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Synthesis and Photocatalytic Performance of Hierarchical Porous Titanium Phosphonate Hybrid MaterialsRole of Nanocrystalline Titania Phases in the Photocatalytic Oxidation of NO at Room Temperature; Chitin/TiO2 Composite for Photocatalytic Degradation of Phenol; Catalysts for Petroleum Hydrotreating; Catalytic Properties of Ni-Mo Carbide and Nitride Phases Supported on SBA-15 and -16 in the Hydrodesulfurization of DBT; Oxidative Removal of Dibenzothiophene by H2O2 over Activated Carbon-Supported Phosphotungstic Acid Catalysts
Adsorptive Removal of Dibenzothiophene in Diesel Fuel on an Adsorbent from Rice Hull Activated by Phosphoric AcidAdsorption of Dibenzothiophene on Transition Metals Loaded Activated Carbon; Catalysts for Petroleum Refining; Studies on the Catalytic Activity of Sulfated Zirconia Promoted with Cerium Oxide; Isomerization of Pinene with Al- and Ga-Modified MCM-41 Mesoporous Materials; Yb2O3 Promoted Pt-SO42-/ZrO2-Al2O3 Catalyst in N-Hexane Hydroisomerization ; Effect of Hydrothermal Conditions on Isomerization Activity of Pt/SO42--ZrO2
Alkylation of Benzene with Propylene over H3PW12O40 Supported on MCM-41 and -48 Type Mesoporous MaterialsCatalysts for Fuel Production; Hydrogen Production by Steam Reforming of Methanol over a Ag/ZnO One Dimensional Catalyst; Basic Ion Exchange Resins as Heterogeneous Catalysts for Biodiesel Synthesis; A Novel La2O3-ZnO/ZrO2 Solid Superbase and its Catalytic Performance for Transesterification of Soybean Oil to Biodiesel; Refinery Oil Fraction Fuels Obtained from Polyethylene Catalytic Cracking Employing Heteropolyacid-MCM-41 Materials
Synthesis Optimization of SAPO-34 in the Presence of Mixed Template for MTO Process

Sommario/riassunto

The search for new catalytic materials has grown into a very important multidisciplinary research field; including novel strategies for catalytic materials synthesis, control and manipulation of solid-state chemistry and surfaces, innovative characterization techniques and rapidly expanding catalysis applications, and has thus attracted the attention of large numbers of scientists and engineers all over the world. This special volume on Advanced Materials Research comprises new contributions covering aspects of catalyst preparation and characterization, as well as various applications of catal