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### Studies On Porous Monolithic Materials

This thesis focuses on porous monolithic materials that are not in the forms of particles, fibers, or films. In particular, the synthetic strategy of porous monolithic materials via the sol-gel method accompanied by phase separation, which is characterized as the non-templating method for tailoring well-defined macropores, is described from the basics to actual synthesis.

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### Studies on Porous Monolithic Materials Prepared via Sol ...

In this study, a porous monolithic polyimide aerogel was prepared using a polyimide derived from pyromellitic dianhydride (PMDA) and 4,4'-oxydianiline (ODA) without addition of other components for connections among spherical polyimide aerogels . The synthesized polyimide aerogel particle showed a highly porous structure.

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Dynamic materials comprising spiropyrans have emerged as one of the most interesting and promising class of stimulus-responsive materials. Spiropyrans are often embedded in polymer matrices; their covalent attachment into porous monolithic silsesquioxane frameworks, however, is virtually unexplored. We demonstrate that a silylated spiropyran derivative can be covalently incorporated into ...

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The exploitation of salt-resistant photothermal materials is of great importance for practical solar desalination. Herein, we report, for the first time, the synthesis of monolithic porous ionic polymers (PIPs) coated with polypyrrole (PPy) as self-desalting photothermal materials for efficient solar steam generation. Based on their good thermal insulation, the desired mesopores, and the ...

### Salt-Resistant Photothermal Materials Based on Monolithic ...

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Recent studies on porous materials have led to the development of new materials with designable pores, affording scientists with greater control over the properties of such materials.. MOF is a ...

### Coating plastics with porous nanofilm

The purpose of this investigation was to study bone growth into porous ... Resorcinol-formaldehyde gels synthesized in water were freeze-dried to a monolithic and highly porous material.

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