Xiangmin Zhang

List of Publications by Citations

237 papers	11,416 citations	57 h-index	94 g-index
243 ext. papers	12,112 ext. citations	5.4 avg, IF	6.45 L-index

#	Paper	IF	Citations
237	Superparamagnetic high-magnetization microspheres with an Fe3O4@SiO2 core and perpendicularly aligned mesoporous SiO2 shell for removal of microcystins. *Journal of the American Chemical Society*, **2008**, 130, 28-9	16.4	1459
236	Synthesis of Magnetic Microspheres with Immobilized Metal Ions for Enrichment and Direct Determination of Phosphopeptides by Matrix-Assisted Laser Desorption Ionization Mass Spectrometry. *Advanced Materials*, **2006**, 18, 3289-3293	24	326
235	Synthesis of Fe(3)O(4)@SiO(2)@PMMA core-shell-shell magnetic microspheres for highly efficient enrichment of peptides and proteins for MALDI-ToF MS analysis. *Angewandte Chemie - International Edition*, **2010**, 49, 607-11	16.4	321
234	Synthesis of Core/Shell Colloidal Magnetic Zeolite Microspheres for the Immobilization of Trypsin. *Advanced Materials*, **2009**, 21, 1377-1382	24	259
233	Preparation of Fe3O4@ZrO2 core-shell microspheres as affinity probes for selective enrichment and direct determination of phosphopeptides using matrix-assisted laser desorption ionization mass spectrometry. *Journal of Proteome Research*, **2007**, 6, 4498-510	5.6	156
232	Investigation of volatile biomarkers in lung cancer blood using solid-phase microextraction and capillary gas chromatography-mass spectrometry. *Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences*, **2004**, 808, 269-77	3.2	151
231	Facile synthesis of copper(II) immobilized on magnetic mesoporous silica microspheres for selective enrichment of peptides for mass spectrometry analysis. *Angewandte Chemie - International Edition*, **2010**, 49, 7557-61	16.4	148
230	Preparation of polypyrrole-coated magnetic particles for micro solid-phase extraction of phthalates in water by gas chromatography-mass spectrometry analysis. *Journal of Chromatography A*, **2011**, 1218, 1585-91	4.5	145
229	The design and synthesis of a hydrophilic core-shell-shell structured magnetic metal-organic framework as a novel immobilized metal ion affinity platform for phosphoproteome research. *Chemical Communications*, **2014**, 50, 6228-31	5.8	141
228	Functionalized magnetic nanoparticles for sample preparation in proteomics and peptidomics analysis. *Chemical Society Reviews*, **2013**, 42, 8517-39	58.5	135
227	Novel Fe3O4@TiO2 core-shell microspheres for selective enrichment of phosphopeptides in phosphoproteome analysis. *Journal of Proteome Research*, **2008**, 7, 2526-38	5.6	130
226	Fe3O4@Al2O3 magnetic core-shell microspheres for rapid and highly specific capture of phosphopeptides with mass spectrometry analysis. *Journal of Chromatography A*, **2007**, 1172, 57-71	4.5	129
225	Facile synthesis of aminophenylboronic acid-functionalized magnetic nanoparticles for selective separation of glycopeptides and glycoproteins. *Chemical Communications*, **2008**, 5577-9	5.8	126
224	Immobilization of trypsin on superparamagnetic nanoparticles for rapid and effective proteolysis. *Journal of Proteome Research*, **2007**, 6, 3849-55	5.6	126
223	Determination of acetone in human breath by gas chromatography-mass spectrometry and solid-phase microextraction with on-fiber derivatization. *Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences*, **2004**, 810, 269-75	3.2	126
222	Facile synthesis of Ti(4+)-immobilized Fe3O4@polydopamine core-shell microspheres for highly selective enrichment of phosphopeptides. *Chemical Communications*, **2013**, 49, 5055-7	5.8	125
221	Novel approach for the synthesis of Fe3O4@TiO2 core-shell microspheres and their application to the highly specific capture of phosphopeptides for MALDI-TOF MS analysis. *Chemical Communications*, **2008**, 564-6	5.8	125

