Frantisek Svec

List of Publications by Year
in descending order

300 papers	23,888 citations	3930 88 h-index	9090 144 g-index
302 all docs	302 docs citations	302 times ranked	10433 citing authors

#	Article	IF	Citations
1	Continuous rods of macroporous polymer as high-performance liquid chromatography separation media. Analytical Chemistry, 1992, 64, 820-822.	3.2	905
2	New Designs of Macroporous Polymers and Supports: From Separation to Biocatalysis. Science, 1996, 273, 205-211.	6.0	585
3	Porous polymer monoliths: Amazingly wide variety of techniques enabling their preparation. Journal of Chromatography A, 2010, 1217, 902-924.	1.8	526
4	Monolithic, â€œMoldedâ€ Porous Materials with High Flow Characteristics for Separations, Catalysis, or Solid-Phase Chemistry:Â Control of Porous Properties during Polymerization. Chemistry of Materials, 1996, 8, 744-750.	3.2	437
5	Molded Rigid Polymer Monoliths as Separation Media for Capillary Electrochromatography. Analytical Chemistry, 1997, 69, 3646-3649.	3.2	417
6	Molded Rigid Polymer Monoliths as Separation Media for Capillary Electrochromatography. 1. Fine Control of Porous Properties and Surface Chemistry. Analytical Chemistry, 1998, 70, 2288-2295.	3.2	389
7	Nanoporous Polymers for Hydrogen Storage. Small, 2009, 5, 1098-1111.	5.2	373
8	Monolithic Materials: Promises, Challenges, Achievements. Analytical Chemistry, 2006, 78, 2100-2107.	3.2	347
9	Enzymatic Microreactor-on-a-Chip:Â Protein Mapping Using Trypsin Immobilized on Porous Polymer Monoliths Molded in Channels of Microfluidic Devices. Analytical Chemistry, 2002, 74, 4081-4088.	3.2	342
10	High-Performance Membrane Chromatography. A Novel Method of Protein Separation. Journal of Liquid Chromatography and Related Technologies, 1990, 13, 63-70.	0.9	332
11	Monolithic Porous Polymer for On-Chip Solid-Phase Extraction and Preconcentration Prepared by Photoinitiated in Situ Polymerization within a Microfluidic Device. Analytical Chemistry, 2001, 73, 5088-5096.	3.2	327
12	High Surface Area Nanoporous Polymers for Reversible Hydrogen Storage. Chemistry of Materials, 2006, 18, 4430-4435.	3.2	308
13	Porous Polymer Coatings: a Versatile Approach to Superhydrophobic Surfaces. Advanced Functional Materials, 2009, 19, 1993-1998.	7.8	308
14	Advances and Recent Trends in the Field of Monolithic Columns for Chromatography. Analytical Chemistry, 2015, 87, 250-273.	3.2	308
15	Kinetic Control of Pore Formation in Macroporous Polymers. Formation of "Molded" Porous Materials with High Flow Characteristics for Separations or Catalysis. Chemistry of Materials, 1995, 7, 707-715.	3.2	302
16	Hypercrosslinked polyanilines with nanoporous structure and high surface area: potential adsorbents for hydrogen storage. Journal of Materials Chemistry, 2007, 17, 4989.	6.7	290
17	Macroporous polymeric stationary-phase rod as continuous separation medium for reversed-phase chromatography. Analytical Chemistry, 1993, 65, 2243-2248.	3.2	288
18	Rigid Macroporous Polymer Monoliths. Advanced Materials, 1999, 11, 1169-1181.	11.1	278

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19	Design of the monolithic polymers used in capillary electrochromatography columns. Journal of Chromatography A, 2000, 887, 3-29.	1.8	241
20	Photografting and the Control of Surface Chemistry in Three-Dimensional Porous Polymer Monoliths. Macromolecules, 2003, 36, 1677-1684.	2.2	238
21	Molded Rigid Monolithic Porous Polymers:â€‰ An Inexpensive, Efficient, and Versatile Alternative to Beads for the Design of Materials for Numerous Applications. Industrial & Engineering Chemistry Research, 1999, 38, 34-48.	1.8	237
