9 Product Morphology in Olefin Polymerization with Polymer Supported Metallocene Catalysts; 10 Review of Phillips Chromium Catalyst for Ethylene Polymerization; 11 Silica-Supported Silyl Chromate-Based Ethylene Polymerization Catalysts; 12 Ethylene Polymerization and -Olefin Oligomerization Using Catalysts Derived

from Phosphoranes and Ni(II) and Ni(0) Precursors; 13 Late Transition Metal-Catalyzed Co- and Terpolymerization of α -Olefins with Carbon Monoxide-Polyketones: Synthesis and Modification
14 Copper Catalysts for Olefin Polymerization
15 Ring-Opening Metathesis Polymerizations and Acyclic Diene Metathesis Polymerizations with Homogeneous Ruthenium and Molybdenum Catalysts and Initiators; 16 Cobalt Ziegler-Natta Catalysts for Synthesis of Poly-cis-1,4-Butadiene; Appendix A Pyrophoricity of Metal Alkyls; Appendix B Rheological Terms for Polymerization Catalyst Chemists; Index

Sommario/riassunto

A one-stop resource for understanding and applying polymerization catalysts. An edited volume featuring contributions from leading researchers, the Handbook of Transition Metal Polymerization Catalysts covers the design and synthesis of catalysts, and their applications in synthesis of polymers. Dealing with those polymerization catalysts that afford commercially acceptable yields of polymer with respect to catalyst mass and promising newer catalysts, this practical reference provides polymer and organic chemists with a comprehensive overview of the known methods for developing
