Silica Microspheres with Fibrous Shells: Synthesis and A

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Citation Report

#	Article	IF	Citations
1	Effect of Zeta Potential and Particle Size on the Stability of SiO Nanospheres as Carrier for Ultrasound Imaging Contrast Agents. International Journal of Electrochemical Science, 2016, 11, 8520-8529.	1.3	98
2	A magnetically recoverable photocatalyst prepared by supporting TiO₂nanoparticles on a superparamagnetic iron oxide nanocluster core@fibrous silica shell nanocomposite. RSC Advances, 2017, 7, 9587-9595.	3.6	11
3	Core-shell silica particles with dendritic pore channels impregnated with zeolite imidazolate framework-8 for high performance liquid chromatography separation. Journal of Chromatography A, 2017, 1505, 63-68.	3.7	47
4	Recent advances in capillary ultrahigh pressure liquid chromatography. Journal of Chromatography A, 2017, 1523, 17-39.	3.7	57
5	Poly (styrene-divinyl benzene-glycidylmethacrylate) stationary phase grafted with poly amidoamine (PAMAM) dendrimers for rapid determination of phenylene diamine isomers in HPLC. Talanta, 2017, 168, 188-195.	5.5	23
6	Rods-on-sphere silica particles for high performance liquid chromatography. Journal of Chromatography A, 2017, 1497, 87-91.	3.7	9
7	Dendritic Fibrous Nanosilica for Catalysis, Energy Harvesting, Carbon Dioxide Mitigation, Drug Delivery, and Sensing. ChemSusChem, 2017, 10, 3866-3913.	6.8	197
8	Monodispersed Mesoporous Silica Spheres Supported Co₃O₄ as Robust Catalyst for Oxygen Evolution Reaction. ChemCatChem, 2017, 9, 4238-4243.	3.7	15
9	Core-shell silica microsphere-based trypsin nanoreactor for low molecular-weight proteome analysis. Analytica Chimica Acta, 2017, 985, 194-201.	5.4	12
10	A nanocrystalline metal organic framework confined in the fibrous pores of core-shell silica particles for improved HPLC separation. Mikrochimica Acta, 2017, 184, 4099-4106.	5.0	25
11	Controllable growth of ZIF-8 layers with nanometer-level precision on SiO2 nano-powders via liquid phase epitaxy stepwise growth approach. Microporous and Mesoporous Materials, 2018, 268, 268-275.	4.4	21
12	Dendritic core-shell silica spheres with large pore size for separation of biomolecules. Journal of Chromatography A, 2018, 1540, 31-37.	3.7	29
13	Uniform formation of mesoporous silica shell on micron-sized cores in the presence of hydrocarbon used as a swelling agent. Journal of Sol-Gel Science and Technology, 2018, 85, 539-545.	2.4	5
14	Highly uniform porous silica layer open-tubular capillary columns produced via in-situ biphasic solâ€“Gel processing for open-tubular capillary electrochromatography. Journal of Chromatography A, 2018, 1538, 86-93.	3.7	31
15	Synthesis of core-shell silica spheres with tunable pore diameters for HPLC. Materials Letters, 2018, 211, 40-42.	2.6	18
16	Coreâ€“shell microspheres with porous nanostructured shells for liquid chromatography. Journal of Separation Science, 2018, 41, 99-124.	2.5	34
17	Preparation and Chromatographic Features of Fibrous Coreâ€“Shell HPLC Packing Material. Chromatographia, 2018, 81, 1249-1256.	1.3	3
18	Improving the size uniformity of dendritic fibrous nano-silica by a facile one-pot rotating hydrothermal approach. RSC Advances, 2019, 9, 24783-24790.	3.6	28

