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Abstract. The synthesis of inorganic compounds for use in materials 1,2 is about making solids and this chapter on synthesis describes the preparation of (mainly) nonmolecular solid compounds in solid state reactions, in reactions from liquids, or reactions from the gas phase. The synthesis of inorganic molecules 3 is not much different than that of organic compounds.

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Composite materials formed by the combination of inorganic materials and organic polymers are attractive for the

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purpose of creating high-performance or high-functional polymeric materials. Of particular interest is the molecular level combination of two different components that may lead to new composite materials, termed 'organic—inorganic hybrid materials'.

Organic—inorganic hybrid materials - ScienceDirect

that, the differences between conventional sol-gel synthesis and template-directed synthesis are explained and more specific comments on templated silica structures are given.

2.1 Sol-gel technology The sol-gel technique is well-known in inorganic materials science. It is based on the genera-

Inorganic Materials Science Group Master thesis

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Section 24.3 provides an overview of the biomimetic synthesis of inorganic materials by using DNA, bacteria, insect wings, shell membranes, and other natural materials as the biotemplates. Typical biomimetic synthesis of inorganic chiral materials, such as zeolites, molecular sieves, SiO₂, metals, etc., is covered in Section 24.4.

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