

Frantisek Svec

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#	Paper	IF	Citations
294	Continuous rods of macroporous polymer as high-performance liquid chromatography separation media. <i>Analytical Chemistry</i> , 1992 , 64, 820-822	7.8	843
293	New designs of macroporous polymers and supports: from separation to biocatalysis. <i>Science</i> , 1996 , 273, 205-11	33.3	540
292	Porous polymer monoliths: amazingly wide variety of techniques enabling their preparation. <i>Journal of Chromatography A</i> , 2010 , 1217, 902-24	4.5	499
291	Monolithic, Molded Porous Materials with High Flow Characteristics for Separations, Catalysis, or Solid-Phase Chemistry: Control of Porous Properties during Polymerization. <i>Chemistry of Materials</i> , 1996 , 8, 744-750	9.6	403
290	Molded rigid polymer monoliths as separation media for capillary electrochromatography. <i>Analytical Chemistry</i> , 1997 , 69, 3646-9	7.8	380
289	Molded rigid polymer monoliths as separation media for capillary electrochromatography. 1. Fine control of porous properties and surface chemistry. <i>Analytical Chemistry</i> , 1998 , 70, 2288-95	7.8	370
288	Nanoporous polymers for hydrogen storage. <i>Small</i> , 2009 , 5, 1098-111	11	333
287	Monolithic materials: Promises, challenges, achievements. <i>Analytical Chemistry</i> , 2006 , 78, 2101-7	7.8	327
286	High-Performance Membrane Chromatography. A Novel Method of Protein Separation. <i>Journal of Liquid Chromatography and Related Technologies</i> , 1990 , 13, 63-70		313
285	Enzymatic microreactor-on-a-chip: protein mapping using trypsin immobilized on porous polymer monoliths molded in channels of microfluidic devices. <i>Analytical Chemistry</i> , 2002 , 74, 4081-8	7.8	311
284	Monolithic porous polymer for on-chip solid-phase extraction and preconcentration prepared by photoinitiated in situ polymerization within a microfluidic device. <i>Analytical Chemistry</i> , 2001 , 73, 5088-96	7.8	305
283	High Surface Area Nanoporous Polymers for Reversible Hydrogen Storage. <i>Chemistry of Materials</i> , 2006 , 18, 4430-4435	9.6	295
282	Kinetic Control of Pore Formation in Macroporous Polymers. Formation of "Molded" Porous Materials with High Flow Characteristics for Separations or Catalysis. <i>Chemistry of Materials</i> , 1995 , 7, 707-715	9.6	288
281	Porous polymer coatings: a versatile approach to superhydrophobic surfaces. <i>Advanced Functional Materials</i> , 2009 , 19, 1993-1998	15.6	282
280	Macroporous polymeric stationary-phase rod as continuous separation medium for reversed-phase chromatography. <i>Analytical Chemistry</i> , 1993 , 65, 2243-8	7.8	271
279	Advances and recent trends in the field of monolithic columns for chromatography. <i>Analytical Chemistry</i> , 2015 , 87, 250-73	7.8	268
278	Hypercrosslinked polyanilines with nanoporous structure and high surface area: potential adsorbents for hydrogen storage. <i>Journal of Materials Chemistry</i> , 2007 , 17, 4989		263

277	Rigid Macroporous Polymer Monoliths. <i>Advanced Materials</i> , 1999 , 11, 1169-1181	24	263
276	Photografting and the Control of Surface Chemistry in Three-Dimensional Porous Polymer Monoliths. <i>Macromolecules</i> , 2003 , 36, 1677-1684	5.5	229
275	Design of the monolithic polymers used in capillary electrochromatography columns. <i>Journal of Chromatography A</i> , 2000 , 887, 3-29	4.5	220
274	Molded Rigid Monolithic Porous Polymers: An Inexpensive, Efficient, and Versatile Alternative to Beads for the Design of Materials for Numerous Applications. <i>Industrial & Engineering Chemistry Research</i> , 1999 , 38, 34-48	3.9	220
273	Preparation and HPLC applications of rigid macroporous organic polymer monoliths. <i>Journal of Separation Science</i> , 2004 , 27, 747-66	3.4	214
