Miroslav Macka

List of Publications by Year in Descending Order

195 papers	5,186 citations	37 h-index	56 g-index
202 ext. papers	5,501 ext. citations	5.2 avg, IF	5.59 L-index

#	Paper	IF	Citations
195	Detection of pesticides in food products using paper-based devices by UV-induced fluorescence spectroscopy combined with molecularly imprinted polymers.. *Food Chemistry*, **2022**, 380, 132141	8.5	2
194	UV-light-actuated in-situ preparation of paper@ZnCd quantum dots for paper-based enzymatic nanoreactors. *Chemical Engineering Journal*, **2022**, 428, 132508	14.7	2
193	Distance-based detection in analytical flow devices: From gas detection tubes to microfluidic chips and microfluidic paper-based analytical devices. *TrAC - Trends in Analytical Chemistry*, **2022**, 150, 116581	14.6	0
192	UV-induced Zn:Cd/S quantum dots in-situ formed in the presence of thiols for sensitive and selective fluorescence detection of thiols. *Scientific Reports*, **2021**, 11, 13806	4.9	2
191	Metallothionein dimerization evidenced by QD-based Förster resonance energy transfer and capillary electrophoresis. *International Journal of Biological Macromolecules*, **2021**, 170, 53-60	7.9	
190	Paperfluidic devices with a selective molecularly imprinted polymer surface for instrumentation-free distance-based detection of protein biomarkers. *Sensors and Actuators B: Chemical*, **2021**, 341, 129999	8.5	5
189	Continuous and real-time indoor and outdoor methane sensing with portable optical sensor using rapidly pulsed IR LEDs. *Talanta*, **2020**, 218, 121144	6.2	7
188	Distance-based paper device using polydiacetylene liposome as a chromogenic substance for rapid and in-field analysis of quaternary ammonium compounds. *Analytical and Bioanalytical Chemistry*, **2020**, 412, 3221-3230	4.4	3
187	Radiometric characterisation of light sources used in analytical chemistry - A review. *Analytica Chimica Acta*, **2020**, 1123, 113-127	6.6	3
186	Miniature and fully portable gradient capillary liquid chromatograph. *Analytica Chimica Acta*, **2020**, 1101, 199-210	6.6	24
185	One step multi-material 3D printing for the fabrication of a photometric detector flow cell. *Analytica Chimica Acta*, **2020**, 1097, 127-134	6.6	20
184	Paper-based sol-gel thin films immobilized cytochrome P450 for enzyme activity measurement. *Analytica Chimica Acta*, **2020**, 1098, 86-93	6.6	5
183	Miniature Multiwavelength Deep UV-LED-Based Absorption Detection System for Capillary LC. *Analytical Chemistry*, **2020**, 92, 13688-13693	7.8	7
182	Miniaturized LC in Molecular Omics. *Analytical Chemistry*, **2020**, 92, 11485-11497	7.8	14
181	Ion-Exchange Based Immobilization of Chromogenic Reagents on Microfluidic Paper Analytical Devices. *Analytical Chemistry*, **2019**, 91, 8756-8761	7.8	12
180	Electrochemical characterisation of nanoparticulate zirconium dioxide-on-gold electrode for electrochemical detection in flow-based analytical systems. *Electrochimica Acta*, **2019**, 318, 61-68	6.7	5
179	Portable device for continuous sensing with rapidly pulsed LEDs Part 1: Rapid on-the-fly processing of large data streams using an open source microcontroller with field programmable gate array. *Measurement: Journal of the International Measurement Confederation*, **2019**, 146, 749-757	4.6	1