22	Towards stationary phases for chromatography on a microchip: Molded porous polymer monoliths prepared in capillaries by photoinitiatedin situ polymerization as separation media for electrochromatography. Electrophoresis, 2000, 21, 120-127.	1.3	232
23	Preparation and HPLC applications of rigid macroporous organic polymer monoliths. Journal of Separation Science, 2004, 27, 747-766.	1.3	225
24	Molecular imprinting of proteins in polymers attached to the surface of nanomaterials for selective recognition of biomacromolecules. Biotechnology Advances, 2013, 31, 1172-1186.	6.0	222
25	Temperature, a Simple and Efficient Tool for the Control of Pore Size Distribution in Macroporous Polymers. Macromolecules, 1995, 28, 7580-7582.	2.2	214
26	Recent developments in the field of monolithic stationary phases for capillary electrochromatography. Journal of Separation Science, 2005, 28, 729-745.	1.3	212
27	Development and application of polymeric monolithic stationary phases for capillary electrochromatography. Journal of Chromatography A, 2004, 1044, 3-22.	1.8	208
28	Molded Rigid Polymer Monoliths as Separation Media for Capillary Electrochromatography. 2. Effect of Chromatographic Conditions on the Separation. Analytical Chemistry, 1998, 70, 2296-2302.	3.2	204
29	Preparation of Size-Selective Nanoporous Polymer Networks of Aromatic Rings: Potential Adsorbents for Hydrogen Storage. Chemistry of Materials, 2008, 20, 7069-7076.	3.2	199
30	â€œMoldedâ€•Macroporous Poly(glycidyl methacrylate-co-trimethylolpropane trimethacrylate) Materials with Fine Controlled Porous Properties:â€‰ Preparation of Monoliths Using Photoinitiated Polymerization. Chemistry of Materials, 1997, 9, 463-471.	3.2	196
31	Reactive polymers I. Macroporous methacrylate copolymers containing epoxy groups. Angewandte Makromolekulare Chemie, 1975, 48, 135-143.	0.3	195
32	Surface Functionalization of Thermoplastic Polymers for the Fabrication of Microfluidic Devices by Photoinitiated Grafting. Advanced Functional Materials, 2003, 13, 264-270.	7.8	195
33	Less common applications of monoliths: Preconcentration and solid-phase extraction. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2006, 841, 52-64.	1.2	193
34	Porous Polymer Monolithic Column with Surface-Bound Gold Nanoparticles for the Capture and Separation of Cysteine-Containing Peptides. Analytical Chemistry, 2010, 82, 3352-3358.	3.2	190
35	Modified poly(glycidyl metharylate-co-ethylene dimethacrylate) continuous rod columns for preparative-scale ion-exchange chromatography of proteins. Journal of Chromatography A, 1995, 702, 89-95.	1.8	189
36	Flow Control Valves for Analytical Microfluidic Chips without Mechanical Parts Based on Thermally Responsive Monolithic Polymers. Analytical Chemistry, 2003, 75, 1958-1961.	3.2	189

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37	Dual-Function Microanalytical Device by In Situ Photolithographic Grafting of Porous Polymer Monolith:Â Integrating Solid-Phase Extraction and Enzymatic Digestion for Peptide Mass Mapping. Analytical Chemistry, 2003, 75, 5328-5335.	3.2	186
38	Preparation of monolithic polymers with controlled porous properties for microfluidic chip applications using photoinitiated free-radical polymerization. Journal of Polymer Science Part A, 2002, 40, 755-769.	2.5	182
39	High-performance membrane chromatography of proteins, a novel method of protein separation. Journal of Chromatography A, 1991, 555, 97-107.	1.8	181
40	Organic polymer monoliths as stationary phases for capillary HPLC. Journal of Separation Science, 2004, 27, 1419-1430.	1.3	180