272	Towards stationary phases for chromatography on a microchip: molded porous polymer monoliths prepared in capillaries by photoinitiated in situ polymerization as separation media for electrochromatography. <i>Electrophoresis</i> , 2000 , 21, 120-7	3.6	212
271	Development and application of polymeric monolithic stationary phases for capillary electrochromatography. <i>Journal of Chromatography A</i> , 2004 , 1044, 3-22	4.5	203
270	Temperature, a Simple and Efficient Tool for the Control of Pore Size Distribution in Macroporous Polymers. <i>Macromolecules</i> , 1995 , 28, 7580-7582	5.5	203
269	Recent developments in the field of monolithic stationary phases for capillary electrochromatography. <i>Journal of Separation Science</i> , 2005 , 28, 729-45	3.4	198
268	Molecular imprinting of proteins in polymers attached to the surface of nanomaterials for selective recognition of biomacromolecules. <i>Biotechnology Advances</i> , 2013 , 31, 1172-86	17.8	192
267	Molded rigid polymer monoliths as separation media for capillary electrochromatography. 2. Effect of chromatographic conditions on the separation. <i>Analytical Chemistry</i> , 1998 , 70, 2296-302	7.8	192
266	Preparation of Size-Selective Nanoporous Polymer Networks of Aromatic Rings: Potential Adsorbents for Hydrogen Storage. <i>Chemistry of Materials</i> , 2008 , 20, 7069-7076	9.6	186
265	Molded Macroporous Poly(glycidyl methacrylate-co-trimethylolpropane trimethacrylate) Materials with Fine Controlled Porous Properties: Preparation of Monoliths Using Photoinitiated Polymerization. <i>Chemistry of Materials</i> , 1997 , 9, 463-471	9.6	185
264	Less common applications of monoliths: preconcentration and solid-phase extraction. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2006 , 841, 52-64	3.2	184
263	Porous polymer monolithic column with surface-bound gold nanoparticles for the capture and separation of cysteine-containing peptides. <i>Analytical Chemistry</i> , 2010 , 82, 3352-8	7.8	183
262	Modified poly(glycidyl methacrylate-co-ethylene dimethacrylate) continuous rod columns for preparative-scale ion-exchange chromatography of proteins. <i>Journal of Chromatography A</i> , 1995 , 702, 89-95	4.5	181
261	Dual-function microanalytical device by in situ photolithographic grafting of porous polymer monolith: integrating solid-phase extraction and enzymatic digestion for peptide mass mapping. <i>Analytical Chemistry</i> , 2003 , 75, 5328-35	7.8	179
260	Surface Functionalization of Thermoplastic Polymers for the Fabrication of Microfluidic Devices by Photoinitiated Grafting. <i>Advanced Functional Materials</i> , 2003 , 13, 264-270	15.6	178

259	Organic polymer monoliths as stationary phases for capillary HPLC. <i>Journal of Separation Science</i> , 2004 , 27, 1419-30	3.4	170
258	Flow control valves for analytical microfluidic chips without mechanical parts based on thermally responsive monolithic polymers. <i>Analytical Chemistry</i> , 2003 , 75, 1958-61	7.8	169
257	Incorporation of carbon nanotubes in porous polymer monolithic capillary columns to enhance the chromatographic separation of small molecules. <i>Journal of Chromatography A</i> , 2011 , 1218, 2546-52	4.5	165
256	Preparation of monolithic polymers with controlled porous properties for microfluidic chip applications using photoinitiated free-radical polymerization. <i>Journal of Polymer Science Part A</i> , 2002 , 40, 755-769	2.5	165
255	Reversed-phase chromatography of small molecules and peptides on a continuous rod of macroporous poly(styrene-co-divinylbenzene). <i>Journal of Chromatography A</i> , 1994 , 669, 230-5	4.5	164
254	High-performance membrane chromatography of proteins, a novel method of protein separation. <i>Journal of Chromatography A</i> , 1991 , 555, 97-107	4.5	164
