

Pavel N Nesterenko

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/7179785/pavel-n-nesterenko-publications-by-year.pdf>

Version: 2024-04-17

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

249
papers

5,481
citations

39
h-index

57
g-index

258
ext. papers

6,031
ext. citations

4.2
avg, IF

5.99
L-index

#	Paper	IF	Citations
249	Sensitivity Increase in Headspace Analysis of Hydrocarbons in Water by Using Online Selective Elimination of Gas Extractant. <i>Separations</i> , 2022 , 9, 15	3.1	0
248	Solid-phase analytical derivatization as a tool for the quantification of steroid hormones in human urine with HPLC-Q-ToF detection.. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2022 , 214, 114736	3.5	0
247	Chromatographic properties of hydrogenated microdiamond synthesized by high pressure and high temperature.. <i>Journal of Chromatography A</i> , 2022 , 1673, 463127	4.5	0
246	Recent advances and applications of synthetic diamonds in solid-phase extraction and high-performance liquid chromatography. <i>Journal of Chromatography A</i> , 2021 , 1640, 461936	4.5	5
245	Adsorption of Synthetic Dyes Under the Conditions of Capillary Zone Electrophoresis. <i>Moscow University Chemistry Bulletin</i> , 2021 , 76, 127-132	0.5	0
244	Comparison of Adsorbents Containing Carbon Nanotubes for Express Pre-Concentration of Volatile Organic Compounds from the Air Flow. <i>Separations</i> , 2021 , 8, 50	3.1	1
243	Chromatomebrane preconcentration of phenols using a new 3D printed microflow cell followed by reversed-phase HPLC determination. <i>Journal of Separation Science</i> , 2021 , 44, 2449-2456	3.4	2
242	Hydrophobicity of polymer based anion-exchange columns for ion chromatography. <i>Heliyon</i> , 2021 , 7, e07290	3.6	8
241	New composite stationary phase for chiral high-performance liquid chromatography. <i>Journal of Porous Materials</i> , 2021 , 28, 407-414	2.4	4
240	Determination of Trace Bromate in Drinking Water with High Chloride Matrix by Cyclic Ion Chromatography. <i>Journal of Chromatographic Science</i> , 2021 , 59, 217-222	1.4	1
239	A new method for highly efficient separation and determination of arsenic species in natural water using silica modified with polyamines. <i>Analytica Chimica Acta</i> , 2021 , 1178, 338824	6.6	2
238	Estimation of the Polarity of Stationary Phases for Gas Chromatography Based on Spectral Parameters. <i>Journal of Applied Spectroscopy</i> , 2021 , 88, 749-754	0.7	2
237	Solid-phase extraction of alkylphosphonic and O-alkyl alkylphosphonic acids followed by HPLC separation using porous graphitic carbon sorbent. <i>Journal of Chromatography A</i> , 2021 , 1653, 462420	4.5	0
236	An approach for feature selection with data modelling in LC-MS metabolomics. <i>Analytical Methods</i> , 2020 , 12, 3582-3591	3.2	1
235	Simultaneous Determination of Synthetic Food Dyes Using a Single Cartridge for Preconcentration and Separation Followed by Photometric Detection. <i>International Journal of Analytical Chemistry</i> , 2020 , 2020, 1-6	1.4	4
234	Modeling of butyric acid recognition by molecular imprinted polyimide. <i>Journal of Molecular Modeling</i> , 2020 , 26, 194	2	2
233	3D printing in analytical chemistry: current state and future. <i>Pure and Applied Chemistry</i> , 2020 , 92, 1341-1355	2.1	21

232	Development of polydimethylsiloxane-microdiamond composite materials for application as sorptive devices. <i>Journal of Chromatography A</i> , 2020 , 1613, 460669	4.5	3
231	Comparative study of different polar adsorbents for adsorption of water soluble vitamins. <i>Adsorption</i> , 2020 , 26, 339-348	2.6	5
230	Recent advances in stir-bar sorptive extraction: Coatings, technical improvements, and applications. <i>Analytica Chimica Acta</i> , 2020 , 1139, 222-240	6.6	30
229	Determination of inorganic anions in weak acids by using ion exclusion chromatography - Capillary ion chromatography switching column technique. <i>Journal of Chromatography A</i> , 2019 , 1588, 169-173	4.5	3
228	Capillary gap flow cell as capillary-end electrochemical detector in flow-based analysis. <i>Electrochimica Acta</i> , 2019 , 303, 85-93	6.7	4
227	High-temperature gold-copper extraction with chloride flux in lava tubes of Tolbachik volcano (Kamchatka). <i>Terra Nova</i> , 2019 , 31, 511-517	3	1
226	Determination of Metals in Natural Waters by Inductively Coupled Plasma Optical Emission Spectroscopy after Preconcentration on Silica Sequentially Coated with Layers of Polyhexamethylene Guanidinium and Sulphonated Nitrosonaphthols. <i>International Journal of Analytical Chemistry</i> , 2019 , 2019, 1467631	1.4	10
225	Ion chromatographic determination of hydrazine in excess ammonia for monitoring graphene oxide reduction reaction. <i>Talanta</i> , 2019 , 205, 120081	6.2	8
224	Enhanced organic species identification via laser structuring of carbon monolithic surfaces. <i>Applied Surface Science</i> , 2019 , 493, 829-837	6.7	
223	High-throughput deposition of chemical reagents via pen-plotting technique for microfluidic paper-based analytical devices. <i>Analytica Chimica Acta</i> , 2019 , 1047, 115-123	6.6	20
222	Prospects of pulsed amperometric detection in flow-based analytical systems - A review. <i>Analytica Chimica Acta</i> , 2019 , 1052, 10-26	6.6	20
221	Separation of superparamagnetic magnetite nanoparticles by capillary zone electrophoresis using non-complexing and complexing electrolyte anions and tetramethylammonium as dispersing additive. <i>Electrophoresis</i> , 2018 , 39, 1429-1436	3.6	8
220	Miniaturised electrically actuated high pressure injection valve for portable capillary liquid chromatography. <i>Talanta</i> , 2018 , 180, 32-35	6.2	12
219	A new 3D printed radial flow-cell for chemiluminescence detection: Application in ion chromatographic determination of hydrogen peroxide in urine and coffee extracts. <i>Analytica Chimica Acta</i> , 2018 , 1005, 81-92	6.6	26
218	Fractionation of Dissolved Organic Matter on Coupled Reversed-Phase Monolithic Columns and Characterisation Using Reversed-Phase Liquid Chromatography-High Resolution Mass Spectrometry. <i>Chromatographia</i> , 2018 , 81, 203-213	2.1	8
217	Mixed-Mode Liquid Chromatography on Core Shell Stationary Phases based on Layer-By-Layer Nanodiamond/Polyamine Architecture. <i>Current Chromatography</i> , 2018 , 5, 5-17	0.4	3
216	Comparison of cation-exchange capillary columns used for ion chromatographic separation of biogenic amines. <i>Journal of Chromatography A</i> , 2018 , 1571, 193-200	4.5	8
215	Micro-Capillary Coatings Based on Spiropyran Polymeric Brushes for Metal Ion Binding, Detection, and Release in Continuous Flow. <i>Sensors</i> , 2018 , 18,	3.8	8