41	Incorporation of carbon nanotubes in porous polymer monolithic capillary columns to enhance the chromatographic separation of small molecules. Journal of Chromatography A, 2011, 1218, 2546-2552.	1.8	172
42	Reversed-phase chromatography of small molecules and peptides on a continuous rod of macroporous poly (styrene-co-divinylbenzene). Journal of Chromatography A, 1994, 669, 230-235.	1.8	171
43	Chiral Monolithic Columns for Enantioselective Capillary Electrochromatography Prepared by Copolymerization of a Monomer with Quinidine Functionality. 1. Optimization of Polymerization Conditions, Porous Properties, and Chemistry of the Stationary Phase. Analytical Chemistry, 2000, 72, 4614-4622.	3.2	167
44	Design of reactive porous polymer supports for high throughput bioreactors: Poly(2-vinyl-4,4-dimethylazlactone-co-acrylamide-co-ethylene dimethacrylate) monoliths. , 1999, 62, 30-35.		163
45	Highly Efficient Enzyme Reactors Containing Trypsin and Endoproteinase LysC Immobilized on Porous Polymer Monolith Coupled to MS Suitable for Analysis of Antibodies. Analytical Chemistry, 2009, 81, 2004-2012.	3.2	159
46	Monolithic Stationary Phases for Capillary Electrochromatography Based on Synthetic Polymers: Designs and Applications. Journal of High Resolution Chromatography, 2000, 23, 3-18.	2.0	157
47	Porous Polymer Monoliths:Â Preparation of Sorbent Materials with High-Surface Areas and Controlled Surface Chemistry for High-Throughput, Online, Solid-Phase Extraction of Polar Organic Compounds. Chemistry of Materials, 1998, 10, 4072-4078.	3.2	152
48	Recent advances in the control of morphology and surface chemistry of porous polymer-based monolithic stationary phases and their application in CEC. Electrophoresis, 2007, 28, 137-147.	1.3	150
49	Hypercrosslinking: New approach to porous polymer monolithic capillary columns with large surface area for the highly efficient separation of small molecules. Journal of Chromatography A, 2010, 1217, 8212-8221.	1.8	150
50	â€œClick Chemistryâ€•in the Preparation of Porous Polymer-Based Particulate Stationary Phases for Î¼-HPLC Separation of Peptides and Proteins. Analytical Chemistry, 2006, 78, 4969-4975.	3.2	149
51	Porous polymer monoliths: Simple and efficient mixers prepared by direct polymerization in the channels of microfluidic chips. Electrophoresis, 2001, 22, 3959-3967.	1.3	145
52	Quest for organic polymer-based monolithic columns affording enhanced efficiency in high performance liquid chromatography separations of small molecules in isocratic mode. Journal of Chromatography A, 2012, 1228, 250-262.	1.8	145
53	High-Throughput Peptide Mass Mapping Using a Microdevice Containing Trypsin Immobilized on a Porous Polymer Monolith Coupled to MALDI TOF and ESI TOF Mass Spectrometers. Journal of Proteome Research, 2002, 1, 563-568.	1.8	144
54	Efficient Separation of Small Molecules Using a Large Surface Area Hypercrosslinked Monolithic Polymer Capillary Column. Analytical Chemistry, 2010, 82, 1621-1623.	3.2	143

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55	Polymer Monoliths with Exchangeable Chemistries: Use of Gold Nanoparticles As Intermediate Ligands for Capillary Columns with Varying Surface Functionalities. Analytical Chemistry, 2010, 82, 7416-7421.	3.2	141
56	Control of Selectivity via Nanochemistry: Monolithic Capillary Column Containing Hydroxyapatite Nanoparticles for Separation of Proteins and Enrichment of Phosphopeptides. Analytical Chemistry, 2010, 82, 8335-8341.	3.2	138
57	Fabrication of porous polymer monoliths covalently attached to the walls of channels in plastic microdevices. Electrophoresis, 2003, 24, 3689-3693.	1.3	136