253	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. <i>Analytical Chemistry</i> , 2000 , 72, 4614-22	7.8	161
252	Design of reactive porous polymer supports for high throughput bioreactors: poly(2-vinyl-4,4-dimethylazlactone-co-acrylamide-co-ethylene dimethacrylate) monoliths. <i>Biotechnology and Bioengineering</i> , 1999 , 62, 30-5	4.9	152
251	Reactive polymers I. Macroporous methacrylate copolymers containing epoxy groups. <i>Angewandte Makromolekulare Chemie</i> , 1975 , 48, 135-143		152
250	Highly efficient enzyme reactors containing trypsin and endoproteinase LysC immobilized on porous polymer monolith coupled to MS suitable for analysis of antibodies. <i>Analytical Chemistry</i> , 2009 , 81, 2004-12	7.8	150
249	Porous Polymer Monoliths: Preparation of Sorbent Materials with High-Surface Areas and Controlled Surface Chemistry for High-Throughput, Online, Solid-Phase Extraction of Polar Organic Compounds. <i>Chemistry of Materials</i> , 1998 , 10, 4072-4078	9.6	142
248	Recent advances in the control of morphology and surface chemistry of porous polymer-based monolithic stationary phases and their application in CEC. <i>Electrophoresis</i> , 2007 , 28, 137-47	3.6	140
247	Quest for organic polymer-based monolithic columns affording enhanced efficiency in high performance liquid chromatography separations of small molecules in isocratic mode. <i>Journal of Chromatography A</i> , 2012 , 1228, 250-62	4.5	139
246	Hypercrosslinking: new approach to porous polymer monolithic capillary columns with large surface area for the highly efficient separation of small molecules. <i>Journal of Chromatography A</i> , 2010 , 1217, 8212-21	4.5	139
245	Monolithic Stationary Phases for Capillary Electrochromatography Based on Synthetic Polymers: Designs and Applications. <i>Journal of High Resolution Chromatography</i> , 2000 , 23, 3-18		139
244	Polymer monoliths with exchangeable chemistries: use of gold nanoparticles as intermediate ligands for capillary columns with varying surface functionalities. <i>Analytical Chemistry</i> , 2010 , 82, 7416-21	7.8	138
243	Porous polymer monoliths: simple and efficient mixers prepared by direct polymerization in the channels of microfluidic chips. <i>Electrophoresis</i> , 2001 , 22, 3959-67	3.6	137
242	Efficient separation of small molecules using a large surface area hypercrosslinked monolithic polymer capillary column. <i>Analytical Chemistry</i> , 2010 , 82, 1621-3	7.8	136

241	"Click chemistry" in the preparation of porous polymer-based particulate stationary phases for mu-HPLC separation of peptides and proteins. <i>Analytical Chemistry</i> , 2006 , 78, 4969-75	7.8	136
240	Control of selectivity via nanochemistry: monolithic capillary column containing hydroxyapatite nanoparticles for separation of proteins and enrichment of phosphopeptides. <i>Analytical Chemistry</i> , 2010 , 82, 8335-41	7.8	132
239	Less common applications of monoliths: I. Microscale protein mapping with proteolytic enzymes immobilized on monolithic supports. <i>Electrophoresis</i> , 2006 , 27, 947-61	3.6	132
238	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. <i>Journal of Proteome Research</i> , 2002 , 1, 563-8	5.6	131
237	Separation of oligonucleotides on novel monolithic columns with ion-exchange functional surfaces. <i>Journal of Chromatography A</i> , 1999 , 852, 297-304	4.5	127
236	Fabrication of porous polymer monoliths covalently attached to the walls of channels in plastic microdevices. <i>Electrophoresis</i> , 2003 , 24, 3689-93	3.6	125
235	Photopatterning enzymes on polymer monoliths in microfluidic devices for steady-state kinetic analysis and spatially separated multi-enzyme reactions. <i>Analytical Chemistry</i> , 2007 , 79, 6592-8	7.8	124
