



# New Materials for Catalytic Applications

*Vasile I. Parvulescu, Erhard Kemnitz*

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*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 fluorolytic 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

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