58	Less common applications of monoliths: I.ÂMicroscale protein mapping with proteolytic enzymes immobilized on monolithic supports. Electrophoresis, 2006, 27, 947-961.	1.3	136
59	Separation of oligonucleotides on novel monolithic columns with ion-exchange functional surfaces. Journal of Chromatography A, 1999, 852, 297-304.	1.8	135
60	Porous monoliths for on-line sample preparation: A review. Analytica Chimica Acta, 2017, 964, 24-44.	2.6	133
61	Less common applications of monoliths: IV. Recent developments in immobilized enzyme reactors for proteomics and biotechnology. Journal of Separation Science, 2009, 32, 706-718.	1.3	130
62	Photopatterning Enzymes on Polymer Monoliths in Microfluidic Devices for Steady-State Kinetic Analysis and Spatially Separated Multi-Enzyme Reactions. Analytical Chemistry, 2007, 79, 6592-6598.	3.2	129
63	Molded Monolithic Rod of Macroporous Poly(styrene-co-divinylbenzene) as a Separation Medium for HPLC of Synthetic Polymers:â€‰ â€œOn-Columnâ€•Precipitationâˆ'Redissolution Chromatography as an Alternative to Size Exclusion Chromatography of Styrene Oligomers and Polymers. Analytical Chemistry, 1996, 68, 315-321.	3.2	126
64	Chiral Monolithic Columns for Enantioselective Capillary Electrochromatography Prepared by Copolymerization of a Monomer with Quinidine Functionality. 2. Effect of Chromatographic Conditions on the Chiral Separations. Analytical Chemistry, 2000, 72, 4623-4628.	3.2	126
65	Chiral electrochromatography with a â€˜mouldedâ€™ rigid monolithic capillary column. Analytical Communications, 1998, 35, 83-86.	2.2	124
66	Patternable Protein Resistant Surfaces for Multifunctional Microfluidic Devices via Surface Hydrophilization of Porous Polymer Monoliths Using Photografting. Chemistry of Materials, 2006, 18, 5950-5957.	3.2	123
67	Preparation of Porous Poly(styrene-co-divinylbenzene) Monoliths with Controlled Pore Size Distributions Initiated by Stable Free Radicals and Their Pore Surface Functionalization by Grafting. Macromolecules, 2001, 34, 4361-4369.	2.2	119
68	Preparation of porous polymer monoliths featuring enhanced surface coverage with gold nanoparticles. Journal of Chromatography A, 2012, 1261, 121-128.	1.8	115
69	â€œReactive Filtrationâ€•â€‰ Use of Functionalized Porous Polymer Monoliths as Scavengers in Solution-Phase Synthesis. Organic Letters, 2000, 2, 195-198.	2.4	113
70	Polymeric monolithic stationary phases for capillary electrochromatography. Electrophoresis, 2002, 23, 3934-3953.	1.3	113
71	Stability and repeatability of capillary columns based on porous monoliths of poly(butyl) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50	1.8	113
72	Capillary electrochromatography in anion-exchange and normal-phase mode using monolithic stationary phases. Journal of Chromatography A, 2001, 925, 265-277.	1.8	110

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73	Preparation of porous hydrophilic monoliths: Effect of the polymerization conditions on the porous properties of poly (acrylamide-co-N,N?-methylenebisacrylamide) monolithic rods. , 1997, 35, 1013-1021.		109
74	Hierarchical Microâ€•and Mesoporous Znâ€Based Metalâ€"Organic Frameworks Templated by Hydrogels: Their Use for Enzyme Immobilization and Catalysis of Knoevenagel Reaction. Small, 2019, 15, e1902927.	5.2	108
75	Rapid reversed-phase separation of proteins and peptides using optimized â€˜mouldedâ€™ monolithic poly(styreneâ€"co-divinylbenzene) columns. Journal of Chromatography A, 1999, 865, 169-174.	1.8	105