234	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. <i>Analytical Chemistry</i> , 2000 , 72, 4623-8	7.8	121
233	Molded monolithic rod of macroporous poly(styrene-co-divinylbenzene) as a separation medium for HPLC of synthetic polymers: on-column precipitation--redissolution chromatography as an alternative to size exclusion chromatography of styrene oligomers and polymers. <i>Analytical Chemistry</i> , 1996 , 68, 315-21	7.8	121
232	Less common applications of monoliths: IV. Recent developments in immobilized enzyme reactors for proteomics and biotechnology. <i>Journal of Separation Science</i> , 2009 , 32, 706-18	3.4	119
231	Chiral electrochromatography with a shoulded rigid monolithic capillary column. <i>Analytical Communications</i> , 1998 , 35, 83-86		115
230	Patternable Protein Resistant Surfaces for Multifunctional Microfluidic Devices via Surface Hydrophilization of Porous Polymer Monoliths Using Photografting. <i>Chemistry of Materials</i> , 2006 , 18, 5950-5957	9.6	114
229	Porous monoliths for on-line sample preparation: A review. <i>Analytica Chimica Acta</i> , 2017 , 964, 24-44	6.6	111
228	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. <i>Macromolecules</i> , 2001 , 34, 4361-4369	5.5	111
227	Preparation of porous polymer monoliths featuring enhanced surface coverage with gold nanoparticles. <i>Journal of Chromatography A</i> , 2012 , 1261, 121-8	4.5	110
226	Polymeric monolithic stationary phases for capillary electrochromatography. <i>Electrophoresis</i> , 2002 , 23, 3934-53	3.6	110
225	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		104
224	Stability and repeatability of capillary columns based on porous monoliths of poly(butyl methacrylate-co-ethylene dimethacrylate). <i>Journal of Chromatography A</i> , 2007 , 1140, 140-6	4.5	104

223	Capillary electrochromatography in anion-exchange and normal-phase mode using monolithic stationary phases. <i>Journal of Chromatography A</i> , 2001 , 925, 265-77	4.5	104
222	"Reactive filtration": use of functionalized porous polymer monoliths as scavengers in solution-phase synthesis. <i>Organic Letters</i> , 2000 , 2, 195-8	6.2	101
221	Rapid reversed-phase separation of proteins and peptides using optimized 'moulded' monolithic poly(styrene-co-divinylbenzene) columns. <i>Journal of Chromatography A</i> , 1999 , 865, 169-74	4.5	98
220	Control of Porous Properties and Surface Chemistry in Molded Porous Polymer Monoliths Prepared by Polymerization in the Presence of TEMPO. <i>Macromolecules</i> , 1999 , 32, 6377-6379	5.5	97
219	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. <i>Journal of Chromatography A</i> , 1996 , 752, 59-66	4.5	97
218	Monolithic porous polymer stationary phases in polyimide chips for the fast high-performance liquid chromatography separation of proteins and peptides. <i>Journal of Chromatography A</i> , 2008 , 1200, 55-61	4.5	96
217	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. <i>Analytical Chemistry</i> , 2012 , 84, 8457-60	7.8	94
216	Latex-functionalized monolithic columns for the separation of carbohydrates by micro anion-exchange chromatography. <i>Journal of Chromatography A</i> , 2004 , 1053, 101-106	4.5	94
215	Porous polymer monoliths functionalized through copolymerization of a C60 fullerene-containing methacrylate monomer for highly efficient separations of small molecules. <i>Analytical Chemistry</i> , 2011 , 83, 9478-84	7.8	93
214	Preparation of Large-Diameter Molded Porous Polymer Monoliths and the Control of Pore Structure Homogeneity. <i>Chemistry of Materials</i> , 1997 , 9, 1898-1902	9.6	92
213	Photopolymerized monolithic capillary columns for rapid micro high-performance liquid chromatographic separation of proteins. <i>Journal of Chromatography A</i> , 2004 , 1051, 53-60	4.5	91