220	Preparation of Fe3O4@C@PANI magnetic microspheres for the extraction and analysis of phenolic compounds in water samples by gas chromatography-mass spectrometry. *Journal of Chromatography A*, **2011**, 1218, 2841-7	4.5	119
219	On-plate-selective enrichment of glycopeptides using boronic acid-modified gold nanoparticles for direct MALDI-QIT-TOF MS analysis. *Proteomics*, **2009**, 9, 5046-55	4.8	106
218	Development of microwave-assisted extraction followed by headspace single-drop microextraction for fast determination of paeonol in traditional Chinese medicines. *Journal of Chromatography A*, **2006**, 1103, 15-21	4.5	106
217	Fast and efficient proteolysis by microwave-assisted protein digestion using trypsin-immobilized magnetic silica microspheres. *Analytical Chemistry*, **2008**, 80, 3655-65	7.8	105
216	Preparation, characterization and application of magnetic silica nanoparticle functionalized multi-walled carbon nanotubes. *Chemical Communications*, **2005**, 5548-50	5.8	98
215	Facile Synthesis of Mercaptophenylboronic Acid-Functionalized Core□Shell Structure Fe3O4@ Magnetic Microspheres for Selective Enrichment of Glycopeptides and Glycoproteins. *Journal of Physical Chemistry C*, **2010**, 114, 9221-9226	3.8	96
214	Efficient on-chip proteolysis system based on functionalized magnetic silica microspheres. *Proteomics*, **2007**, 7, 2330-9	4.8	88
213	Synthesis of highly water-dispersible polydopamine-modified multiwalled carbon nanotubes for matrix-assisted laser desorption/ionization mass spectrometry analysis. *ACS Applied Materials & Interfaces*, **2013**, 5, 7770-6	9.5	86
212	Magnetically Responsive Fe3O4@C@SnO2 Core□Shell Microspheres: Synthesis, Characterization and Application in Phosphoproteomics. *Journal of Physical Chemistry C*, **2009**, 113, 15854-15861	3.8	85
211	Highly selective and rapid enrichment of phosphorylated peptides using gallium oxide-coated magnetic microspheres for MALDI-TOF-MS and nano-LC-ESI-MS/MS/MS analysis. *Proteomics*, **2008**, 8, 238-49	4.8	85
210	Gas chromatography-mass spectrometric analysis of hexanal and heptanal in human blood by headspace single-drop microextraction with droplet derivatization. *Analytical Biochemistry*, **2005**, 342, 318-26	3.1	83
209	Rapid determination of essential oil in Acorus tatarinowii Schott. by pressurized hot water extraction followed by solid-phase microextraction and gas chromatography-mass spectrometry. *Journal of Chromatography A*, **2004**, 1059, 149-55	4.5	78
208	Fast determination of curcumol, curdione and germacrone in three species of Curcuma rhizomes by microwave-assisted extraction followed by headspace solid-phase microextraction and gas chromatography-mass spectrometry. *Journal of Chromatography A*, **2006**, 1117, 115-20	4.5	76
207	Development of headspace solid-phase microextraction with on-fiber derivatization for determination of hexanal and heptanal in human blood. *Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences*, **2004**, 813, 47-52	3.2	76
206	Determination of essential oil in a traditional Chinese medicine, Fructus amomi by pressurized hot water extraction followed by liquid-phase microextraction and gas chromatography□mass spectrometry. *Analytica Chimica Acta*, **2005**, 536, 237-244	6.6	76
205	Recent developments in sample preparation techniques for chromatography analysis of traditional Chinese medicines. *Journal of Chromatography A*, **2007**, 1153, 90-6	4.5	75
204	Cerium ion-chelated magnetic silica microspheres for enrichment and direct determination of phosphopeptides by matrix-assisted laser desorption ionization mass spectrometry. *Journal of Proteome Research*, **2008**, 7, 1767-77	5.6	74
203	Transition-metal-free decarboxylative C3-difluoroarylmethylation of quinoxalin-2(1H)-ones with □difluoroarylacetic acids. *Organic Chemistry Frontiers*, **2019**, 6, 1173-1182	5.2	74