214	Current and future impact of 3D printing on the separation sciences. <i>TrAC - Trends in Analytical Chemistry</i> , 2018 , 105, 492-502	14.6	72
213	Investigating the Effect of Column Geometry on Separation Efficiency using 3D Printed Liquid Chromatographic Columns Containing Polymer Monolithic Phases. <i>Analytical Chemistry</i> , 2018 , 90, 1186-1194	7.8	33
212	High power deep UV-LEDs for analytical optical instrumentation. <i>Sensors and Actuators B: Chemical</i> , 2018 , 255, 1238-1243	8.5	14
211	Liquid Chromatography Principles 2018 , 231-231		
210	Ion Exchange Overview 2018 , 204-204		
209	Increased elastic modulus of plasma polymer coatings reinforced with detonation nanodiamond particles improves osteogenic differentiation of mesenchymal stem cells. <i>Turkish Journal of Biology</i> , 2018 , 42, 195-203	3.1	1
208	Low-Cost Passive Sampling Device with Integrated Porous Membrane Produced Using Multimaterial 3D Printing. <i>Analytical Chemistry</i> , 2018 , 90, 12081-12089	7.8	33
207	Multi-lumen capillary based trypsin micro-reactor for the rapid digestion of proteins. <i>Analyst, The</i> , 2018 , 143, 4944-4953	5	8
206	Regularities of adsorption of water-soluble vitamins on the surface of microdispersed sintered detonation nanodiamond. <i>Adsorption</i> , 2018 , 24, 637-645	2.6	1
205	High sensitivity deep-UV LED-based z-cell photometric detector for capillary liquid chromatography. <i>Analytica Chimica Acta</i> , 2018 , 1032, 197-202	6.6	13
204	3D printed LED based on-capillary detector housing with integrated slit. <i>Analytica Chimica Acta</i> , 2017 , 965, 131-136	6.6	34
203	Ion-exchange properties of High Pressure High Temperature synthetic diamond. <i>Diamond and Related Materials</i> , 2017 , 75, 131-139	3.5	7
202	New strategies for stationary phase integration within centrifugal microfluidic platforms for applications in sample preparation and pre-concentration. <i>Analytical Methods</i> , 2017 , 9, 1998-2006	3.2	10
201	Modification of the surface chemistry of microdispersed sintered detonation nanodiamonds and its effect on the adsorption properties. <i>Adsorption</i> , 2017 , 23, 639-650	2.6	10
200	Elemental analysis of nanodiamonds by inductively coupled plasma hyphenated methods 2017 , 109-130		2
199	UiO-66@SiO core-shell microparticles as stationary phases for the separation of small organic molecules. <i>Analyst, The</i> , 2017 , 142, 517-524	5	34
198	Ion chromatography 2017 , 205-244		5
197	Enhanced physicochemical properties of polydimethylsiloxane based microfluidic devices and thin films by incorporating synthetic micro-diamond. <i>Scientific Reports</i> , 2017 , 7, 15109	4.9	28

196	Geometrical Alignment of Multiple Fabrication Steps for Rapid Prototyping of Microfluidic Paper-Based Analytical Devices. <i>Analytical Chemistry</i> , 2017 , 89, 11918-11923	7.8	23
195	Evaluation of a miniaturised single-stage thermal modulator for comprehensive two-dimensional gas chromatography of petroleum contaminated soils. <i>Journal of Chromatography A</i> , 2016 , 1463, 162-8	4.5	15
194	Recent developments in 3D printable composite materials. <i>RSC Advances</i> , 2016 , 6, 60355-60371	3.7	185
193	Ultra-Fast Continuous-Flow Photo Degradation of Organic Peroxide Explosives for Their Efficient Conversion into Hydrogen Peroxide and Possible Application. <i>Propellants, Explosives, Pyrotechnics</i> , 2016 , 41, 757-763	1.7	3
192	Investigation of adsorption of phenols on detonation nanodiamonds using liquid column chromatography. <i>Diamond and Related Materials</i> , 2016 , 64, 49-56	3.5	14
191	3D printed titanium micro-bore columns containing polymer monoliths for reversed-phase liquid chromatography. <i>Analytica Chimica Acta</i> , 2016 , 910, 84-94	6.6	55
190	Flow-dependent separation selectivity for organic molecules on metal-organic frameworks containing adsorbents. <i>Chemical Communications</i> , 2016 , 52, 5301-4	5.8	12
189	Ion-exchange properties of microdispersed sintered detonation nanodiamond. <i>Adsorption</i> , 2016 , 22, 371-383	2.6	15
188	Porous, High Capacity Coatings for Solid Phase Microextraction by Sputtering. <i>Analytical Chemistry</i> , 2016 , 88, 1593-600	7.8	17
187	Simple, quantitative method for low molecular weight dissolved organic matter extracted from natural waters based upon high performance counter-current chromatography. <i>Analytica Chimica Acta</i> , 2016 , 909, 129-38	6.6	5
186	Overview At the Third Milestone: Outputs. <i>Current Chromatography</i> , 2016 , 3, 1-1	0.4	
185	Precise and fast determination of inorganic magnesium in coccolithophore calcite. <i>Chemical Geology</i> , 2016 , 437, 1-6	4.2	2
184	A 3D printable diamond polymer composite: a novel material for fabrication of low cost thermally conducting devices. <i>RSC Advances</i> , 2016 , 6, 38140-38147	3.7	84
183	Performance of a New 235 nm UV-LED-Based On-Capillary Photometric Detector. <i>Analytical Chemistry</i> , 2016 , 88, 12116-12121	7.8	41
182	Application of capillary ion chromatography and capillary ion chromatography coupled with mass spectrometry to determine methanesulfonate and inorganic anions in microliter sample volumes of Antarctic snow and ice. <i>Analytical Methods</i> , 2016 , 8, 7650-7660	3.2	3
181	A simple and sensitive method for the determination of iodide and iodate in raw, ultraviolet- and ozone-treated aquacultural seawater samples using ion chromatography coupled to an ultraviolet detector. <i>Analytical Methods</i> , 2016 , 8, 5587-5595	3.2	18
180	Chromatographic behaviour of synthetic high pressure high temperature diamond in aqueous normal phase chromatography. <i>Journal of Chromatography A</i> , 2016 , 1470, 59-69	4.5	9
179	Application of photo degradation for remediation of cyclic nitramine and nitroaromatic explosives. <i>RSC Advances</i> , 2016 , 6, 77603-77621	3.7	16

