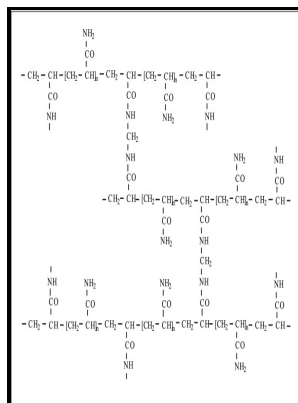


# Reagent applications of organic polymers immobilised on porous silica.

The Polytechnic, Wolverhampton, Department of Physical Sciences - Photocatalytic paper based on sol



Description: -

-Reagent applications of organic polymers immobilised on porous silica.

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**Immobilized lipase on porous silica particles: Preparation and application for biodegradable polymer syntheses in ionic liquid at higher temperature**

In addition, Wu et al. Designed Monomers and Polymers 2007, 10 3 , 273-280.

**Advanced silica/polymer composites: Materials and applications**

To make the composite, a supercritically dried polypropylene sponge is immersed in MTMS silica sol and dip coating is performed. Synthesis, characterization and polymerization of sodium p-methacryloylaminobenzylphosphonate monomer. In alkaline conditions, these secondary particles link with each other and form a continuous solid network in the solvent as a gel formation.

**Immobilization of enzymes to porous**

Therefore, organic materials can act as a support or matrix to enhance the mechanical strength of brittle aerogel structures.

**Synthesis of Organic Compounds Using Polymer**

Covalently bonded polymer with silica networks improves the mechanical properties while maintaining low density.

**Optical fiber ammonia sensing probes using reagent immobilized porous silica coating as transducers**

A mild and highly chemoselective iodination of alcohol using polymer supported DMAP. Effect of different treatments on the activity of IPPL also showed the long time high temperature stability in ionic liquid medium, contributing to a good combination of immobilization and ionic liquids effect.

**Immobilized lipase on porous silica particles: Preparation and application for biodegradable polymer syntheses in ionic liquid at**

### **higher temperature**

This article is cited by 71 publications. In addition, the same research group has developed polyvinylpolysilsesquioxane PVPSQ , polyallylpolysilsesquioxane PAPSQ , PVPMS, and polyallylpolymethylsiloxane PAPMS aerogels using similar synthesis conditions. Low cost, simple structured fiber optic sensors for detecting ammonia vapor in gas samples and trace ammonia dissolved in water can be developed based on the result reported in this paper.

### **Photocatalytic paper based on sol**

The grafted amine was further reacted with azobiscyanovaleric acid. Polypropylene PP is a soft organic material with low specific gravity and excellent mechanical properties such as impact strength and bending elasticity.

### **Composites of silica aerogels with organics: a review of synthesis and mechanical properties**

Microwave Heating and Continuous-Flow Processing as Tools for Metal-Catalyzed Couplings: Palladium-Catalyzed Suzuki-Miyaura, Heck, and Alkoxy carbonylation Reactions.

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