212	Chip electrochromatography. <i>Journal of Chromatography A</i> , 2004 , 1044, 97-111	4.5	89
211	Use of Stable Free Radicals for the Sequential Preparation and Surface Grafting of Functionalized Macroporous Monoliths. <i>Macromolecules</i> , 2000 , 33, 7769-7775	5.5	89
210	Fast ion-exchange HPLC of proteins using porous poly(glycidyl methacrylate-co-ethylene dimethacrylate) monoliths grafted with poly(2-acrylamido-2-methyl-1-propanesulfonic acid). <i>Biotechnology Progress</i> , 1997 , 13, 597-600	2.8	87
209	Thermally responsive rigid polymer monoliths. <i>Advanced Materials</i> , 1997 , 9, 630-633	24	87
208	Magnetic AuNP@Fe ₃ O ₄ nanoparticles as reusable carriers for reversible enzyme immobilization. <i>Chemical Engineering Journal</i> , 2016 , 286, 272-281	14.7	85
207	Less common applications of monoliths. III. Gas chromatography. <i>Journal of Chromatography A</i> , 2008 , 1184, 281-95	4.5	84
206	Light-actuated high pressure-resisting microvalve for on-chip flow control based on thermo-responsive nanostructured polymer. <i>Lab on A Chip</i> , 2008 , 8, 1198-204	7.2	81

205	Methacrylate-based chromatographic media. <i>Journal of Separation Science</i> , 2005 , 28, 1855-75	3.4	81
204	Immobilization of trypsin onto "molded" macroporous poly(glycidyl methacrylate-co-ethylene dimethacrylate) rods and use of the conjugates as bioreactors and for affinity chromatography. <i>Biotechnology and Bioengineering</i> , 1996 , 49, 355-63	4.9	81
203	Immobilization of trypsin onto "molded" macroporous poly(glycidyl methacrylate-co-ethylene dimethacrylate) rods and use of the conjugates as bioreactors and for affinity chromatography 1996 , 49, 355		81
202	Open-tubular capillary columns with a porous layer of monolithic polymer for highly efficient and fast separations in electrochromatography. <i>Electrophoresis</i> , 2006 , 27, 4249-56	3.6	79
201	Macroporous photopolymer frits for capillary electrochromatography. <i>Analytical Chemistry</i> , 2000 , 72, 1224-7	7.8	77
200	Controlling the surface chemistry and chromatographic properties of methacrylate-ester-based monolithic capillary columns via photografting. <i>Journal of Separation Science</i> , 2007 , 30, 407-13	3.4	76
199	Monolithic porous polymer layer for the separation of peptides and proteins using thin-layer chromatography coupled with MALDI-TOF-MS. <i>Analytical Chemistry</i> , 2007 , 79, 486-93	7.8	76
198	Grafted macroporous polymer monolithic disks: a new format of scavengers for solution-phase combinatorial chemistry. <i>ACS Combinatorial Science</i> , 2001 , 3, 216-23		75
197	Methacrylate gels with epoxide groups as supports for immobilization of enzymes in pH range 3-12. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1978 , 524, 162-9	3.8	75
196	"Thiol-ene" click chemistry: a facile and versatile route for the functionalization of porous polymer monoliths. <i>Analyst, The</i> , 2012 , 137, 4114-8	5	74
195	Control of pore formation in macroporous polymers synthesized by single-step γ -radiation-initiated polymerization and cross-linking. <i>Polymer</i> , 2005 , 46, 2862-2871	3.9	74
194	Hydrophilic surface modification of cyclic olefin copolymer microfluidic chips using sequential photografting. <i>Journal of Separation Science</i> , 2007 , 30, 1088-93	3.4	72
193	Monolithic columns with a gradient of functionalities prepared via photoinitiated grafting for separations using capillary electrochromatography. <i>Journal of Separation Science</i> , 2004 , 27, 779-88	3.4	71
192	A new approach to the preparation of large surface area poly(styrene-co-divinylbenzene) monoliths via knitting of loose chains using external crosslinkers and application of these 'monolithic' columns for separation of small molecules. <i>Polymer</i> , 2014 , 55, 340-346	3.9	70
