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

Volume One: Synthesis and Processing Part One Sol-Gel Chemistry and Methods 1 1 Chemistry and Fundamentals of the Sol-Gel Process 3 Ulrich Schubert 1.1 Introduction 3 1.2 Hydrolysis and Condensation Reactions 4 1.2.1 Silica-Based Materials 4 1.2.1.1 Precursor(s) 9 1.2.1.2 Catalyst (pH) 9 1.2.1.3 Alkoxo Group/H2O Ratio (Rw) 9 1.2.1.4 Solvent 10

Sol-gel process - Wikipedia

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, including synthesis, properties and applications.

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Sol-gel process provides a new approach to the preparation of new materials. This process allows a better control of the whole reactions involved during the synthesis of solids. Homogenous multi-component systems can be easily obtained, particularly homogenous mixed oxides can be prepared by mixing the molecular precursors solutions (1).

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The Sol-Gel Handbook

sol-gel systems for the synthesis of oxide materials, gelation (i.e., formation 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. The structure of a gel network depends to a large extent on the size and shape of the sol particles.

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Part One Sol Gel Chemistry and Methods

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 materials.

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Wiley-VCH - The Sol-Gel Handbook

The synthesis of the latices, sol-gel processing, and calcination are described, together with the characterization of the inorganic gels.

Handbook of Sol-Gel Science and Technology

The sol-gel approach is a cheap and low-temperature technique that allows the fine control of the product's chemical composition. Even small quantities of dopants, such as organic dyes and rare-earth elements , can be introduced in the sol and end up uniformly dispersed in the final product.

The Sol Gel Handbook Synthesis

The first volume, dedicated to synthesis and shaping, gives an in-depth overview of the wet-chemical processes that constitute the core of the sol-gel method and presents the various pathways for the successful synthesis of inorganic and hybrid organic-inorganic materials, bio- and bio-inspired materials, powders, particles and fibers as well as sol-gel derived thin films, coatings and surfaces.

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