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Title of the abstract: Preparation of Partially Sub-1 µm Inorganic-Organic Hybrid Silica Monolith Materials as Highly Efficient Stationary Phases in Reverse Phase Liquid Chromatography

Faiz Ali a*, Co-Author Name(s)b Won Jo Cheong
a Department of Chemistry, Faculty of Basic and Applied Sciences, The University of Poonch, Rawalakot, AJK, Pakistan. 12350
b Department of Chemistry, Inha University, 100 Inharo, Namku, Incheon 402-751, South Korea

Presenting Author Name:
Affiliation: Department of Chemistry, Faculty of Basic and Applied Sciences,
University: The University of Poonch, Rawalakot, AJK, Pakistan. 12350
Country: AJk, Pakistan
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Abstract
Pseudo monolithic architecture have been produced inside a stainless steel (1 mm ID X 150 mm long) column by means of Altech slurry packer. The silica monolith particles were synthesized in sub-1 µm range followed by their modification with polystyrene polymer film by means of Reversible Addition Fragmentation Chain Transfer Polymerization. Those inorganic-organic hybrid materials when packed in column which resulted in very high separation efficiency (N value~181,000 plates/m). A mobile phase of 62/38 (v/v) % acetonitrile/water with a flow rate of 22 µL/min was used. The column of current study has the potentials of fast HPLC analysis. The materials were used as stationary phase media in revers phase liquid chromatography.

Biography:

Dr. Faiz Ali is a professor of Chemistry in the University of Poonch, AJK, and Pakistan.

More up to… 100 Words
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Mail Id: faizy186@gmail.com
Contact Number: +923480961065