191	A combinatorial approach to recognition of chirality: preparation of highly enantioselective aryl-dihydropyrimidine selectors for chiral HPLC. <i>ACS Combinatorial Science</i> , 1999 , 1, 105-12		70
190	Monodisperse polymer beads as packing material for high-performance liquid chromatography: 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. <i>Journal of Polymer Science Part A</i> , 1994 , 32, 2169-2175	2.5	70
189	Optimization of the porous structure and polarity of polymethacrylate-based monolithic capillary columns for the LC-MS separation of enzymatic digests. <i>Journal of Separation Science</i> , 2007 , 30, 2814-20	3.4	67
188	Monolithic superhydrophobic polymer layer with photopatterned virtual channel for the separation of peptides using two-dimensional thin layer chromatography-desorption electrospray ionization mass spectrometry. <i>Analytical Chemistry</i> , 2010 , 82, 2520-8	7.8	65

- 187 Shielded stationary phases based on porous polymer monoliths for the capillary electrochromatography of highly basic biomolecules. *Analytical Chemistry*, **2004**, 76, 3887-92 7.8 64
- 186 Hierarchical Micro- and Mesoporous Zn-Based Metal-Organic Frameworks Templated by Hydrogels: Their Use for Enzyme Immobilization and Catalysis of Knoevenagel Reaction. *Small*, **2019**, 15, e1902927 11 63
- 185 The design of chiral separation media using monodisperse functionalized macroporous beads: effects of polymer matrix, tether, and linkage chemistry. *Analytical Chemistry*, **1998**, 70, 1629-38 7.8 63
- 184 Molecularly imprinted plasmonic nanosensor for selective SERS detection of protein biomarkers. *Biosensors and Bioelectronics*, **2016**, 80, 433-441 11.8 59
- 183 Hydrophilization of porous polystyrene-based continuous rod column. *Analytical Chemistry*, **1995**, 67, 670-4 7.8 58
- 182 "Molded" rods of macroporous polymer for preparative separations of biological products. *Biotechnology and Bioengineering*, **1995**, 48, 476-80 4.9 57
- 181 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 4.5 57
- 180 Polymer-based monolithic microcolumns for hydrophobic interaction chromatography of proteins. *Journal of Separation Science*, **2006**, 29, 25-32 3.4 57
- 179 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 chromatography-mass spectrometry of glycans. *Journal of Chromatography A*, **2009**, 1216, 3252-9 4.5 55
- 178 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 15.6 54
- 177 Recent developments in supercritical fluid chromatography μ mass spectrometry: Is it a viable option for analysis of complex samples?. *TrAC - Trends in Analytical Chemistry*, **2019**, 112, 212-225 14.6 54
- 176 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 4.5 53
- 175 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 53
- 174 Downscaling limits and confinement effects in the miniaturization of porous polymer monoliths in narrow bore capillaries. *Analytical Chemistry*, **2009**, 81, 7390-6 7.8 52
- 173 Magnetic metal-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 3.7 51
- 172 Porous polymer monolith for surface-enhanced laser desorption/ionization time-of-flight mass spectrometry of small molecules. *Rapid Communications in Mass Spectrometry*, **2004**, 18, 1504-12 2.2 49
- 171 Layer-by-Layer Assembly of Metal-Organic Frameworks in Macroporous Polymer Monolith and Their Use for Enzyme Immobilization. *Macromolecular Rapid Communications*, **2016**, 37, 551-7 4.8 48
- 170 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 48

169	Preparation and applications of monolithic structures containing metal-organic frameworks. <i>Journal of Separation Science</i> , 2017 , 40, 272-287	3.4	47