178	Chromatographic performance of synthetic polycrystalline diamond as a stationary phase in normal phase high performance liquid chromatography. <i>Journal of Chromatography A</i> , 2015 , 1391, 49-59	4.5	14
177	Hierarchical porous graphitic carbon monoliths with detonation nanodiamonds: synthesis, characterisation and adsorptive properties. <i>Journal of Materials Science</i> , 2015 , 50, 6245-6259	4.3	8
176	Anion exchangers with branched functional ion exchange layers of different hydrophilicity for ion chromatography. <i>Journal of Chromatography A</i> , 2015 , 1408, 78-86	4.5	30
175	Thermally controlled growth of carbon onions within porous graphitic carbon-detonation nanodiamond monolithic composites. <i>RSC Advances</i> , 2015 , 5, 22906-22915	3.7	10
174	Simultaneous Analysis of Inorganic Monovalent Anions/Cations Using Mixed-Bed Single-Column Ion Chromatography. <i>Chromatographia</i> , 2015 , 78, 179-187	2.1	5
173	Micellar electrokinetic chromatography of organic and peroxide-based explosives. <i>Analytica Chimica Acta</i> , 2015 , 876, 91-7	6.6	4
172	Electrodeposition of palladium nanoparticles on porous graphitized carbon monolith modified carbon paste electrode for simultaneous enhanced determination of ascorbic acid and uric acid. <i>Sensors and Actuators B: Chemical</i> , 2015 , 218, 280-288	8.5	27
171	Miniaturised medium pressure capillary liquid chromatography system with flexible open platform design using off-the-shelf microfluidic components. <i>Analytica Chimica Acta</i> , 2015 , 896, 166-76	6.6	35
170	Capillary ion chromatography with on-column focusing for ultra-trace analysis of methanesulfonate and inorganic anions in limited volume Antarctic ice core samples. <i>Journal of Chromatography A</i> , 2015 , 1409, 182-8	4.5	10
169	Chromatographic methods for the isolation, separation and characterisation of dissolved organic matter. <i>Environmental Sciences: Processes and Impacts</i> , 2015 , 17, 1531-67	4.3	39
168	Phytoplankton calcification as an effective mechanism to alleviate cellular calcium poisoning. <i>Biogeosciences</i> , 2015 , 12, 6493-6501	4.6	21
167	Determination of trace magnesium and strontium in calcium carbonate and calcareous skeletons of marine planktonic organisms using high performance chelation ion chromatography. <i>Analytical Methods</i> , 2015 , 7, 416-422	3.2	1
166	Flow injection analysis of organic peroxide explosives using acid degradation and chemiluminescent detection of released hydrogen peroxide. <i>Talanta</i> , 2015 , 143, 191-197	6.2	12
165	Assessing the extent, stability, purity and properties of silanised detonation nanodiamond. <i>Applied Surface Science</i> , 2015 , 357, 397-406	6.7	11
164	Back-flushing and heart cut capillary gas chromatography using planar microfluidic DeansS switching for the separation of benzene and alkylbenzenes in industrial samples. <i>Journal of Chromatography A</i> , 2015 , 1421, 123-8	4.5	4
163	Comment on "Structural characterization of dissolved organic matter: a review of current techniques for isolation and analysis" by E. C. Minor, M. M. Swenson, B. M. Mattson, and A. R. Oyler, <i>Environ. Sci.: Processes Impacts</i> , 2014, 16, 2064. <i>Environmental Sciences: Processes and Impacts</i> , 2015 , 17, 187-1	4.3	4
162	Organic solvent and temperature-enhanced ion chromatography-high resolution mass spectrometry for the determination of low molecular weight organic and inorganic anions. <i>Analytica Chimica Acta</i> , 2015 , 865, 83-91	6.6	17
161	Novel Anion Exchangers with Spatially Distant Trimethylammonium Groups in Linear and Branched Hydrophilic Functional Layers. <i>Chromatographia</i> , 2015 , 78, 147-155	2.1	15