76	Monolithic porous polymer stationary phases in polyimide chips for the fast high-performance liquid chromatography separation of proteins and peptides. Journal of Chromatography A, 2008, 1200, 55-61.	1.8	104
77	Molded continuous poly(styrene-co-divinylbenzene) rod as a separation medium for the very fast separation of polymers Comparison of the chromatographic properties of the monolithic rod with columns packed with porous and non-porous beads in high-performance liquid chromatography of polystyrenes. Journal of Chromatography A, 1996, 752, 59-66.	1.8	103
78	Control of Porous Properties and Surface Chemistry in â€œMoldedâ€•Porous Polymer Monoliths Prepared by Polymerization in the Presence of TEMPO. Macromolecules, 1999, 32, 6377-6379.	2.2	102
79	Hypercrosslinked Large Surface Area Porous Polymer Monoliths for Hydrophilic Interaction Liquid Chromatography of Small Molecules Featuring Zwitterionic Functionalities Attached to Gold Nanoparticles Held in Layered Structure. Analytical Chemistry, 2012, 84, 8457-8460.	3.2	101
80	Chip electrochromatography. Journal of Chromatography A, 2004, 1044, 97-111.	1.8	100
81	Magnetic AuNP@Fe 3 O 4 nanoparticles as reusable carriers for reversible enzyme immobilization. Chemical Engineering Journal, 2016, 286, 272-281.	6.6	100
82	Preparation of Large-Diameter â€œMoldedâ€•Porous Polymer Monoliths and the Control of Pore Structure Homogeneity. Chemistry of Materials, 1997, 9, 1898-1902.	3.2	97
83	Immobilization of trypsin onto â€œmoldedâ€•macroporous poly(glycidyl methacrylate-co-ethylene) Tj ETQq1 1 0.784314 rgBT /Overlo 2000, 49, 355-363.		97
84	Latex-functionalized monolithic columns for the separation of carbohydrates by micro anion-exchange chromatography. Journal of Chromatography A, 2004, 1053, 101-106.	1.8	97
85	Porous Polymer Monoliths Functionalized through Copolymerization of a C60 Fullerene-Containing Methacrylate Monomer for Highly Efficient Separations of Small Molecules. Analytical Chemistry, 2011, 83, 9478-9484.	3.2	96
86	Use of Stable Free Radicals for the Sequential Preparation and Surface Grafting of Functionalized Macroporous Monoliths. Macromolecules, 2000, 33, 7769-7775.	2.2	94
87	Photopolymerized monolithic capillary columns for rapid micro high-performance liquid chromatographic separation of proteins. Journal of Chromatography A, 2004, 1051, 53-60.	1.8	94
88	Thermally responsive rigid polymer monoliths. Advanced Materials, 1997, 9, 630-633.	11.1	91
89	Methacrylate-based chromatographic media. Journal of Separation Science, 2005, 28, 1855-1875.	1.3	91
90	Fast Ion-Exchange HPLC of Proteins Using Porous Poly(glycidyl methacrylate-co-ethylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 67 Td (d Biotechnology Progress, 1997, 13, 597-600.	1.3	90

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91	Methacrylate gels with epoxide groups as supports for immobilization of enzymes in pH range 3â€“12. Biochimica Et Biophysica Acta - Biomembranes, 1978, 524, 162-169.	1.4	89
92	Less common applications of monoliths. Journal of Chromatography A, 2008, 1184, 281-295.	1.8	89
93	Monolithic Porous Polymer Layer for the Separation of Peptides and Proteins Using Thin-Layer Chromatography Coupled with MALDI-TOF-MS. Analytical Chemistry, 2007, 79, 486-493.	3.2	87
94	Monodisperse polymer beads as packing material for high-performance liquid chromotography: Effect of divinylbenzene content on the porous and chromatographic properties of poly(styrene-co-divinylbenzene) beads prepared in presence of linear polystyrene as a porogen. Journal of Polymer Science Part A, 1994, 32, 2169-2175.	2.5	85