202	Microchip reactor packed with metal-ion chelated magnetic silica microspheres for highly efficient proteolysis. *Journal of Proteome Research*, **2007**, 6, 2367-75	5.6	73
201	Size-exclusive magnetic graphene/mesoporous silica composites with titanium(IV)-immobilized pore walls for selective enrichment of endogenous phosphorylated peptides. *ACS Applied Materials & Interfaces*, **2014**, 6, 11799-804	9.5	72
200	Synthesis of polydopamine-coated magnetic graphene for Cu(2+) immobilization and application to the enrichment of low-concentration peptides for mass spectrometry analysis. *ACS Applied Materials & Interfaces*, **2013**, 5, 13104-12	9.5	72
199	A Facile Synthesis Approach to C8-Functionalized Magnetic Carbonaceous Polysaccharide Microspheres for the Highly Efficient and Rapid Enrichment of Peptides and Direct MALDI-TOF-MS Analysis. *Advanced Materials*, **2009**, 21, 2200-2205	24	72
198	Enrichment of peptides in serum by C(8)-functionalized magnetic nanoparticles for direct matrix-assisted laser desorption/ionization time-of-flight mass spectrometry analysis. *Journal of Chromatography A*, **2008**, 1185, 93-101	4.5	72
197	Designed synthesis of MOF-derived magnetic nanoporous carbon materials for selective enrichment of glycans for glycomics analysis. *Nanoscale*, **2015**, 7, 6487-91	7.7	71
196	Field analysis of benzene, toluene, ethylbenzene and xylene in water by portable gas chromatography-microflame ionization detector combined with headspace solid-phase microextraction. *Talanta*, **2006**, 69, 894-9	6.2	70
195	Rapid determination of essential oil compounds in Artemisia Selengensis Turcz by gas chromatography-mass spectrometry with microwave distillation and simultaneous solid-phase microextraction. *Analytica Chimica Acta*, **2006**, 556, 289-294	6.6	69
194	Synthesis of Fe3O4/graphene/TiO2 composites for the highly selective enrichment of phosphopeptides from biological samples. *ACS Applied Materials & Interfaces*, **2013**, 5, 7330-4	9.5	68
193	On-chip enzymatic microreactor using trypsin-immobilized superparamagnetic nanoparticles for highly efficient proteolysis. *Journal of Chromatography A*, **2007**, 1176, 169-77	4.5	66
192	Self-assembling covalent organic framework functionalized magnetic graphene hydrophilic biocomposites as an ultrasensitive matrix for N-linked glycopeptide recognition. *Nanoscale*, **2017**, 9, 10750-10756	7.7	65
191	Concanavalin A-immobilized magnetic nanoparticles for selective enrichment of glycoproteins and application to glycoproteomics in hepatocelluar carcinoma cell line. *Proteomics*, **2010**, 10, 2000-14	4.8	64
190	Novel microwave-assisted digestion by trypsin-immobilized magnetic nanoparticles for proteomic analysis. *Journal of Proteome Research*, **2008**, 7, 1297-307	5.6	64
189	Graphene and graphene oxide: two ideal choices for the enrichment and ionization of long-chain fatty acids free from matrix-assisted laser desorption/ionization matrix interference. *Rapid Communications in Mass Spectrometry*, **2011**, 25, 3223-34	2.2	63
188	Preparation of magnetic core mesoporous shell microspheres with C18-modified interior pore-walls for fast extraction and analysis of phthalates in water samples. *Journal of Chromatography A*, **2011**, 1218, 6232-9	4.5	61
187	Development of core-shell structure Fe3O4@Ta2O5 microspheres for selective enrichment of phosphopeptides for mass spectrometry analysis. *Journal of Chromatography A*, **2009**, 1216, 5533-9	4.5	61
186	Multilayer Hydrophilic Poly(phenol-formaldehyde resin)-Coated Magnetic Graphene for Boronic Acid Immobilization as a Novel Matrix for Glycoproteome Analysis. *ACS Applied Materials & Interfaces*, **2015**, 7, 16011-7	9.5	59