160	Determination of trace labile copper in environmental waters by magnetic nanoparticle solid phase extraction and high-performance chelation ion chromatography. <i>Talanta</i> , 2015 , 135, 155-62	6.2	38
159	Investigation on Selectivity of Mercaptopropylsilica and Silver Nanoparticles- Functionalised Mercaptopropylsilica. <i>Current Chromatography</i> , 2015 , 2, 122-135	0.4	4
158	Screening of elemental impurities in commercial detonation nanodiamond using sector field inductively coupled plasma-mass spectrometry. <i>Journal of Materials Science</i> , 2014 , 49, 3573-3591	4.3	32
157	Determination of fluoride ions in urinary stones by ion chromatography. <i>Journal of Analytical Chemistry</i> , 2014 , 69, 474-479	1.1	8
156	Preparation and characterisation of anion exchangers with dihydroxy-containing alkyl substitutes in the quaternary ammonium functional groups. <i>Journal of Chromatography A</i> , 2014 , 1323, 104-14	4.5	26
155	Functionalisation of mesoporous silica gel with 2-[(phosphonomethyl)-amino]acetic acid functional groups. Characterisation and application. <i>Applied Surface Science</i> , 2014 , 288, 373-380	6.7	17
154	Comprehensive analysis of pharmaceutical products using simultaneous mixed-mode (ion-exchange/reversed-phase) and hydrophilic interaction liquid chromatography. <i>Journal of Separation Science</i> , 2014 , 37, 2138-44	3.4	25
153	Normal-phase high-performance counter-current chromatography for the fractionation of dissolved organic matter from a freshwater source. <i>Journal of Separation Science</i> , 2014 , 37, 135-42	3.4	7
152	3D printed metal columns for capillary liquid chromatography. <i>Analyst, The</i> , 2014 , 139, 6343-7	5	76
151	Comparison of electrochemical property between multiwalled carbon nanotubes and porous graphitized carbon monolith modified glassy carbon electrode for the simultaneous determination of ascorbic acid and uric acid. <i>Journal of Electroanalytical Chemistry</i> , 2014 , 731, 53-59	4.1	12
150	Investigation into dissolved neutral sugars and their microbial conversion in natural and artificially produced dissolved organic matter using ion chromatography with pulsed amperometric detection and reversed-phase liquid chromatography-high resolution mass spectrometry. <i>Analytical Methods</i> , 2014 , 6, 107-114	3.2	5
149	Focussed ion beam serial sectioning and imaging of monolithic materials for 3D reconstruction and morphological parameter evaluation. <i>Analyst, The</i> , 2014 , 139, 99-104	5	8
148	Microwave-assisted purification of detonation nanodiamond. <i>Diamond and Related Materials</i> , 2014 , 48, 37-46	3.5	24
147	The importance of chain length for the polyphosphate enhancement of acidic potassium permanganate chemiluminescence. <i>Analytica Chimica Acta</i> , 2014 , 842, 35-41	6.6	5
146	Diamond based adsorbents and their application in chromatography. <i>Journal of Chromatography A</i> , 2014 , 1357, 68-86	4.5	45
145	Separation and characterisation of detonation nanodiamond by capillary zone electrophoresis. <i>Electrophoresis</i> , 2014 , 35, 1864-72	3.6	11
144	Capillary electrophoresis for the analysis of paralytic shellfish poisoning toxins in shellfish: comparison of detection methods. <i>Electrophoresis</i> , 2014 , 35, 1496-503	3.6	24
143	Fabrication and characterisation of gold nano-particle modified polymer monoliths for flow-through catalytic reactions and their application in the reduction of hexacyanoferrate. <i>Mikrochimica Acta</i> , 2014 , 181, 249-256	5.8	18

142	Nano-particle modified stationary phases for high-performance liquid chromatography. <i>Analyst, The</i> , 2013 , 138, 4229-54	5	59
141	Adsorption and desorption of methylene blue on porous carbon monoliths and nanocrystalline cellulose. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 8796-804	9.5	247
140	Fabrication and characterization of nanotemplated carbon monolithic material. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 8572-80	9.5	9
139	A new N-hydroxyethyliminodiacetic acid modified core-shell silica phase for chelation ion chromatography of alkaline earth, transition and rare earth elements. <i>Journal of Chromatography A</i> , 2013 , 1321, 56-64	4.5	7
138	Ion Chromatography 2013 , 157-191		6
137	On-line simultaneous and rapid separation of anions and cations from a single sample using dual-capillary sequential injection-capillary electrophoresis. <i>Analytica Chimica Acta</i> , 2013 , 781, 80-7	6.6	53
136	Ion-exchange and hydrophobic interactions affecting selectivity for neutral and charged solutes on three structurally similar agglomerated ion-exchange and mixed-mode stationary phases. <i>Analytica Chimica Acta</i> , 2013 , 803, 143-53	6.6	32
135	Single column comprehensive analysis of pharmaceutical preparations using dual-injection mixed-mode (ion-exchange and reversed-phase) and hydrophilic interaction liquid chromatography. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2013 , 86, 174-81	3.5	14
134	Fast direct determination of strontium in seawater using high-performance chelation ion chromatography. <i>Microchemical Journal</i> , 2013 , 111, 8-15	4.8	11
133	Iminodiacetic acid functionalised organopolymer monoliths: application to the separation of metal cations by capillary high-performance chelation ion chromatography. <i>Analytical and Bioanalytical Chemistry</i> , 2013 , 405, 2207-17	4.4	11
132	Chelation ion chromatography of alkaline earth and transition metals a using monolithic silica column with bonded N-hydroxyethyliminodiacetic acid functional groups. <i>Journal of Chromatography A</i> , 2013 , 1276, 102-11	4.5	17
131	Direct determination of transition metals in mussel tissue digests using high-performance chelation ion chromatography with monolithic silica based chelating ion exchangers. <i>Analytical Methods</i> , 2013 , 5, 2666	3.2	7
130	Direct sector field ICP-MS determination of metal impurities in detonation nanodiamond. <i>Carbon</i> , 2013 , 60, 326-334	10.4	36
129	Direct chromatographic separation and quantification of calcium and magnesium in seawater and sediment porewaters. <i>Limnology and Oceanography: Methods</i> , 2013 , 11, 466-474	2.6	4
128	Chelidamic Acid as a New Eluent for the Determination of Fe(II) and Fe(III) Species and Other Metals by High Performance Chelation Ion Chromatography. <i>Chromatographia</i> , 2012 , 75, 867-873	2.1	7
127	Zinc marine biogeochemistry in seawater: a review. <i>Marine and Freshwater Research</i> , 2012 , 63, 644	2.2	23
126	Ion chromatographic determination of hydrolysis products of hexafluorophosphate salts in aqueous solution. <i>Analytica Chimica Acta</i> , 2012 , 714, 121-6	6.6	117
125	Investigation of polar organic solvents compatible with Corona Charged Aerosol Detection and their use for the determination of sugars by hydrophilic interaction liquid chromatography. <i>Analytica Chimica Acta</i> , 2012 , 750, 199-206	6.6	43

