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In this special issue, the latest developments in preparation, characterisation and application of porous monolithic materials in separation science and technology will be presented. Porous polymer, silica and carbon-based monoliths will be considered along with related gels and hydrogels.

Materials | Special Issue : Porous Monolithic Materials ...

Although porous monolithic materials are well established in chromatography, it is commonly accepted that silica-based monolithic stationary phases be primarily suited for the high-efficient separation of small molecules in both isocratic (equilibrium) and gradient (nonequilibrium) elution modes.

Porous polymer monoliths: From their fundamental structure ...

Thirty-five melamine-formaldehyde (MF) monolithic materials with bimodal pore distributions were synthesized in fused silica capillaries by catalyst-free polycondensation, starting with an aqueous MF precondensate, using acetonitrile as the macroporogen and a variety of aliphatic polyethers and triblock copolymeric surfactants as porogens and mesoporogens, respectively. By varying the ...

Molecularly Imprinted Porous Monolithic Materials from ...

Poly lactide-Based Chiral Porous Monolithic Materials Prepared Using the High Internal Phase Emulsion Template Method for Enantioselective Release Xueyong Yong State Key Laboratory of Organic-Inorganic Composites, State Key Laboratory of Chemical Resource Engineering, College of Materials Science and Engineering, Beijing University of Chemical Technology, Beisanhuan East Road 15#, Beijing 100029, China

Poly lactide-Based Chiral Porous Monolithic Materials ...

The monolithic column develops a network of channels in the continuous phase of a porous material that shows high axial permeability, a large internal pore surface area and less back pressure than that of conventional packed columns. Therefore, these monoliths allow performing separation processes at high flow rates and low back-pressures.

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Many researchers have used porous materials to improve the efficiency of energy in buildings. Further, some of the natural media involved in building energy technologies are porous. However, currently, there is no review article specifically focused on the porous media pertinent to the building energy technologies.

Porous materials in building energy technologies—A review ...

· Monolithic materials are currently very popular within several scientific areas such as chromatography, optics, catalysis, diagnostics, genomics, proteomics, and microfluidics. · Provides valuable information about the sources of the specific materials, their properties, and potential applications.

Monolithic Materials, Volume 67 - 1st Edition

The field of separation science has recently witnessed an explosion of interest and progress in the design and study of porous polymer monolithic materials.

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Monolithic nanoporous copper by dealloying Mn-Cu | Journal ...

A computational study of the porosity effects in silica monolithic columns. Authors. Piotr Gzil, E-mail address: pgzil@vub.ac.be. Search for more papers by this author. Nico Vervoort, Vrije Universiteit Brussel, Department of Chemical Engineering (CHIS-TW), Pleinlaan 2, B-1050 Brussels, Belgium.

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