95	Light-actuated high pressure-resisting microvalve for on-chip flow control based on thermo-responsive nanostructured polymer. Lab on A Chip, 2008, 8, 1198.	3.1	85
96	A new approach to the preparation of large surface area poly(styrene-co-divinylbenzene) monoliths via knitting of looseÂchains using external crosslinkers and application of theseÂmonolithicÂcolumns forÂseparation of small molecules. Polymer, 2014, 55, 340-346.	1.8	84
97	Immobilization of trypsin onto â€œmoldedâ€•macroporous poly(glycidyl methacrylateâ€coâ€ethylene) Tj ETQq1 1 0.784314 rgBT /Ov Biotechnology and Bioengineering, 1996, 49, 355-363.	1.7	83
98	Control of pore formation in macroporous polymers synthesized by single-step Î³-radiation-initiated polymerization and cross-linking. Polymer, 2005, 46, 2862-2871.	1.8	82
99	Open-tubular capillary columns with a porous layer of monolithic polymer for highly efficient and fast separations in electrochromatography. Electrophoresis, 2006, 27, 4249-4256.	1.3	82
100	Hydrophilic surface modification of cyclic olefin copolymer microfluidic chips using sequential photografting. Journal of Separation Science, 2007, 30, 1088-1093.	1.3	82
101	Macroporous Photopolymer Frits for Capillary Electrochromatography. Analytical Chemistry, 2000, 72, 1224-1227.	3.2	81
102	Grafted Macroporous Polymer Monolithic Disks:Â A New Format of Scavengers for Solution-Phase Combinatorial Chemistry. ACS Combinatorial Science, 2001, 3, 216-223.	3.3	80
103	Recent developments in supercritical fluid chromatography â€" mass spectrometry: Is it a viable option for analysis of complex samples?. TrAC - Trends in Analytical Chemistry, 2019, 112, 212-225.	5.8	80
104	Controlling the surface chemistry and chromatographic properties of methacrylate-ester-based monolithic capillary columnsviaphotografting. Journal of Separation Science, 2007, 30, 407-413.	1.3	78
105	Molecularly imprinted plasmonic nanosensor for selective SERS detection of protein biomarkers. Biosensors and Bioelectronics, 2016, 80, 433-441.	5.3	78
106	â€œThiolâ€"eneâ€•click chemistry: a facile and versatile route for the functionalization of porous polymer monoliths. Analyst, The, 2012, 137, 4114.	1.7	76
107	Monolithic columns with a gradient of functionalities prepared via photoinitiated grafting for separations using capillary electrochromatography. Journal of Separation Science, 2004, 27, 779-788.	1.3	75
108	A Combinatorial Approach to Recognition of Chirality:Â Preparation of Highly Enantioselective Aryl-Dihydropyrimidine Selectors for Chiral HPLC. ACS Combinatorial Science, 1999, 1, 105-112.	3.3	73

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109	Magnetic metalâ€“organic frameworks as scaffolds for spatial co-location and positional assembly of multi-enzyme systems enabling enhanced cascade biocatalysis. RSC Advances, 2017, 7, 21205-21213.	1.7	72
110	Optimization of the porous structure and polarity of polymethacrylateâ€based monolithic capillary columns for the LCâ€MS separation of enzymatic digests. Journal of Separation Science, 2007, 30, 2814-2820.	1.3	71
111	Advances in organic polymer-based monolithic column technology for high-resolution liquid chromatography-mass spectrometry profiling of antibodies, intact proteins, oligonucleotides, and peptides. Journal of Chromatography A, 2017, 1498, 8-21.	1.8	71
112	The Design of Chiral Separation Media Using Monodisperse Functionalized Macroporous Beads:Â Effects of Polymer Matrix, Tether, and Linkage Chemistry. Analytical Chemistry, 1998, 70, 1629-1638.	3.2	70