185	Determination of acetone, hexanal and heptanal in blood samples by derivatization with pentafluorobenzyl hydroxylamine followed by headspace single-drop microextraction and gas chromatography–mass spectrometry. *Analytica Chimica Acta*, **2005**, 540, 317-323	6.6	59

184	Preparation of C60-functionalized magnetic silica microspheres for the enrichment of low-concentration peptides and proteins for MALDI-TOF MS analysis. *Proteomics*, **2009**, 9, 380-7	4.8	58
183	Recent advances in covalent organic frameworks for separation and analysis of complex samples. *TrAC - Trends in Analytical Chemistry*, **2018**, 108, 98-109	14.6	57
182	Highly selective enrichment of N-linked glycan by carbon-functionalized ordered graphene/mesoporous silica composites. *Analytical Chemistry*, **2014**, 86, 2246-50	7.8	57
181	Facile synthesis of C8-functionalized magnetic silica microspheres for enrichment of low-concentration peptides for direct MALDI-TOF MS analysis. *Proteomics*, **2008**, 8, 2778-84	4.8	57
180	Gas chromatography-mass spectrometry following microwave distillation and headspace solid-phase microextraction for fast analysis of essential oil in dry traditional Chinese medicine. *Journal of Chromatography A*, **2006**, 1133, 29-34	4.5	57
179	A simple, rapid and sensitive method for determination of aldehydes in human blood by gas chromatography/mass spectrometry and solid-phase microextraction with on-fiber derivatization. *Rapid Communications in Mass Spectrometry*, **2004**, 18, 1715-20	2.2	57
178	Integrated Proteome Analysis Device for Fast Single-Cell Protein Profiling. *Analytical Chemistry*, **2018**, 90, 14003-14010	7.8	56
177	Novel nitrocellulose membrane substrate for efficient analysis of circulating tumor cells coupled with surface-enhanced Raman scattering imaging. *ACS Applied Materials & Interfaces*, **2014**, 6, 370-6	9.5	54
176	Development of Versatile Metal-Organic Framework Functionalized Magnetic Graphene Core-Shell Biocomposite for Highly Specific Recognition of Glycopeptides. *ACS Applied Materials & Interfaces*, **2016**, 8, 27482-27489	9.5	54
175	Ultrasensitive Proteome Profiling for 100 Living Cells by Direct Cell Injection, Online Digestion and Nano-LC-MS/MS Analysis. *Analytical Chemistry*, **2015**, 87, 6674-80	7.8	53
174	Phosphate-functionalized magnetic microspheres for immobilization of Zr(4+) ions for selective enrichment of the phosphopeptides. *Journal of Chromatography A*, **2010**, 1217, 2606-17	4.5	53
173	Selective separation and enrichment of peptides for MS analysis using the microspheres composed of Fe3O4@nSiO2 core and perpendicularly aligned mesoporous SiO2 shell. *Proteomics*, **2010**, 10, 930-9	4.8	53
172	Development of gas chromatography-mass spectrometry following microwave distillation and simultaneous headspace single-drop microextraction for fast determination of volatile fraction in Chinese herb. *Journal of Chromatography A*, **2007**, 1152, 193-8	4.5	52
171	Single step on-column frit making for capillary high-performance liquid chromatography using sol-gel technology. *Journal of Chromatography A*, **2001**, 910, 13-8	4.5	52
170	Unprecedented highly efficient capture of glycopeptides by FeO@Mg-MOF-74 core-shell nanoparticles. *Chemical Communications*, **2017**, 53, 4018-4021	5.8	51
169	Functionalized magnetic nanomaterials as solid-phase extraction adsorbents for organic pollutants in environmental analysis. *Analytical Methods*, **2014**, 6, 7130	3.2	51
168	Quantitative determination of chlorogenic acid in Honeysuckle using microwave-assisted extraction followed by nano-LC-ESI mass spectrometry. *Talanta*, **2009**, 77, 1299-303	6.2	51
167	High throughput identification of components from traditional Chinese medicine herbs by utilizing graphene or graphene oxide as MALDI-TOF-MS matrix. *Journal of Mass Spectrometry*, **2011**, 46, 804-15	2.2	50