124	Separation of selected transition metals by capillary chelation ion chromatography using acetyl-iminodiacetic acid modified capillary polymer monoliths. <i>Journal of Chromatography A</i> , 2012 , 1249, 155-63	4.5	16
123	Porous graphitized carbon monolith as an electrode material for probing direct bioelectrochemistry and selective detection of hydrogen peroxide. <i>Analytical Chemistry</i> , 2012 , 84, 2351-7	7.8	39
122	Agglomerated polymer monoliths with bimetallic nano-particles as flow-through micro-reactors. <i>Mikrochimica Acta</i> , 2012 , 179, 149-156	5.8	10
121	Reversed phase high performance liquid chromatographic determination of dissolved aluminium in open ocean seawater. <i>Limnology and Oceanography: Methods</i> , 2012 , 10, 832-839	2.6	2
120	Fast and sensitive determination of aluminium with RP-HPLC using an ultra-short monolithic column. <i>Analytical Methods</i> , 2011 , 3, 2488	3.2	1
119	Pellicular particles with spherical carbon cores and porous nanodiamond/polymer shells for reversed-phase HPLC. <i>Analytical Chemistry</i> , 2011 , 83, 5488-501	7.8	48
118	Kinetics and selectivity of permanganate chemiluminescence: a study of hydroxyl and amino disubstituted benzene positional isomers. <i>Analytica Chimica Acta</i> , 2011 , 707, 121-7	6.6	13
117	Regularities of retention of benzoic acids on microdispersed detonation nanodiamonds in water-methanol mobile phases. <i>Russian Journal of Physical Chemistry A</i> , 2011 , 85, 1773-1777	0.7	19
116	Regularities of chromatographic retention of phenols on microdispersed sintered detonation nanodiamond in aqueous organic solvents. <i>Russian Journal of Physical Chemistry A</i> , 2010 , 84, 476-480	0.7	23
115	A new high-performance chelation ion chromatographic system for the direct determination of trace transition metals in fuel ethanol. <i>Analytical Methods</i> , 2010 , 2, 1565	3.2	13
114	Diamond-related materials as potential new media in separation science. <i>Analytical and Bioanalytical Chemistry</i> , 2010 , 396, 205-11	4.4	57
113	Capillary zone electrophoresis of graphene oxide and chemically converted graphene. <i>Journal of Chromatography A</i> , 2010 , 1217, 7593-7	4.5	44
112	Preparation, characterisation and modification of carbon-based monolithic rods for chromatographic applications. <i>Journal of Separation Science</i> , 2010 , 33, 1231-43	3.4	22
111	Micro-bore titanium housed polymer monoliths for reversed-phase liquid chromatography of small molecules. <i>Journal of Chromatography A</i> , 2010 , 1217, 2138-46	4.5	33
110	Non-invasive characterization of stationary phases in capillary flow systems using scanning capacitively coupled contactless conductivity detection (sC4D). <i>TrAC - Trends in Analytical Chemistry</i> , 2010 , 29, 870-884	14.6	26
109	Properties of microdispersed sintered nanodiamonds as a stationary phase for normal-phase high performance liquid chromatography. <i>Journal of Chromatography A</i> , 2010 , 1217, 498-505	4.5	35
108	On-column titration and investigation of metal complex formation for aminopolycarboxylate functionalised monoliths using scanning contactless conductivity detection. <i>Journal of Separation Science</i> , 2009 , 32, 2659-67	3.4	14
107	Zwitterionic ion-exchangers in ion chromatography: A review of recent developments. <i>Analytica Chimica Acta</i> , 2009 , 652, 3-21	6.6	70

106	Sorbent based on alumina modified with pyrocatechol violet. <i>Moscow University Chemistry Bulletin</i> , 2009 , 64, 83-86	0.5	
105	Sorbent based on aluminum oxide modified with Tiron. <i>Russian Journal of Physical Chemistry A</i> , 2009 , 83, 1208-1211	0.7	10
104	Paired emitter-detector diode detection with dual wavelength monitoring for enhanced sensitivity to transition metals in ion chromatography with post-column reaction. <i>Analyst, The</i> , 2009 , 134, 124-30	5	13
103	Accurate non-invasive determination of pKa of surface functionalised ion exchange monoliths using capacitively coupled contactless conductivity detection. <i>Analyst, The</i> , 2008 , 133, 874-6	5	13
102	Determination of aluminium using high performance chelation ion chromatography. <i>Journal of Separation Science</i> , 2008 , 31, 2231-8	3.4	10
101	Separation of inorganic anions on a high capacity porous polymeric monolithic column and application to direct determination of anions in seawater. <i>Journal of Separation Science</i> , 2008 , 31, 2598-604	3.4	26
100	Recent developments and emerging directions in ion chromatography. <i>Journal of Chromatography A</i> , 2008 , 1184, 456-73	4.5	157
99	Anion-exchange chromatography on short reversed-phase columns modified with amphoteric (N-dodecyl-N,N-dimethylammonio)alcanoates. <i>Journal of Chromatography A</i> , 2008 , 1178, 60-70	4.5	10
98	Simultaneous separation of inorganic anions and metal-citrate complexes on a zwitterionic stationary phase with on-column complexation. <i>Journal of Chromatography A</i> , 2008 , 1213, 62-9	4.5	8
97	Use of complexing reagents as additives to the eluent for optimization of separation selectivity in high-performance chelation ion chromatography. <i>Journal of Chromatography A</i> , 2008 , 1213, 45-9	4.5	16
96	Separation of transition metals on a poly-iminodiacetic acid grafted polymeric resin column with post-column reaction detection utilising a paired emitter-detector diode system. <i>Journal of Chromatography A</i> , 2008 , 1213, 31-6	4.5	25
95	High-performance liquid chromatography of amino acid enantiomers on eremomycin-modified silica. <i>Journal of Analytical Chemistry</i> , 2008 , 63, 57-64	1.1	22
94	Microwave and ultrasonic extraction of chlorophenoxy acids from soil and their determination by fluorescence polarization immunoassay. <i>Journal of Analytical Chemistry</i> , 2008 , 63, 127-134	1.1	8
93	Recent developments in the high-performance chelation ion chromatography of trace metals. <i>Journal of Separation Science</i> , 2007 , 30, 1773-93	3.4	39
92	Retention characteristics of aromatic hydrocarbons on silica and aminopropyl-modified monolithic columns in normal-phase HPLC. <i>Journal of Separation Science</i> , 2007 , 30, 2900-9	3.4	10
91	Capillary ion chromatography of inorganic anions on octadecyl silica monolith modified with an amphoteric surfactant. <i>Journal of Chromatography A</i> , 2007 , 1142, 185-93	4.5	41
90	Ion chromatographic investigation of the ion-exchange properties of microdisperse sintered nanodiamonds. <i>Journal of Chromatography A</i> , 2007 , 1155, 2-7	4.5	43
89	Ion-exchange properties of silica gel with covalently bonded histidine. <i>Journal of Analytical Chemistry</i> , 2007 , 62, 2-7	1.1	11