113	Monolithic Superhydrophobic Polymer Layer with Photopatterned Virtual Channel for the Separation of Peptides Using Two-Dimensional Thin Layer Chromatography-Desorption Electrospray Ionization Mass Spectrometry. Analytical Chemistry, 2010, 82, 2520-2528.	3.2	70
114	Engineering of the Filler/Polymer Interface in Metalâ€“Organic Frameworkâ€Based Mixedâ€Matrix Membranes to Enhance Gas Separation. Chemistry - an Asian Journal, 2019, 14, 3502-3514.	1.7	67
115	Shielded Stationary Phases Based on Porous Polymer Monoliths for the Capillary Electrochromatography of Highly Basic Biomolecules. Analytical Chemistry, 2004, 76, 3887-3892.	3.2	66
116	Hydrophilization of Porous Polystyrene-Based Continuous Rod Column. Analytical Chemistry, 1995, 67, 670-674.	3.2	64
117	â€œMoldedâ€• rods of macroporous polymer for preparative separations of biological products. Biotechnology and Bioengineering, 1995, 48, 476-480.	1.7	64
118	Fine control of the porous structure and chromatographic properties of monodisperse macroporous poly(styrene-co-divinylbenzene) beads prepared using polymer porogens. Journal of Polymer Science Part A, 1994, 32, 2577-2588.	2.5	63
119	In-line system containing porous polymer monoliths for protein digestion with immobilized pepsin, peptide preconcentration and nano-liquid chromatography separation coupled to electrospray ionization mass spectroscopy. Journal of Chromatography A, 2008, 1188, 88-96.	1.8	62
120	Multidimensional system enabling deglycosylation of proteins using a capillary reactor with peptide-N-glycosidase F immobilized on a porous polymer monolith and hydrophilic interaction liquid chromatographyâ€“mass spectrometry of glycans. Journal of Chromatography A, 2009, 1216, 3252-3259.	1.8	61
121	Growth of a Highly Porous Coordination Polymer on a Macroporous Polymer Monolith Support for Enhanced Immobilized Metal Ion Affinity Chromatographic Enrichment of Phosphopeptides. Advanced Functional Materials, 2014, 24, 5790-5797.	7.8	61
122	Polymer-based monolithic microcolumns for hydrophobic interaction chromatography of proteins. Journal of Separation Science, 2006, 29, 25-32.	1.3	58
123	Porous polymer monolith for surface-enhanced laser desorption/ionization time-of-flight mass spectrometry of small molecules. Rapid Communications in Mass Spectrometry, 2004, 18, 1504-1512.	0.7	54
124	Preparation and applications of monolithic structures containing metalâ€“organic frameworks. Journal of Separation Science, 2017, 40, 272-287.	1.3	54
125	Functionalized polyaniline-based composite membranes with vastly improved performance for separation of carbon dioxide from methane. Journal of Membrane Science, 2012, 423-424, 514-521.	4.1	53
126	Downscaling Limits and Confinement Effects in the Miniaturization of Porous Polymer Monoliths in Narrow Bore Capillaries. Analytical Chemistry, 2009, 81, 7390-7396.	3.2	52

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127	Layer-by-Layer Assembly of Metal-Organic Frameworks in Macroporous Polymer Monolith and Their Use for Enzyme Immobilization. Macromolecular Rapid Communications, 2016, 37, 551-557.	2.0	51
128	Monodisperse Hydrolyzed Poly(glycidyl methacrylate-co-ethylene dimethacrylate) Beads as a Stationary Phase for Normal-Phase HPLC. Analytical Chemistry, 1997, 69, 3131-3139.	3.2	49
129	Preparation and functionalization of reactive monodisperse macroporous poly(chloromethylstyrene-co-styrene-co-divinylbenzene) beads by a staged templated suspension polymerization. Journal of Polymer Science Part A, 1997, 35, 2631-2643.	2.5	49
130	Enzyme immobilization techniques on poly(glycidyl methacrylate-co-ethylene dimethacrylate) carrier with penicillin amidase as model. Biotechnology and Bioengineering, 1979, 21, 1317-1332.	1.7	48