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19	InÂVitro and InÂVivo Evaluation of Coreâ€“Shell Mesoporous Silica as a Promising Water-Insoluble Drug Delivery System: Improving the Dissolution Rate and Bioavailability of Celecoxib With Needle-Like Crystallinity. Journal of Pharmaceutical Sciences, 2019, 108, 3225-3232.	3.3	8
20	A developed, eco-friendly, and flexible thermoplastic elastomeric foam from SEBS for footwear application. EXPRESS Polymer Letters, 2019, 13, 948-958.	2.1	27
21	Synthesis, characterization, and luminescence properties of BiVO4:Eu3+ embedded Fe3O4@mSiO2 nanoparticles. Journal of Luminescence, 2019, 215, 116677.	3.1	20
22	Dendritic fibrous nano-particles (DFNPs): rising stars of mesoporous materials. Journal of Materials Chemistry A, 2019, 7, 5111-5152.	10.3	103
23	Formation Mechanism of Silica Particles with Dendritic Structure. ChemistrySelect, 2019, 4, 6656-6661.	1.5	7
24	Facile synthesis to tune size, textural properties and fiber density of dendritic fibrous nanosilica for applications in catalysis and CO2 capture. Nature Protocols, 2019, 14, 2177-2204.	12.0	96
25	Fabrication of hollow cubic silica nanoframes with a fibrous morphology. Materials Letters, 2019, 252, 31-34.	2.6	2
26	Synthesis and adsorption behavior study of magnetic fibrous mesoporous silica. Microporous and Mesoporous Materials, 2019, 282, 15-21.	4.4	13
27	Well-Defined Materials for High-Performance Chromatographic Separation. Annual Review of Analytical Chemistry, 2019, 12, 451-473.	5.4	14
28	Facile synthesis of a 3D flower-like SiO2-MOF architecture with copper oxide as a copper source for enantioselective capture. New Journal of Chemistry, 2019, 43, 16123-16126.	2.8	5
29	Fundamental Properties of Packing Materials for Liquid Chromatography. Separations, 2019, 6, 2.	2.4	9
30	Fabrication of the pod-like KCC-1/TiO2 superhydrophobic surface on AZ31 Mg alloy with stability and photocatalytic property. Applied Surface Science, 2020, 499, 143933.	6.1	23
31	A One-Step Ultrasonic Spray Pyrolysis Approach to Large-Scale Synthesis of Silica Microspheres. Silicon, 2020, 12, 1667-1672.	3.3	7
32	High-Throughput and Ultrafast Liquid Chromatography. Analytical Chemistry, 2020, 92, 67-84.	6.5	40
33	Ultrasonic-Assisted Solâ€“Gel Synthesis of Coreâ€“Shell Silica Particles for High-Performance Liquid Chromatography. Journal of Inorganic and Organometallic Polymers and Materials, 2020, 30, 859-868.	3.7	8
34	Preparation and application of novel MIL-101(Cr) composite in liquid chromatographic separation of aromatic compounds: experimental and computational insights. Mikrochimica Acta, 2020, 187, 471.	5.0	9
35	A Syringe-Filter-based Portable Microreactor for Size-selective Proteolysis of Low Molecular-weight Proteins. Chinese Journal of Analytical Chemistry, 2020, 48, e20139-e20148.	1.7	2
36	Monodisperse coreâ€“shell silica particles as a high-performance liquid chromatography packing material: Facile in situ silica sol-gel synthesis. Journal of Chromatography A, 2020, 1625, 461282.	3.7	7

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37	Controlled manipulation of TiO2 nanoclusters inside mesochannels of core-shell silica particles as stationary phase for HPLC separation. Mikrochimica Acta, 2020, 187, 328.	5.0	2
38	Pore expanding effect of hydrophobic agent on 100 nm-sized mesoporous silica particles estimated based on Hansen solubility parameters. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 609, 125647.	4.7	7
39	Advances and Innovations in Liquid Chromatography Stationary Phase Supports. Analytical Chemistry, 2021, 93, 257-272.	6.5	49
40	A Versatile Interfacial Coassembly Method for Fabrication of Tunable Silica Shells with Radially Aligned Dual Mesopores on Diverse Magnetic Core Nanoparticles. ACS Applied Materials & Interfaces, 2021, 13, 1883-1894.	8.0	19
41	Facile synthesis of spherical covalent organic frameworks as stationary phases for short-column liquid chromatography. Chemical Communications, 2021, 57, 7501-7504.	4.1	23
42	A novel column modification approach for capillary gas chromatography: combination with a triptycene-based stationary phase achieves high separation performance and inertness. New Journal of Chemistry, 2021, 45, 7594-7601.	2.8	4
43	Preparation of Silica-Based Superficially Porous Silica and its Application in Enantiomer Separations: a Review. Journal of Analysis and Testing, 2021, 5, 242-257.	5.1	18
44	Constructing Hybrids Consisting of Porous Silica Particles and Carbon Nanotubes and their Polymer Composites. Applied Composite Materials, 2021, 28, 705-715.	2.5	1
45	Polyaniline-coated core-shell silica microspheres-based dispersive-solid phase extraction for detection of benzophenone-typeÂUV filters in environmental water samples. Environmental Advances, 2021, 3, 100037.	4.8	13
46	Correlation of Secondary Particle Number with the Debyeâ€“HÃ¼ckel Parameter for Thickening Mesoporous Silica Shells Formed on Spherical Cores. ACS Omega, 2021, 6, 17734-17740.	3.5	2
47	TiO2-x nanoparticles dispersed in center-radial channels of dendritic mesoporous silica nanospheres (DMSNs) as novelly structured photocatalysts. Journal of Materials Science, 2021, 56, 14659-14671.	3.7	9
48	Dendritic mesoporous organosilica nanoparticles (DMONs): Chemical composition, structural architecture, and promising applications. Nano Today, 2021, 39, 101231.	11.9	37
49	Titanium dioxide-coated core-shell silica microspheres-based solid-phase extraction combined with sheathless capillary electrophoresis-mass spectrometry for analysis of glyphosate, glufosinate and their metabolites in baby foods. Journal of Chromatography A, 2021, 1659, 462519.	3.7	12
50	TiO2-modified fibrous core-shell mesoporous material to selectively enrich endogenous phosphopeptides with proteins exclusion prior to CE-MS analysis. Talanta, 2021, 235, 122737.	5.5	12
51	Preparation of silica microspheres with a broad pore size distribution and their use as the support for a coated cellulose derivative chiral stationary phase. Journal of Separation Science, 2018, 41, 1232-1239.	2.5	9
52	Dendritic Mesoporous Nanoparticles: Structure, Synthesis and Properties. Angewandte Chemie, 2022, 134, .	2.0	30
53	Dendritic Mesoporous Nanoparticles: Structure, Synthesis and Properties. Angewandte Chemie - International Edition, 2022, 61, .	13.8	52
54	Pore size control of monodisperse mesoporous silica particles with alkyl imidazole ionic liquid templates for high performance liquid chromatography applications. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2022, 637, 128200.	4.7	5