166	Large scale depletion of the high-abundance proteins and analysis of middle- and low-abundance proteins in human liver proteome by multidimensional liquid chromatography. *Proteomics*, **2008**, 8, 939-47	4.8	50
165	Metal oxide affinity chromatography platform-polydopamine coupled functional two-dimensional titania graphene nanohybrid for phosphoproteome research. *Analytical Chemistry*, **2014**, 86, 4327-32	7.8	49
164	Preparation of sandwich-structured graphene/mesoporous silica composites with C8-modified pore wall for highly efficient selective enrichment of endogenous peptides for mass spectrometry analysis. *Proteomics*, **2012**, 12, 2784-91	4.8	49
163	Development of gas chromatography-mass spectrometry following headspace single-drop microextraction and simultaneous derivatization for fast determination of short-chain aliphatic amines in water samples. *Journal of Chromatography A*, **2006**, 1131, 45-50	4.5	48
162	Rapid determination of amino acids in neonatal blood samples based on derivatization with isobutyl chloroformate followed by solid-phase microextraction and gas chromatography/mass spectrometry. *Rapid Communications in Mass Spectrometry*, **2004**, 18, 2558-64	2.2	48
161	Comprehensive two-dimensional chromatography and capillary electrophoresis coupled with tandem time-of-flight mass spectrometry for high-speed proteome analysis. *Electrophoresis*, **2004**, 25, 2374-83	3.6	48
160	Rapid determination of acetone in human plasma by gas chromatography-mass spectrometry and solid-phase microextraction with on-fiber derivatization. *Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences*, **2004**, 805, 235-40	3.2	48
159	Hydrothermal synthesis of □Fe(2)O(3)@SnO(2) core-shell nanotubes for highly selective enrichment of phosphopeptides for mass spectrometry analysis. *Nanoscale*, **2010**, 2, 1892-900	7.7	47
158	Highly sensitive thrombin detection by matrix assisted laser desorption ionization-time of flight mass spectrometry with aptamer functionalized core-shell Fe□□@C@Au magnetic microspheres. *Talanta*, **2012**, 88, 295-302	6.2	46
157	Headspace single-drop microextraction with in-drop derivatization for aldehyde analysis. *Journal of Separation Science*, **2005**, 28, 2301-5	3.4	46
156	Facile synthesis of magnetic metal organic frameworks for the enrichment of low-abundance peptides for MALDI-TOF MS analysis. *Proteomics*, **2013**, 13, 3387-92	4.8	45
155	A rapid and simple method for efficient capture and accurate discrimination of circulating tumor cells using aptamer conjugated magnetic beads and surface-enhanced Raman scattering imaging. *Analytical and Bioanalytical Chemistry*, **2015**, 407, 8883-92	4.4	45
154	Designed synthesis of aptamer-immobilized magnetic mesoporous silica/Au nanocomposites for highly selective enrichment and detection of insulin. *ACS Applied Materials & Interfaces*, **2015**, 7, 8451-6	9.5	44
153	Facile preparation of raisin-bread sandwich-structured magnetic graphene/mesoporous silica composites with C18-modified pore-walls for efficient enrichment of phthalates in environmental water. *Journal of Chromatography A*, **2014**, 1325, 65-71	4.5	44
152	Magnetic binary metal oxides affinity probe for highly selective enrichment of phosphopeptides. *ACS Applied Materials & Interfaces*, **2014**, 6, 11775-82	9.5	44
151	Facile synthesis of magnetic poly(styrene-co-4-vinylbenzene-boronic acid) microspheres for selective enrichment of glycopeptides. *Proteomics*, **2015**, 15, 2158-65	4.8	44
150	Preparation of magnetic core-mesoporous shell microspheres with C8-modified interior pore-walls and their application in selective enrichment and analysis of mouse brain peptidome. *Proteomics*, **2011**, 11, 4503-13	4.8	44
149	Rapid analysis of essential oil from Fructus Amomi by pressurized hot water extraction followed by solid-phase microextraction and gas chromatography-mass spectrometry. *Journal of Pharmaceutical and Biomedical Analysis*, **2005**, 38, 326-31	3.5	44