131	Reconstruction and Characterization of a Polymer-Based Monolithic Stationary phase using Serial Block-Face Scanning Electron Microscopy. Langmuir, 2012, 28, 16733-16737.	1.6	48
132	Title is missing!. Angewandte Makromolekulare Chemie, 1981, 95, 109-115.	0.3	47
133	â€œMoldedâ€• porous polymer monoliths: A novel format for capillary gas chromatography stationary phases. , 2000, 275, 42-47.		47
134	Inâ€column preparation of a brushâ€type chiral stationary phase using click chemistry and a silica monolith. Journal of Separation Science, 2009, 32, 21-28.	1.3	47
135	Effect of capillary cross-section geometry and size on the separation of proteins in gradient mode using monolithic poly(butyl methacrylate-co-ethylene dimethacrylate) columns. Journal of Chromatography A, 2009, 1216, 2355-2361.	1.8	47
136	High binding capacity surface grafted monolithic columns for cation exchange chromatography of proteins and peptides. Journal of Chromatography A, 2009, 1216, 6824-6830.	1.8	47
137	Preparation of reusable bioreactors using reversible immobilization of enzyme on monolithic porous polymer support with attached gold nanoparticles. Biotechnology and Bioengineering, 2014, 111, 50-58.	1.7	47
138	Hydrophilic Polymer Supports for Solid-Phase Synthesis:Â Preparation of Poly(ethylene glycol) Methacrylate Polymer Beads Using â€œClassicalâ€• Suspension Polymerization in Aqueous Medium and Their Application in the Solid-Phase Synthesis of Hydantoins. ACS Combinatorial Science, 2001, 3, 564-571.	3.3	46
139	CEC: Selected developments that caught my eye since the year 2000. Electrophoresis, 2009, 30, S68-82.	1.3	46
140	Reactive polymers. XXXII. Effect of composition of polymerization feed on morphology and some physical properties of macroporous suspension copolymers glycidyl methacrylateâ€"ethylene dimethacrylate. Journal of Applied Polymer Science, 1981, 26, 411-421.	1.3	44
141	Monolithic stationary phases for enantioselective capillary electrochromatography. Journal of Separation Science, 2000, 12, 597-602.	1.0	44
142	Nanoporous Polymers from Cross-Linked Polymer Precursors via <i>tert</i>-Butyl Group Deprotection and Their Carbon Dioxide Capture Properties. Chemistry of Materials, 2015, 27, 7388-7394.	3.2	44
143	Comparison of different methods of glucose oxidase immobilization. Biotechnology and Bioengineering, 1981, 23, 2093-2104.	1.7	43
144	Monolithic columns: A historical overview. Electrophoresis, 2017, 38, 2810-2820.	1.3	43

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145	Electrospun nanofiber polymers as extraction phases in analytical chemistry â€“ The advances of the last decade. TrAC - Trends in Analytical Chemistry, 2019, 110, 81-96.	5.8	43
146	Preparation of porous styrenics-based monolithic layers for thin layer chromatography coupled with matrix-assisted laser-desorption/ionization time-of-flight mass spectrometric detection. Journal of Chromatography A, 2013, 1316, 154-159.	1.8	42
147	Finite-size effects in the 3D reconstruction and morphological analysis of porous polymers. Materials Today, 2014, 17, 404-411.	8.3	42
148	A comparison study of nanofiber, microfiber, and new composite nano/microfiber polymers used as sorbents for on-line solid phase extraction in chromatography system. Analytica Chimica Acta, 2018, 1023, 44-52.	2.6	42
149	Porous polymer monoliths with large surface area and functional groups prepared via copolymerization of protected functional monomers and hypercrosslinking. Journal of Chromatography A, 2013, 1317, 32-38.	1.8	41
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