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55	Nano-channel confined biomimetic nanozyme/bioenzyme cascade reaction for long-lasting and intensive chemiluminescence. Biosensors and Bioelectronics, 2022, 202, 114020.	10.1	16
56	One-Step Solvothermal Synthesis of Sub-2-Âµm Sea Urchin-Like TiO2 Microspheres for High-Performance Liquid Chromatography Stationary Phase. Chromatographia, 2022, 85, 365-371.	1.3	1
57	åŠŸèƒ½åŒ–äºŒæ°§åŒ–ç¡…çº³ç±³æææ–™åœ¨è‚¿ç˜¤æ²»ç––é¢†åŸŸçš„åº”ç”¨. Chinese Science Bulletin, 2022, , .	0.7	1
58	Fabrication of cellulose derivative coated spherical covalent organic frameworks as chiral stationary phases for high-performance liquid chromatographic enantioseparation. Journal of Chromatography A, 2022, 1675, 463155.	3.7	11
59	Fabrication of dendritic fibrous silica nanolayer on optimized water-glass-based synthetic nanosilica from rice husk ash. Ceramics International, 2022, 48, 32409-32417.	4.8	1
60	Fabrication of dimethyl methylphosphonate-loaded mesoporous silica nano fire extinguisher and flame retarding unsaturated polyester. Composites Communications, 2022, 35, 101282.	6.3	6
61	Unveiling the mechanism of methylcellulose-templated synthesis of Al2O3 microspheres with organic solvents as swelling agents in microchannel. Journal of Colloid and Interface Science, 2022, 628, 31-42.	9.4	3
62	Novel coreâ€“shell SiO2@dSiO2@NH2-MIL-53(Al) packed into solid phase extraction column for enrichment of non-steroidal anti-inflammatory drugs prior to UPLC-MS/MS. Microchemical Journal, 2022, 183, 107970.	4.5	1
63	Sio2@Dsio2@Tio2 Core-Shell Stationary Phase with Uniform and Tunable Tio2 Thickness for Hplc Separation. SSRN Electronic Journal, 0, , .	0.4	0
64	Confined growth of TiO2 nanoclusters inside mesopores of coreâ€“shell silica spheres with high loading as efficient photocatalysts. Journal of Materials Science, 2022, 57, 17277-17290.	3.7	0
65	Chromatographic separation of peptides and proteins for characterization of proteomes. Chemical Communications, 2023, 59, 270-281.	4.1	2
66	Process Intensification of Dendritic Fibrous Nanospheres of Silica (KCC-1) via continuous flow: A Scalable, and Sustainable Route to a Conventional Batch Synthesis. Reaction Chemistry and Engineering, 0, , .	3.7	0
67	Periodic mesoporous organosilica for chromatographic stationary phases: From synthesis strategies to applications. TrAC - Trends in Analytical Chemistry, 2023, 158, 116895.	11.4	6
68	Fluoro-Functionalized Spherical Covalent Organic Frameworks as a Liquid Chromatographic Stationary Phase for the High-Resolution Separation of Organic Halides. Analytical Chemistry, 2022, 94, 18067-18073.	6.5	9
69	Size-preset Synthesis of Highly Monodisperse Silica Spheres for Self-Assembly of Photonic Crystals with Narrow Band Width. Silicon, 0, , .	3.3	0
70	Applicability of core-shell SiO2 microspheres with a high TiO2 loading as stationary phase for HPLC. Analytica Chimica Acta, 2023, 1272, 341527.	5.4	1
71	Core-shell metal-organic framework/silica hybrid with tunable shell structure as stationary phase for high performance liquid chromatography. Journal of Chromatography A, 2023, 1705, 464164.	3.7	2
73	Clickable periodic mesoporous organosilicas core-shell particles with radially-oriented mesopores for high-performance liquid chromatography. Microporous and Mesoporous Materials, 2023, 362, 112785.	4.4	2

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74	Preparation of coreâ€“shell silica particles with tunable pore size by phenylethanol as swelling agent for chromatographic separation. Materials Letters, 2024, 364, 136343.	2.6	0