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Nota di contenuto	Advances in New Catalytic Materials; Preface and Committees; Table of Contents; Plenary Lecture; Nanostructured Materials for Hydrogen Storage; Catalysts Synthesis and Characterization; Influences of Surface Chemistry on Dehydrogenation Kinetics of Ammonia Borane in Porous Carbon Scaffold; Observation on the Structure of Ordered Mesoporous Materials at High Temperature via In Situ X-Ray Diffraction; Synthesis of Si-Based Mesoporous Materials with Different Structural Regularity Comparative Studies of the CoMo/MgO, CoMo/Al ₂ O ₃ and CoMo/MgO-MgAl ₂ O ₄ Catalysts Prepared by a Urea-Matrix Combustion MethodZnAlFe Mixed Oxides Obtained from LDH Type Materials as Basic Catalyst for the Gas Phase Acetone Condensation; Structure Sensitivity of Sol-Gel Alkali Tantalates, ATaO ₃ (A= Li, Na and K): Acetone Gas Phase Condensation; Phase Stabilization of Mesoporous Mn-Promoted ZrO ₂ : Influence of the Precursor; Environmental Catalysis; Promotional Effect of Gadolinia on CuO Catalyst for Reduction of NO by Activated Carbon

Synthesis and Photocatalytic Performance of Hierarchical Porous Titanium Phosphonate Hybrid Materials; Role 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 Acid; Adsorption 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 Materials; Catalysts 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