148	A method to estimate the octanol-air partition coefficient of semivolatile organic compounds. *Analytical Chemistry*, **1999**, 71, 3834-8	7.8	44
147	Facile synthesis of hydrophilic magnetic graphene@metal–organic framework for highly selective enrichment of phosphopeptides. *RSC Advances*, **2015**, 5, 35361-35364	3.7	42
146	Microwave-assisted steam distillation for the determination of organochlorine pesticides and pyrethroids in Chinese teas. *Talanta*, **2007**, 71, 1068-74	6.2	42
145	Comprehensive two-dimensional separations based on capillary high-performance liquid chromatography and microchip electrophoresis. *Electrophoresis*, **2003**, 24, 1451-7	3.6	42
144	Recent advances in the application of core-shell structured magnetic materials for the separation and enrichment of proteins and peptides. *Journal of Chromatography A*, **2014**, 1357, 182-93	4.5	41
143	Facile synthesis of Fe3O4@mesoporous TiO2 microspheres for selective enrichment of phosphopeptides for phosphoproteomics analysis. *Talanta*, **2013**, 105, 20-7	6.2	41
142	Development of mesoporous TiO(2) microspheres with high specific surface area for selective enrichment of phosphopeptides by mass spectrometric analysis. *Journal of Chromatography A*, **2010** , 1217, 2197-205	4.5	41
141	Comprehensive two-dimensional capillary LC and CE for resolution of neutral components in traditional Chinese medicines. *Journal of Separation Science*, **2001**, 24, 385-391	3.4	39
140	High throughput detection of tetracycline residues in milk using graphene or graphene oxide as MALDI-TOF MS matrix. *Journal of the American Society for Mass Spectrometry*, **2012**, 23, 1424-7	3.5	38
139	Development of microwave-assisted protein digestion based on trypsin-immobilized magnetic microspheres for highly efficient proteolysis followed by matrix-assisted laser desorption/ionization time-of-flight mass spectrometry analysis. *Rapid Communications in Mass Spectrometry*, **2007**, 21, 3910-8	2.2	38
138	Comprehensive two-dimensional separation in coupling of reversed-phase chromatography with capillary isoelectric focusing followed by MALDI-MS identification using on-target digestion for intact protein analysis. *Electrophoresis*, **2006**, 27, 2100-10	3.6	38
137	Capillary array reversed-phase liquid chromatography-based multidimensional separation system coupled with MALDI-TOF-TOF-MS detection for high-throughput proteome analysis. *Journal of Proteome Research*, **2006**, 5, 3186-96	5.6	38
136	Development of microwave-assisted derivatization followed by gas chromatography/mass spectrometry for fast determination of amino acids in neonatal blood samples. *Rapid Communications in Mass Spectrometry*, **2005**, 19, 2227-34	2.2	38
135	Facile preparation of magnetic graphene double-sided mesoporous composites for the selective enrichment and analysis of endogenous peptides. *Proteomics*, **2013**, 13, 2243-50	4.8	37
134	Enzyme inhibitor screening by electrospray mass spectrometry with immobilized enzyme on magnetic silica microspheres. *Journal of the American Society for Mass Spectrometry*, **2008**, 19, 865-73	3.5	37
133	A simple pathway to the synthesis of magnetic nanoparticles with immobilized metal ions for the fast removal of microcystins in water. *Small*, **2007**, 3, 1714-7	11	36
132	Rapid determination of panaxynol in a traditional Chinese medicine of Saposhnikovia divaricata by pressurized hot water extraction followed by liquid-phase microextraction and gas chromatography-mass spectrometry. *Talanta*, **2005**, 68, 6-11	6.2	36
131	Rapid synthesis of titanium(IV)-immobilized magnetic mesoporous silica nanoparticles for endogenous phosphopeptides enrichment. *Proteomics*, **2017**, 17, 1600320	4.8	35

