



Molecular Chemistry of Sol-Gel Derived Nanomaterials

By Robert Corriu, Nguyen Trong Anh

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Presenting the wide range of synthetic possibilities opened by sol-gel processes in the field of organic-inorganic materials, *Molecular Chemistry of Sol-Gel Derived Nanomaterials* discusses the state of the art in the synthesis of the various nanomaterials. The text includes examples of applications, including photoluminescent nanocomposites, grafted nanomaterials for selective separations of ions or isotopes, for cascade syntheses, chelation of transition metals and lanthanides by lamellar structured nanomaterials, and immobilized enzymes on mesoporous nanomaterials. This indispensable text for graduate students, engineers, and scientists concludes with a look toward future developments.

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Review

"The authors argue convincingly in their preface that nanotechnology should not be associated exclusively with miniaturization and physics. The 'bottom-up' approach is indeed the natural way that chemists think about matter: from bonds and molecules to the material." (*Angewandte Chemie International Edition*, 2009)

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