88	Stereoselective oxidation of sulfides in the presence of chiral peroxovanadium complexes. <i>Moscow University Chemistry Bulletin</i> , 2007 , 62, 162-166	0.5	
87	Microdispersed sintered nanodiamonds as a new stationary phase for high-performance liquid chromatography. <i>Analyst, The</i> , 2007 , 132, 403-5	5	44
86	Use of contactless conductivity detection for non-invasive characterisation of monolithic stationary-phase coatings for application in capillary ion chromatography. <i>Analyst, The</i> , 2007 , 132, 1238-45	5	36
85	Flow gradient liquid chromatography using a coated anion exchange microcolumn. <i>Journal of Separation Science</i> , 2006 , 29, 228-35	3.4	10
84	Flow Analysis Method Using Chelating CIM Monolithic Disks for Monitoring Dissolved Labile Copper in Environmental Water Samples. <i>Journal of Liquid Chromatography and Related Technologies</i> , 2006 , 29, 2201-2216	1.3	16
83	Single-Component Eluents for Quasi-Linear pH Gradients in Weak Cation Exchange Columns. <i>Journal of Liquid Chromatography and Related Technologies</i> , 2006 , 29, 485-496	1.3	6
82	Novel integrated paired emitter-detector diode (PEDD) as a miniaturized photometric detector in HPLC. <i>Analyst, The</i> , 2006 , 131, 938-43	5	29
81	Dual gradient LC method for the determination of pharmaceutical residues in environmental samples using a monolithic silica reversed phase column. <i>International Journal of Environmental Analytical Chemistry</i> , 2006 , 86, 487-504	1.8	15
80	On-line preconcentration of pharmaceutical residues from large volume water samples using short reversed-phase monolithic cartridges coupled to LC-UV-ESI-MS. <i>Talanta</i> , 2006 , 70, 1117-28	6.2	82
79	Sorbents with immobilized glycopeptide antibiotics for separating optical isomers by high-performance liquid chromatography. <i>Applied Biochemistry and Microbiology</i> , 2006 , 42, 536-544	1.1	16
78	Rapid on-line preconcentration and suppressed micro-bore ion chromatography of part per trillion levels of perchlorate in rainwater samples. <i>Analytica Chimica Acta</i> , 2006 , 567, 127-34	6.6	27
77	Low pressure ion chromatography with a low cost paired emitter-detector diode based detector for the determination of alkaline earth metals in water samples. <i>Analytica Chimica Acta</i> , 2006 , 577, 32-7	6.6	34
76	Double gradient ion chromatography using short monolithic columns modified with a long chained zwitterionic carboxybetaine surfactant. <i>Journal of Chromatography A</i> , 2006 , 1109, 111-9	4.5	27
75	New chiral stationary phase with macrocyclic glycopeptide antibiotic eremomycin chemically bonded to silica. <i>Journal of Chromatography A</i> , 2006 , 1108, 263-7	4.5	53
74	Protolytic properties of silica modified with maleinized linseed oil. <i>Russian Journal of Physical Chemistry A</i> , 2006 , 80, 479-482	0.7	
73	Significant viscosity dependent deviations from classical van Deemter theory in liquid chromatography with porous silica monolithic columns. <i>Analyst, The</i> , 2005 , 130, 828-30	5	5
72	Novel ion chromatographic stationary phases for the analysis of complex matrices. <i>Analyst, The</i> , 2005 , 130, 134-46	5	44
71	Double gradient ion chromatography on a short carboxybetaine coated monolithic anion exchanger. <i>Chemical Communications</i> , 2005 , 215-7	5.8	16

