

Handbook Of Sol Gel Science And Technology Processing

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Sol-Gel Science: The Physics and Chemistry of Sol-Gel Processing presents the physical and chemical principles of the sol-gel process. The book emphasizes the science behind sol-gel processing with a chapter devoted to applications.

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A decade after, Professor Klein, Doctor Aparicio, and Professor Jitianu started to work on the second edition having Professor Sakka as one of the main advisors. The second edition has been significantly updated and enriched and offers a comprehensive view of sol-gel processing, new characterization techniques, and novel applications. The comprehensive scope and integrated address of topics make this reference volume ideal for scientists and engineers across a wide range of disciplines and ...

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Sol-gel technology is a contemporary advancement in science that requires taking a multidisciplinary approach with regard to its various applications. This book highlights some applications of the sol-gel technology, including protective coatings, catalysts, piezoelectric devices, wave guides, lenses, high-strength ceramics, superconductors ...

~~Sol-Gel Chemistry Applied To Materials Science ebook PDF ...~~

The Journal of Sol-Gel Science and Technology (JSST) provides an international forum for the dissemination of scientific, technological, and general knowledge about materials processed by chemical nanotechnologies known as the "sol-gel" process.

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This review covers the basics of sol-gel technology and the chemistry of alkoxyxilanes, which are the most valuable sol-gel precursors in preparation of sol-gel materials and coatings. Results from early and recent studies are presented showing that sol-gel coatings provide strong corrosion protection for metals.

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L.C. Klein, M. Aparicio, A. Jitianu "Handbook of Sol-Gel Science and Technology; Processing Characterization and Applications, Springer New York, Second edition - expected to be publish in 2017 M. Apparicio, A. Jitianu, L.C. Klein "Sol-Gel Processing for Conventional and Alternative Energy" Springer- New York, February, 2012

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In materials science, the sol-gel process is a method for producing solid materials from small molecules. The method is used for the fabrication of metal oxides, especially the oxides of silicon (Si) and titanium (Ti).

~~Sol-gel process - Wikipedia~~

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