Molecular Chemistry of Sol-Gel Derived Nanomaterials
Robert Corriu, Nguyen Trong Anh

**DESCRIPTION**

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.

**ABOUT THE AUTHOR**

Robert Corriu is Emeritus Professor at the Institut Charles Gerhardt at the Université Montpellier II (France). In 1957, Professor Corriu started his academic career and later, in 1991, he became the chair of Molecular Chemistry at the Institut Universitaire de France. The same year he was also elected to the Institut de France (National Sciences Academy) and, in 2001, to the National Academy of Technologies and to the Polish Academy of Sciences in 2002. He was awarded the SUE Award by the French Chemical Society, the Lebel Award, an award from the Japan Society for Promotion of Science, the ACS Kipping Award, and received awards from the Humboldt Foundation and Max Planck Society and he obtained the Wacker prize and the Wittig Grignard Award. Professor Corriu has published over 700 papers including about 80 reviews or chapters of books. He also has a patent.
application for a method for preparing organic-inorganic hybrid materials with controlled porosity and functionality for separating gases and is the editor of two books.

**Nguyen Trong Anh** is a former professor at the Ecole Polytechnique and Directeur de Recherche au Centre National de la Recherche Scientifique (France). He is the author of four books including *Frontier Orbitals* published by John Wiley and Sons in 2007.

For additional product details, please visit [https://www.wiley.com/en-us](https://www.wiley.com/en-us)