130	An aptamer based on-plate microarray for high-throughput insulin detection by MALDI-TOF MS. *Chemical Communications*, **2012**, 48, 2689-91	5.8	35
129	Functionalized magnetic carbonaceous microspheres for trypsin immobilization and the application to fast proteolysis. *Journal of Chromatography A*, **2008**, 1215, 82-91	4.5	35
128	Development of pressurized hot water extraction followed by headspace solid-phase microextraction and gas chromatography-mass spectrometry for determination of ligustilides in Ligusticum chuanxiong and Angelica sinensis. *Journal of Separation Science*, **2005**, 28, 1237-43	3.4	35
127	Selective enrichment of phosphopeptides by titania nanoparticles coated magnetic carbon nanotubes. *Talanta*, **2014**, 118, 14-20	6.2	34
126	On-plate digestion of proteins using novel trypsin-immobilized magnetic nanospheres for MALDI-TOF-MS analysis. *Proteomics*, **2007**, 7, 3661-71	4.8	34
125	Separation and identification of volatile constituents in Artemisia argyi flowers by GC-MS with SPME and steam distillation. *Journal of Chromatographic Science*, **2008**, 46, 401-5	1.4	33
124	Development of microwave-assisted extraction followed by headspace solid-phase microextraction and gas chromatography-mass spectrometry for quantification of camphor and borneol in Flos Chrysanthemi Indici. *Analytica Chimica Acta*, **2006**, 575, 120-5	6.6	33
123	Synthesis of Fe3O4@SiO2@PMMA Core□Shell□Shell Magnetic Microspheres for Highly Efficient Enrichment of Peptides and Proteins for MALDI-ToF MS Analysis. *Angewandte Chemie*, **2010**, 122, 617-621	3.6	32
122	Field analysis of acetaldehyde in mainstream tobacco smoke using solid-phase microextraction and a portable gas chromatograph. *Journal of Chromatography A*, **2008**, 1198-1199, 34-7	4.5	32
121	Development of aptamer-conjugated magnetic graphene/gold nanoparticle hybrid nanocomposites for specific enrichment and rapid analysis of thrombin by MALDI-TOF MS. *Talanta*, **2014**, 129, 282-9	6.2	31
120	Development of a MALDI-TOF MS strategy for the high-throughput analysis of biomarkers: on-target aptamer immobilization and laser-accelerated proteolysis. *Angewandte Chemie - International Edition*, **2013**, 52, 6055-8	16.4	31
119	Rapid diagnosis of phenylketonuria and other aminoacidemias by quantitative analysis of amino acids in neonatal blood spots by gas chromatography-mass spectrometry. *Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences*, **2002**, 775, 115-20	3.2	31
118	Core-shell magnetic bimetallic MOF material for synergistic enrichment of phosphopeptides. *Talanta*, **2020**, 206, 120165	6.2	31
117	Facile Synthesis of Copper(II)Immobilized on Magnetic Mesoporous Silica Microspheres for Selective Enrichment of Peptides for Mass Spectrometry Analysis. *Angewandte Chemie*, **2010**, 122, 7719-7723	3.6	30
116	Multidimensional capillary array liquid chromatography and matrix-assisted laser desorption/ionization tandem mass spectrometry for high-throughput proteomic analysis. *Journal of Chromatography A*, **2007**, 1139, 191-8	4.5	30
115	Development of water-phase derivatization followed by solid-phase microextraction and gas chromatography/mass spectrometry for fast determination of valproic acid in human plasma. *Rapid Communications in Mass Spectrometry*, **2006**, 20, 1281-7	2.2	30
114	Novel synthesis of glucose functionalized magnetic graphene hydrophilic nanocomposites via facile thiolation for high-efficient enrichment of glycopeptides. *Talanta*, **2018**, 179, 377-385	6.2	29
113	Comprehensive two-dimensional separation system by coupling capillary reverse-phase liquid chromatography to capillary isoelectric focusing for peptide and protein mapping with laser-induced fluorescence detection. *Electrophoresis*, **2003**, 24, 3289-95	3.6	29

