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Handbook of Sol-Gel Science and Technology - Processing ...

Summary: This completely updated and expanded second edition of the Handbook of Sol-Gel Science and Technology stands as a comprehensive knowledgebase on both the fundamentals and applications of this important materials processing method.

HISTORY OF SOL-GEL SCIENCE AND TECHNOLOGY (REVIEW)

Handbook of sol-gel science and technology by , 2004, Kluwer Academic Publishers edition, in English

Handbook Of Sol Gel Science

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.

Sol-Gel Science - 1st Edition

Handbook of Sol-Gel Science and Technology: Processing Characterization and Applications by Sumio Sakka Hardcover Book Description Since Dr. Disiich of Germany prepared a glass lens by the sol-gel method around 1970, sol-gel science and technology has continued to develop.

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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.

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Since then this field has seen remarkable technical developments as well as a broadening of the applications of sol-gel science and technology. There is a growing need for a comprehensive reference that treats both the fundamentals and the applications, and this is the aim of Handbook of Sol-Gel Science and Technology.

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Handbook of Sol-Gel Science and Technology (PDF)

Applications of sol-gel method
Optical and photonic functions
Electronic functions (ferroelectricity, electronic and ionic conduction)
Thermal function
Mechanical functions
Chemical functions
Biomedical functions
Capacitor, piezoelectric transfer; Non-volatile memory, transparent semiconductors;
Solid electrolyte (battery, fuel cell);

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Since the inception of the highly successful Sol-Gel Workshop series in Padova during 1981, sol-gel science and technology has evolved from its origins within traditional materials science (mainly glass and ceramics) to become an extraordinarily multidisciplinary area of research, spanning chemistry, physics, biology, materials science and nanotechnology.

Handbook of Sol-Gel Science and Technology

There is a growing need for a comprehensive reference that treats both the fundamentals and the applications, and this is the aim of "Handbook of Sol-Gel Science and Technology". The primary purpose of sol-gel science and technology is to produce materials, active and non-active including optical, electronic, chemical, sensor, bio- and structural materials.

Sakka, Sumio 2004 Handbook Of Sol Gel Science And ...

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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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Handbook of sol-gel science and technology (eBook, 2017 ...

David Levy is a Research Professor and head of the Sol-Gel Group at the Materials Science Institute of Madrid (ICMM) of the Consejo Superior de Investigaciones Científicas.

HANDBOOK of SOL-GEL SCIENCE and TECHNOLOGY Processing, and ...

Handbook of Sol-Gel Science and Technology • Updates and expands significantly on the first edition edited by Sumio Sakka, the second edition represents the most-comprehensive reference collection on sol-gel processing, characterization, and applications available • Includes detail on long-standing issues in sol-gel

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