


Handbook Of Sol-gel Science And Technology 3 Applications Of Sol-gel Technology

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Summary : Free handbook of sol-gel science and technology 3 applications of sol-gel technology pdf download - since Dr. Diisch of Germany prepared a glass lens by the sol-gel method around 1970, sol-gel science and technology has continued to develop. 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 the 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. This means that sol-gel science and technology is related to all kinds of manufacturing industries. Thus, Volume 1: Sol-gel Processing is devoted to general aspects of processing newly developed materials such as organic-inorganic hybrids, photonic crystals, ferroelectric coatings, photocatalysts, etc. Volume 2: Characterization of sol-gel materials and products highlights the important fact that useful materials are only produced when characterization is tied to processing. Furthermore, characterization is essential to the understanding of nanostructured materials, and sol-gel technology is a most important technology in this new field since nanomaterials display their functional property based on their nano- and micro-structure. Characterization is very important. Topics found in Volume 2 include: sol-gel technology is a versatile technology making it possible to produce a wide variety of materials and to provide existing substances with novel properties. This technology was applied to producing novel materials, for example, organic-inorganic hybrids, which are quite difficult to make by other fabricating techniques, and it was also applied to producing materials based on high-temperature superconducting oxides. Applications of sol-gel technology: Volume 3 will cover applications such as:

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