New Materials for Catalytic Applications

Description: New Materials for Catalytic Applications proposes the use of both new and existing materials for catalytic applications, such as zeolites, metal oxides, microporous and mesoporous materials, and monocrystals. In addition, metal-oxides are discussed from a new perspective, i.e. nano- and photocatalytic applications.

The material presents these concepts with a new focus on strategies in synthesis, synthesis based on a rational design, the correlation between basic properties/potential applications, and new catalytic solutions for acid-base, redox, hydrogenation, photocatalytic reactions, etc.

- Presents organometallic concepts for the synthesis of nanocatalysts
- Provides a synthesis of new materials following the fluorolsyl sol-gel concept
- Covers electronic and photocatalytic properties via synthesis of nano-oxide materials
- Details the nature of sites in MOFs generating catalytic properties immobilization of triflates in solid matrices for organic reactions

Contents: New materials for catalytic applications

1. Double metal cyanides as heterogeneous catalysts for organic reactions
   Dirk De Vos

2. MOFs as catalysts of organic reactions
   Hermenegildo Garcia

3. On the use of organometallic concepts for the synthesis of nanocatalysts
   Karine Philippot

4. Catalysts on metallic surfaces: monoliths and microreactors
   Miguel Ángel Centeno

5. Metal Oxide Nanostructures and Their Development and Perspective in Photoreduction of Carbon Dioxide to Fuel
   Ryan Richards

6. Nano-metal fluorides in heterogeneous catalysis
   Erhard Kemnitz

7. Metal oxides and fluorinated metal oxides as heterogeneous catalysts for use with Chloro- and Fluoro-carbons
   David Lennon and John Michael Winfield

8. Mesoporous materials incorporating metal triflates
   Pedro Amoros

9. Nitrogen-doped carbon composites as metal-free for catalysis
   Cuong Pham-Huu
10. Metal sulphides: novel synthesis methods and recent developments in hydrotreatment and photocatalysis

Gilles Daniel Berhault

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