112	Polydopamine-coated eppendorf tubes for Ti⊞ immobilization for selective enrichment of phosphopeptides. *Talanta*, **2014**, 127, 88-93	6.2	28
111	Large-bore particle-entrapped monolithic precolumns prepared by a sol-gel method for on-line peptides trapping and preconcentration in multidimensional liquid chromatography system for proteome analysis. *Journal of Chromatography A*, **2005**, 1072, 223-32	4.5	28
110	Deconstruction of Heterogeneity of Size-Dependent Exosome Subpopulations from Human Urine by Profiling N-Glycoproteomics and Phosphoproteomics Simultaneously. *Analytical Chemistry*, **2020**, 92, 9239-9246	7.8	27
109	Versatile metal-organic framework-functionalized magnetic graphene nanoporous composites: As deft matrix for high-effective extraction and purification of the N-linked glycans. *Analytica Chimica Acta*, **2016**, 932, 41-8	6.6	27
108	Functional dual hydrophilic dendrimer-modified metal-organic framework for the selective enrichment of N-glycopeptides. *Proteomics*, **2017**, 17, e1700005	4.8	26
107	Highly efficient enrichment of low-abundance intact proteins by core-shell structured FeO-chitosan@graphene composites. *Talanta*, **2017**, 174, 845-852	6.2	26
106	Development of oleic acid-functionalized magnetite nanoparticles as hydrophobic probes for concentrating peptides with MALDI-TOF-MS analysis. *Proteomics*, **2011**, 11, 890-7	4.8	26
105	Novel monolithic enzymatic microreactor based on single-enzyme nanoparticles for highly efficient proteolysis and its application in multidimensional liquid chromatography. *Journal of Chromatography A*, **2009**, 1216, 7472-7	4.5	26
104	Comparison of 2-D LC and 3-D LC with post- and pre-tryptic-digestion SEC fractionation for proteome analysis of normal human liver tissue. *Proteomics*, **2007**, 7, 500-512	4.8	26
103	Preparation of a thickness-controlled Mg-MOFs-based magnetic graphene composite as a novel hydrophilic matrix for the effective identification of the glycopeptide in the human urine. *Nanoscale*, **2019**, 11, 3701-3709	7.7	25
102	Characterization of Urinary Exosomes Purified with Size Exclusion Chromatography and Ultracentrifugation. *Journal of Proteome Research*, **2020**, 19, 2217-2225	5.6	25
101	Novel strategy of high-abundance protein depletion using multidimensional liquid chromatography. *Journal of Proteome Research*, **2006**, 5, 2853-60	5.6	25
100	Rapid determination of acetone in human blood by derivatization with pentafluorobenzyl hydroxylamine followed by headspace liquid-phase microextraction and gas chromatography/mass spectrometry. *Rapid Communications in Mass Spectrometry*, **2005**, 19, 647-53	2.2	25
99	Fast field analysis of short-chain aliphatic amines in water using solid-phase microextraction and a portable gas chromatograph. *Journal of Separation Science*, **2008**, 31, 3225-30	3.4	24
98	Diagnosis of congenital adrenal hyperplasia by rapid determination of 17alpha-hydroxyprogesterone in dried blood spots by gas chromatography/mass spectrometry following microwave-assisted silylation. *Rapid Communications in Mass Spectrometry*, **2005**, 19, 2974-8	2.2	24
97	Highly selective SiO-NH@TiO hollow microspheres for simultaneous enrichment of phosphopeptides and glycopeptides. *Analytical and Bioanalytical Chemistry*, **2017**, 409, 1607-1614	4.4	23
96	Development of high performance liquid chromatography with immobilized enzyme onto magnetic nanospheres for screening enzyme inhibitor. *Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences*, **2008**, 871, 67-71	3.2	23
95	Surface-enhanced Raman scattering (SERS) imaging-guided real-time photothermal ablation of target cancer cells using polydopamine-encapsulated gold nanorods as multifunctional agents. *Analytical and Bioanalytical Chemistry*, **2017**, 409, 4915-4926	4.4	23

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