70	Solvent enhanced ion chromatography of alkaline earth and transition metal ions on porous monolithic silica. <i>Analytica Chimica Acta</i> , 2005 , 553, 27-35	6.6	21
69	Zwitterionic ion chromatography with carboxybetaine surfactant-coated particle packed and monolithic type columns. <i>Journal of Chromatography A</i> , 2005 , 1070, 71-8	4.5	23
68	Use of temperature programming to improve resolution of inorganic anions, haloacetic acids and oxyhalides in drinking water by suppressed ion chromatography. <i>Journal of Chromatography A</i> , 2005 , 1072, 207-15	4.5	29
67	Fast ion chromatography of inorganic anions and cations on a lysine bonded porous silica monolith. <i>Journal of Chromatography A</i> , 2005 , 1075, 167-75	4.5	49
66	New possibilities in ion chromatography using porous monolithic stationary-phase media. <i>TrAC - Trends in Analytical Chemistry</i> , 2005 , 24, 295-303	14.6	60
65	Thiooxamide chiral stationary phase for liquid chromatography. <i>Mendeleev Communications</i> , 2005 , 15, 143-145	1.9	1
64	The Use of Ultrashort Monolithic Porous Columns and an Eluent Flow Gradient for Chromatographic Separation of Polyaromatic Hydrocarbons. <i>Doklady Chemistry</i> , 2005 , 404, 178-181	0.8	2
63	Separation of homologues of organic compounds using the gradient of the eluent flow rate on a monolithic porous column. <i>Journal of Analytical Chemistry</i> , 2005 , 60, 349-354	1.1	10
62	ION EXCHANGE Chelation Ion Chromatography 2005 , 467-481		0
61	The use of a continuous flow gradient for the separation of inorganic anions on a monolithic disk. <i>Mendeleev Communications</i> , 2004 , 14, 121-122	1.9	14
60	Synthetic Approaches to Physiologically Active Polycyclic Compounds: IV. X-Ray Diffraction Study of Isomeric Amino Acid Derivatives of Adamantane. <i>Russian Journal of Organic Chemistry</i> , 2004 , 40, 502-505	0.7	3
59	Ion-Chromatography Performance of Poly(Aspartic) Acid Bonded Silica with Various Pore Sizes at Different Ionic Strengths and Column Temperatures. <i>Mikrochimica Acta</i> , 2004 , 146, 103-110	5.8	9
58	Poly(tetrafluoroethylene) separation capillaries for capillary electrophoresis. Properties and applications. <i>Journal of Chromatography A</i> , 2004 , 1039, 193-9	4.5	18
57	Ion exchange properties of monolithic and particle type iminodiacetic acid modified silica. <i>Journal of Separation Science</i> , 2004 , 27, 921-30	3.4	49
56	Low-pressure gradient micro-ion chromatography with ultra-short monolithic anion exchange column. <i>Analyst, The</i> , 2004 , 129, 700-1	5	29
55	Retention Characteristics of Lanthanide Ions on a Mixed Phosphonic Acid - Carboxylic Acid Cation Exchanger. <i>Australian Journal of Chemistry</i> , 2003 , 56, 201	1.2	9
54	Use of Microspherical Sulfonated Hypercrosslinked Polystyrene in Ion Chromatography. <i>Journal of Analytical Chemistry</i> , 2003 , 58, 467-472	1.1	3
53	Determination of Silicon, Phosphorous, Arsenic, and Germanium as Heteropoly Acids. <i>Journal of Analytical Chemistry</i> , 2003 , 58, 802-819	1.1	6

52	Application of linear model of sorption dynamics to the comparison of solid phase extraction systems of phenol. <i>Separation and Purification Technology</i> , 2003 , 33, 11-24	8.3	17
51	Studies on the separation of hydronium ion using surfactant-modified reversed-phase stationary phases and eluents containing an acidified electrolyte. <i>Journal of Chromatography A</i> , 2003 , 986, 263-73	4.5	5
50	Selectivity behaviour of a bonded phosphonate--carboxylate polymeric ion exchanger for metal cations with varying eluent compositions. <i>Journal of Chromatography A</i> , 2003 , 997, 3-11	4.5	26
49	Iminodiacetic acid functionalised monolithic silica chelating ion exchanger for rapid determination of alkaline earth metal ions in high ionic strength samples. <i>Analyst, The</i> , 2003 , 128, 417-20	5	35
48	Dynamic chelation ion chromatography of transition and heavy metal ions using a mobile phase containing 4-chlorodipicolinic acid. <i>Journal of Chromatography A</i> , 2002 , 953, 141-50	4.5	12
47	High-Performance Chelation Chromatography of Metal Ions on Sorbents with Grafted Iminodiacetic Acid. <i>Russian Journal of Coordination Chemistry/Koordinatsionnaya Khimiya</i> , 2002 , 28, 726-735	1.6	17
46	Zwitterion-exchange properties of sulfonated hypercrosslinked polystyrene. <i>Mendeleev Communications</i> , 2002 , 12, 155-156	1.9	2
45	Simultaneous separation and detection of anions and cations in ion chromatography. <i>TrAC - Trends in Analytical Chemistry</i> , 2001 , 20, 311-319	14.6	32
44	Novel stationary phase with regulated anion-exchange capacity. <i>Journal of Chromatography A</i> , 2001 , 920, 87-93	4.5	24
43	Ion-exchange properties of hypercrosslinked polystyrene impregnated with methyl orange. <i>Journal of Chromatography A</i> , 2001 , 920, 79-85	4.5	25
42	Use of Sulfonated Cation-Exchange Resin Based on Hypercrosslinked Polystyrene for the Separation of Organic Acids. <i>Journal of Analytical Chemistry</i> , 2001 , 56, 715-720	1.1	13
41	Use of Hypercrosslinked Polystyrene for the Determination of Pyrocatechol, Resorcinol, and Hydroquinone by Reversed-Phase HPLC with Dynamic On-line Preconcentration. <i>Journal of Analytical Chemistry</i> , 2001 , 56, 934-939	1.1	36
40	Simultaneous ion chromatographic separation of anions and cations on poly(aspartic acid) functionalized silica. <i>Analyst, The</i> , 2001 , 126, 2119-23	5	23
39	Zwitterionic Ion-Exchangers in Liquid Chromatography.. <i>Analytical Sciences</i> , 2000 , 16, 565-574	1.7	73
38	Determination of beryllium in a stream sediment by high-performance chelation ion chromatography. <i>Journal of Chromatography A</i> , 2000 , 876, 127-33	4.5	24
37	Application of neutral hydrophobic hypercrosslinked polystyrene to the separation of inorganic anions by ion chromatography. <i>Journal of Chromatography A</i> , 2000 , 884, 41-51	4.5	41
36	Phenylaminopropyl silica--a new specific stationary phase for high-performance liquid chromatography of phenols. <i>Journal of Chromatography A</i> , 2000 , 898, 23-34	4.5	34
35	Intramolecular versus intermolecular mechanism of metallotropic rearrangements of chiral chromium tricarbonyl complexes of substituted naphthalenes and other polyaromatic compounds investigated by chiral HPLC of its racemic mixtures. <i>Journal of Organometallic Chemistry</i> , 2000 , 597, 42-47	2.3	30

