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### Monolithic Silicas In Separation Science

Professor Tanaka's research interests include the development of chromatographic columns and stationary phases, particularly monolithic silica-based materials, as well as the separation of isotopes, isomers and environmental contaminants.

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Silica-Based Monolithic Materials for the Separation of Enantiomers Summary of the Present State-of-the-Art and Problems to be Solved in the Future HIGH-SPEED AND HIGH-EFFICIENCY SEPARATIONS BY UTILIZING MONOLITHIC SILICA CAPILLARY COLUMNS

### Monolithic Silicas in Separation Science: Concepts ...

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### Monolithic Silicas in Separation Science : Klaus K. Unger ...

Monolithic silicas in separation science : concepts, syntheses, characterization, modeling and applications

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### Monolithic Silicas in Separation Science: Concepts ...

The aim of this review was to provide to the separation science community a possible avenue of future research and ideas in the development of monolithic stationary phases. The review has highlighted a trend amongst leading researchers in the area of monolithic materials, namely to explore alternative materials to the well established silica ...

### Inorganic monoliths in separation science: A review ...

1. Introduction. Chiral separation has been and continues to be a topic of great concern in many areas, such as pharmaceutical, agrochemical, environmental and food analysis [ . . . ]As an important factor for successful enantioresolution, the development of chiral stationary phases (CSPs) runs through the history of chiral separation.

### Recent advances in preparation and applications of ...

"Characterization of the Pore Structure of Monolithic Silicas" in Monolithic Silicas in Separation Science 2011, WILEY-VCH, Verlag GmbH & Co KGaA, Weinheim, Germany "Stationary phases and Chromatographic systems" in Preparative Chromatography 2012, WILEY-VCH, Verlag GmbH & Co KGaA, Weinheim, Germany

### Romas Skudas - Scientist | Merck global

Monolithic Silicas in Separation Science. 13 January 2011 News. Lab Automation Mass Spectrometry Chemometrics & Informatics IR, Chemometrics: Data Driven Extraction for Science, 2nd Edition. 29 March 2018 Media Latest Issues. Imaging & Microscopy Read latest issue. Microscopy ...

### How to Write a Successful Science Thesis - 2006 - Wiley ...

Separation of Aromatic Hydrocarbons by Ag NPs/Monolithic Silica We have recently reported the embedment of Ag NPs into monolithic silica with web-like branched skeletons and with SBA-15 type cylindrical mesopores by reduction of AgNO<sub>3</sub> in ethanol which acts as a mild reductant [5] (Fig. 1).

### Separation: Silver-functionalized Monolithic Silica for ...

Pavel N. Nesterenko, Paul R. Haddad, Monolithic Stationary Phases for Fast Ion Chromatography, Monolithic Silicas in Separation Science, 10.1002/9783527633241. (207-230). (2011). Wiley Online Library

### Ion exchange properties of monolithic and particle type ...

Monolithic silsesquioxane materials with well-defined pore structure - Volume 29 Issue 23 - Kazuyoshi Kanamori ... observed when the formation of isolated species including polyhedral oligomeric silsesquioxanes dominates or if phase separation of the hydrophobic networks in aqueous media is not adequately controlled. In the successfully ...

### Monolithic silsesquioxane materials with well-defined pore ...

F. Kietz, F. Berube, C.M. Yang and M. Thommes, "Large pore ordered mesoporous silicas materials with 3D cubic Ia3d structure: A comprehensive gas adsorption study", Studies in Surface Science and Catalysis 170 1843 (2007). For more info.

### Quantachrome Instruments

A monolithic ODS-silica gel column modified by saturating it with lithium dodecylsulfate (Li-DS) was firstly used to separate monovalent cations simultaneously including H<sup>+</sup>, Na<sup>+</sup>, NH<sub>4</sub><sup>+</sup> and K<sup>+</sup> by ...

### Monolithic Stationary Phases for Fast Ion Chromatography ...

To gain insight into how the pressure drop in monolithic silica columns is determined by the microscopic details of the pore structure, a series of well-validated computational fluid dynamics simulations has been performed on a simplified model structure, the so-called tetrahedral skeleton column. From these simulations, a direct correlation between the pressure drop and two main structural ...

### A Correlation for the Pressure Drop in Monolithic Silica ...

Monolithic silicas in separation science: concepts, syntheses, characterization, modeling and applications. KK Unger, N Tanaka, E Machtejevas. John Wiley & Sons, 2010. 55: 2010: Very high efficiency porous silica layer open-tubular capillary columns produced via in-column sol-gel processing.

### Takeshi Hara - Google Scholar

Monolithic silicas in separation science: concepts, syntheses, characterization, modeling and applications. KK Unger, N Tanaka, E Machtejevas. John Wiley & Sons, 2010. 55: 2010: Fast HPLC method for the determination of gliimepiride, glibenclamide, and related substances using monolithic column and flow program.