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The parameters influencing synthesis are pH, nature, and concentration of salt

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precursor, kinetics, temperature, agitation, and properties of gel. 52 Magnetic ordering in this procedure depends on the volume and phase of solvent but is sensitive to dispersion and size distribution. 45 The associated advantages include synthesis of materials ...

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Application of silica nanoparticles as
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nanocomposite of polymers has drawn much attention, due to the increased demand for new materials with improved thermal, mechanical, physical, and chemical properties. Recent developments in the synthesis of monodispersed, narrow-size distribution of nanoparticles by sol-gel method provide significant boost to development

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Dendrimer Substance composed of identical dendrimer molecules..

Dendrimer molecule. Molecule consisting of one or more dendrons emanating from a single constitutional unit.

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Dendron. Part of a molecule with only one free valence, comprising exclusively dendritic and terminal constitutional repeating units and in which each path from the free valence to any end-group comprises the same number of ...

Dendrimer - Wikipedia

Dendrimers are nano-sized, radially

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symmetric molecules with well-defined, homogeneous, and monodisperse structure that has a typically symmetric core, an inner shell, and an outer shell. Their three traditional macromolecular architectural classes are broadly recognized to generate rather polydisperse products of different molecular weights. A variety of

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Topological insulators have non-trivial symmetry-protected topological order; however, having a conducting surface is not unique to topological insulators, since ordinary band insulators can also ...

Topological insulator - Wikipedia

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