178	Instrument-free argentometric determination of chloride via trapezoidal distance-based microfluidic paper devices. *Analytica Chimica Acta*, **2019**, 1063, 1-8	6.6	30
177	Capillary gap flow cell as capillary-end electrochemical detector in flow-based analysis. *Electrochimica Acta*, **2019**, 303, 85-93	6.7	4
176	Trends in analytical separations of magnetic (nano)particles. *TrAC - Trends in Analytical Chemistry*, **2019**, 114, 89-97	14.6	22
175	Fast pulsed amperometric waveform for miniaturised flow-through electrochemical detection: Application in monitoring graphene oxide reduction. *Electrochimica Acta*, **2019**, 328, 135087	6.7	1
174	High-throughput deposition of chemical reagents via pen-plotting technique for microfluidic paper-based analytical devices. *Analytica Chimica Acta*, **2019**, 1047, 115-123	6.6	20
173	Prospects of pulsed amperometric detection in flow-based analytical systems - A review. *Analytica Chimica Acta*, **2019**, 1052, 10-26	6.6	20
172	Radiometric analysis of UV to near infrared LEDs for optical sensing and radiometric measurements in photochemical systems. *Sensors and Actuators B: Chemical*, **2018**, 262, 171-179	8.5	12
171	Separation of superparamagnetic magnetite nanoparticles by capillary zone electrophoresis using non-complexing and complexing electrolyte anions and tetramethylammonium as dispersing additive. *Electrophoresis*, **2018**, 39, 1429-1436	3.6	8
170	Short-sweep capillary electrophoresis with a selective zinc fluorescence imaging reagent FluoZin-3 for determination of free and metalothionein-2a-bound Zn ions. *Analytica Chimica Acta*, **2018**, 1017, 41-47	6.6	5
169	Miniaturised electrically actuated high pressure injection valve for portable capillary liquid chromatography. *Talanta*, **2018**, 180, 32-35	6.2	12
168	Chemometric Approach to the Calibration of Light Emitting Diode Based Optical Gas Sensors Using High-Resolution Transmission Molecular Absorption Data. *Analytical Chemistry*, **2018**, 90, 5973-5976	7.8	4
167	Miniaturized capillary ion chromatograph with UV light-emitting diode based indirect absorbance detection for anion analysis in potable and environmental waters. *Journal of Separation Science*, **2018**, 41, 3224-3231	3.4	16
166	Comparison of cation-exchange capillary columns used for ion chromatographic separation of biogenic amines. *Journal of Chromatography A*, **2018**, 1571, 193-200	4.5	8
165	High power deep UV-LEDs for analytical optical instrumentation. *Sensors and Actuators B: Chemical*, **2018**, 255, 1238-1243	8.5	14
164	High sensitivity deep-UV LED-based z-cell photometric detector for capillary liquid chromatography. *Analytica Chimica Acta*, **2018**, 1032, 197-202	6.6	13
163	Nanotechnology-based analytical approaches for detection of viruses. *Analytical Methods*, **2017**, 9, 2375-2391	3.2	28
162	3D printed LED based on-capillary detector housing with integrated slit. *Analytica Chimica Acta*, **2017**, 965, 131-136	6.6	34
161	Isotachophoretic Fluorescence in Situ Hybridization of Intact Bacterial Cells. *Analytical Chemistry*, **2017**, 89, 6513-6520	7.8	12

