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The Sol-Gel Handbook - Synthesis, Characterization, and ...

A gel consists of a porous, three-dimensionally continuous solid network surrounding and supporting a continuous liquid phase ("wet gel"). In most sol-gel systems for the synthesis of oxide materials, gelation (i.e., formation

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of the gels) is due to the formation of covalent bonds between the sol particles. Gel formation can be reversible when other bonds are involved, such as van der Waals forces or hydrogen bonds.

Part One Sol Gel Chemistry and Methods

Sol-gel materials are metastable solids

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that are formed in kinetically controlled reactions from molecular precursors, which constitute the building blocks for the later materials. This chapter discusses in detail the chemical and physical principles behind the individual steps of sol-gel processing.

Chemistry and Fundamentals of the

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Sol-Gel Process - The ...

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 and titanium. The process involves conversion of monomers into a colloidal solution that acts as the precursor for an

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integrated network of either discrete particles or network polymers. Typical precursors are metal alkoxides.

Sol-gel process - Wikipedia

This completely updated and expanded second edition stands as a comprehensive knowledgebase on both the fundamentals and applications of

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this important materials processing method. The diverse, international team of contributing authors of this reference clarify in extensive detail properties and applications of sol-gel science and technology as it pertains to the production of substances, active and non-active, including optical, electronic, chemical, sensor, bio- and structural

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Handbook of Sol-Gel Science and Technology | SpringerLink

Sol-gel method is an outstanding route for the synthesis of NPs and nanocomposites consisting of the preparation of a sol, successive gelation, and solvent removal.

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Sol-Gel - an overview | ScienceDirect Topics

This comprehensive three-volume handbook reviews the current state together with the latest developments, resulting in an indispensable resource that comprehensively treats all important aspects of sol-gel technology,

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including synthesis, properties and
applications.

Wiley-VCH - The Sol-Gel Handbook

Sol-gel process is also used for synthesis of metal NPs doped inorganic-organic hybrid films such as organically modified silica (ORMOSIL). In this case, organically modified metal alkoxides (e.g., 3-

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(glycidoxypropyl) trimethoxysilane, GLYMO) are co-hydrolyzed with different alkoxides.

Sol Gel Process - an overview | ScienceDirect Topics

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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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