168	Reconstruction and characterization of a polymer-based monolithic stationary phase using serial block-face scanning electron microscopy. <i>Langmuir</i> , 2012 , 28, 16733-7	4	46
167	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. <i>Journal of Chromatography A</i> , 2009 , 1216, 2355-61	4.5	46
166	Molded porous polymer monoliths: A novel format for capillary gas chromatography stationary phases 2000 , 275, 42-47		46
165	High binding capacity surface grafted monolithic columns for cation exchange chromatography of proteins and peptides. <i>Journal of Chromatography A</i> , 2009 , 1216, 6824-30	4.5	45
164	Engineering of the Filler/Polymer Interface in Metal-Organic Framework-Based Mixed-Matrix Membranes to Enhance Gas Separation. <i>Chemistry - an Asian Journal</i> , 2019 , 14, 3502-3514	4.5	44
163	Preparation of reusable bioreactors using reversible immobilization of enzyme on monolithic porous polymer support with attached gold nanoparticles. <i>Biotechnology and Bioengineering</i> , 2014 , 111, 50-8	4.9	44
162	Functionalized polyaniline-based composite membranes with vastly improved performance for separation of carbon dioxide from methane. <i>Journal of Membrane Science</i> , 2012 , 423-424, 514-521	9.6	44
161	Monodisperse hydrolyzed poly(glycidyl methacrylate-co-ethylene dimethacrylate) beads as a stationary phase for normal-phase HPLC. <i>Analytical Chemistry</i> , 1997 , 69, 3131-9	7.8	44
160	CEC: selected developments that caught my eye since the year 2000. <i>Electrophoresis</i> , 2009 , 30 Suppl 1, S68-82	3.6	43
159	Hydrophilic polymer supports for solid-phase synthesis: preparation of poly(ethylene glycol) methacrylate polymer beads using "classical" suspension polymerization in aqueous medium and their application in the solid-phase synthesis of hydantoins. <i>ACS Combinatorial Science</i> , 2001 , 3, 564-71		42
158	Finite-size effects in the 3D reconstruction and morphological analysis of porous polymers. <i>Materials Today</i> , 2014 , 17, 404-411	21.8	41
157	In-column preparation of a brush-type chiral stationary phase using click chemistry and a silica monolith. <i>Journal of Separation Science</i> , 2009 , 32, 21-8	3.4	41
156	Enzyme immobilization techniques on poly(glycidyl methacrylate-co-ethylene dimethacrylate) carrier with penicillin amidase as model. <i>Biotechnology and Bioengineering</i> , 1979 , 21, 1317-32	4.9	41
155	Nanoporous Polymers from Cross-Linked Polymer Precursors via tert-Butyl Group Deprotection and Their Carbon Dioxide Capture Properties. <i>Chemistry of Materials</i> , 2015 , 27, 7388-7394	9.6	39
154	Preparation of porous styrenics-based monolithic layers for thin layer chromatography coupled with matrix-assisted laser-desorption/ionization time-of-flight mass spectrometric detection. <i>Journal of Chromatography A</i> , 2013 , 1316, 154-9	4.5	39
153	Porous polymer monolithic columns with gold nanoparticles as an intermediate ligand for the separation of proteins in reverse phase-ion exchange mixed mode. <i>Journal of Advanced Research</i> , 2015 , 6, 441-8	13	39
152	Monolithic stationary phases for enantioselective capillary electrochromatography. <i>Journal of Separation Science</i> , 2000 , 12, 597-602		39

151	Comparison of different methods of glucose oxidase immobilization. <i>Biotechnology and Bioengineering</i> , 1981 , 23, 2093-2104	4.9	39
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2	Which Chromatographia Papers Have Influenced My Favorite Field: Monolithic Columns. <i>Chromatographia</i> , 2019 , 82, 5-6	2.1	
1	UHPLC coupled with charged aerosol detector for rapid separation of steviol glycosides in commercial sweeteners and extract of <i>Stevia rebaudiana</i> . <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2022 , 207, 114398	3.5	