34	Determination of uranium in environmental matrices by chelation ion chromatography using a high performance substrate dynamically modified with 2,6-pyridinedicarboxylic acid. <i>Chromatographia</i> , 2000 , 51, 695-700	2.1	24
33	Simultaneous determination of dihydroxybenzenes, aminophenols and phenylenediamines in hair dyes by high-performance liquid chromatography on hypercross-linked polystyrene. <i>Analyst, The</i> , 2000 , 125, 1249-54	5	57
32	The ion chromatographic separation of high valence metal cations using a neutral polystyrene resin dynamically modified with dipicolinic acid. <i>Analyst, The</i> , 2000 , 125, 2157-9	5	15
31	Investigation of the properties of hypercrosslinked polystyrene as a stationary phase for high-performance liquid chromatography. <i>Chromatographia</i> , 1999 , 50, 611-620	2.1	85
30	Aminophosphonate-Functionalized Silica: A Versatile Chromatographic Stationary Phase for High-Performance Chelation Ion Chromatography. <i>Microchemical Journal</i> , 1999 , 62, 58-69	4.8	33
29	Investigation of solute-wall interactions in separation of uranium(vi) and lanthanides by capillary electrophoresis using on-capillary complexation with arsenazo iii. <i>Journal of Separation Science</i> , 1999 , 11, 1-9		28
28	Anion-exchange ability of neutral hydrophobic hypercrosslinked polystyrene. <i>Analytical Communications</i> , 1999 , 36, 199-201		13
27	Chelation ion chromatography of metal ions using an ODS reversed-phase column and a mobile phase containing methylthymol blue. <i>Analytica Chimica Acta</i> , 1998 , 375, 117-126	6.6	10
26	Effect of temperature on retention of alkali and alkaline-earth metal ions on some aminocarboxylic acid functionalised silica based ion exchangers. <i>Journal of Chromatography A</i> , 1998 , 826, 15-23	4.5	29
25	Electrophoretic study of cationic cobalt(III) complexes with [N2O] and [N2O2] Schiff base ligands. <i>Inorganica Chimica Acta</i> , 1998 , 280, 295-301	2.7	5
24	A novel stationary phase for the high performance liquid chromatographic separation and determination of phenols. <i>Mendeleev Communications</i> , 1998 , 8, 24-26	1.9	9
23	Separation of uranium(VI) and lanthanides by capillary electrophoresis using on-capillary complexation with arsenazo III. <i>Journal of Chromatography A</i> , 1998 , 803, 279-290	4.5	72
22	Isocratic separation of lanthanides and yttrium by high-performance chelation ion chromatography on iminodiacetic acid bonded to silica. <i>Journal of Chromatography A</i> , 1998 , 804, 223-231	4.5	64
21	Synthesis and ion-exchange properties of silica chemically modified with aminophosphonic acid. <i>Journal of Chromatography A</i> , 1998 , 813, 47-53	4.5	23
20	Modeling of internal pH-gradients in chromatofocusing. <i>Fresenius Journal of Analytical Chemistry</i> , 1998 , 361, 274-275		1
19	Separation of metal ions using a polymeric reversed-phase column and a Methylthymol Blue containing mobile phase. <i>Analytical Communications</i> , 1998 , 35, 17-20		13
18	First Isocratic Separation of Fourteen Lanthanides and Yttrium by High-performance Chelation Ion Chromatography. <i>Analytical Communications</i> , 1997 , 34, 7-8		24
17	Ion-exchange properties of glutamic acid-bonded silica. <i>Journal of Chromatography A</i> , 1997 , 769, 179-188.	4.5	32

16	Single-column method of chelation ion chromatography for the analysis of trace metals in complex samples. <i>Journal of Chromatography A</i> , 1997 , 770, 129-135	4.5	46
15	High-performance chelation ion chromatography. <i>Journal of Chromatography A</i> , 1997 , 789, 413-435	4.5	90
14	Selectivity of chemically bonded zwitterion-exchange stationary phases in ion chromatography. <i>Journal of Chromatography A</i> , 1995 , 706, 59-68	4.5	40
13	Peculiar reversed-phase HPLC behaviour of cationic alkylcobalt(III) complexes holding a tridentate Schiff base ligand. <i>Inorganica Chimica Acta</i> , 1995 , 240, 665-668	2.7	4
12	Separation of metal ions by reversed-phase liquid chromatography using on-column complexation with 2-pyridinecarboxylic acid. <i>Analytica Chimica Acta</i> , 1994 , 285, 161-168	6.6	13
11	Detection of transition metals during their separation in an isoconductive pH gradient. <i>Journal of Chromatography A</i> , 1994 , 671, 95-99	4.5	8
10	Effect of mobile phase composition on the enantioselectivity of chromatographic separation on a quinine-bonded silica stationary phase. <i>Journal of Chromatography A</i> , 1994 , 667, 19-28	4.5	12
9	The Applicability of Chromatofocusing to the Concentration and Separation of Transition Metals with Tetraethylenepentamine-bonded Silica. <i>Mendeleev Communications</i> , 1994 , 4, 174-176	1.9	3
8	Dipicolinic acid as eluent for the high-performance liquid chromatographic determination of transition metals using iminodiacetic acid-bonded silica. <i>Analyst, The</i> , 1994 , 119, 1329	5	13
7	Use of high-efficiency liquid-chromatography in determining the metal content of waste-water. <i>Fibre Chemistry</i> , 1993 , 24, 422-424	0.6	0
6	Application of amino acid-bonded silicas as ion exchangers for the separation of anions by single-column ion chromatography. <i>Journal of Chromatography A</i> , 1992 , 605, 199-204	4.5	27
5	Silica-bonded L-hydroxyproline and its application to the separation of inorganic anions. <i>Journal of High Resolution Chromatography</i> , 1991 , 14, 767-768		13
4	Sorption of noble-metal ions on silica with chemically bonded nitrogen-containing ligands. <i>Talanta</i> , 1991 , 38, 267-74	6.2	45
3	Lateralization of opioid receptors in turtle visual cortex. <i>Brain Research</i> , 1989 , 480, 268-76	3.7	12
2	Mechanism of haptotropic rearrangements in the chromium tricarbonyl complexes of naphthalene and its analogs. <i>Bulletin of the Academy of Sciences of the USSR Division of Chemical Science</i> , 1988 , 37, 357-360		
1	Monolithic Stationary Phases for Fast Ion Chromatography 207-230		