160	Microfluidic high performance liquid chromatography-chip hyphenation to inductively coupled plasma-mass spectrometry. *Journal of Chromatography A*, **2017**, 1497, 64-69	4.5	20
159	Miniaturization and microfluidics **2017**, 619-636		2
158	Geometrical Alignment of Multiple Fabrication Steps for Rapid Prototyping of Microfluidic Paper-Based Analytical Devices. *Analytical Chemistry*, **2017**, 89, 11918-11923	7.8	23
157	A novel highly flexible, simple, rapid and low-cost fabrication tool for paper-based microfluidic devices (ꟼADs) using technical drawing pens and in-house formulated aqueous inks. *Analytica Chimica Acta*, **2016**, 919, 70-77	6.6	53
156	Performance of a New 235 nm UV-LED-Based On-Capillary Photometric Detector. *Analytical Chemistry*, **2016**, 88, 12116-12121	7.8	41
155	Micellar electrokinetic chromatography of organic and peroxide-based explosives. *Analytica Chimica Acta*, **2015**, 876, 91-7	6.6	4
154	Counter-pressure-assisted ITP with electrokinetic injection under field-amplified conditions for bacterial analysis. *Analytical and Bioanalytical Chemistry*, **2015**, 407, 6995-7002	4.4	6
153	Miniaturised medium pressure capillary liquid chromatography system with flexible open platform design using off-the-shelf microfluidic components. *Analytica Chimica Acta*, **2015**, 896, 166-76	6.6	35
152	Flow injection analysis of organic peroxide explosives using acid degradation and chemiluminescent detection of released hydrogen peroxide. *Talanta*, **2015**, 143, 191-197	6.2	12
151	Fibre coupled micro-light emitting diode array light source with integrated band-pass filter for fluorescence detection in miniaturised analytical systems. *Analytica Chimica Acta*, **2015**, 871, 85-92	6.6	5
150	Surface-area expansion with monolithic open tubular columns. *TrAC - Trends in Analytical Chemistry*, **2015**, 67, 16-25	14.6	38
149	Light-emitting diodes for analytical chemistry. *Annual Review of Analytical Chemistry*, **2014**, 7, 183-207	12.5	87
148	Molecular imprinted polymeric porous layers in open tubular capillaries for chiral separations. *Journal of Chromatography A*, **2014**, 1354, 85-91	4.5	60
147	On-line simultaneous and rapid separation of anions and cations from a single sample using dual-capillary sequential injection-capillary electrophoresis. *Analytica Chimica Acta*, **2013**, 781, 80-7	6.6	53
146	Analytical isotachophoresis of lactate in human serum using dry film photoresist microfluidic chips compatible with a commercially available field-deployable instrument platform. *Analytica Chimica Acta*, **2013**, 803, 135-42	6.6	14
145	Porous layer open tubular monolith capillary column: switching-off the reaction kinetics as the governing factor in their preparation by using an immiscible liquid-controlled polymerization. *RSC Advances*, **2013**, 3, 24927	3.7	4
144	Exploring chip-capillary electrophoresis-laser-induced fluorescence field-deployable platform flexibility: separations of fluorescent dyes by chip-based non-aqueous capillary electrophoresis. *Journal of Chromatography A*, **2013**, 1286, 216-21	4.5	23
143	Microfluidic isotachophoresis: a review. *Electrophoresis*, **2013**, 34, 1493-509	3.6	62

142	Rapid and sensitive microbial analysis by capillary isotachophoresis with continuous electrokinetic injection under field amplified conditions. *Electrophoresis*, **2013**, 34, 1657-62	3.6	19
141	Potential of capillary electrophoresis (CE) and chip-CE with dual detection (capacitively-coupled contactless conductivity detection (C4D) and fluorescence detection) for monitoring of nicotine and cotinine derivatization. *Analytical Sciences*, **2013**, 29, 339-44	1.7	11
140	Isotachophoresis on a chip with indirect fluorescence detection as a field deployable system for analysis of carboxylic acids. *Electrophoresis*, **2012**, 33, 3166-72	3.6	12
139	Inorganic monoliths in separation science: a review. *Analytica Chimica Acta*, **2012**, 750, 28-47	6.6	49
138	Separation of carboxylic acids in human serum by isotachophoresis using a commercial field-deployable analytical platform combined with in-house glass microfluidic chips. *Analytica Chimica Acta*, **2012**, 755, 115-20	6.6	14
137	Rapid separations of nile blue stained microorganisms as cationic charged species by chip-CE with LIF. *Electrophoresis*, **2012**, 33, 1421-6	3.6	15
136	Polymerisation and surface modification of methacrylate monoliths in polyimide channels and polyimide coated capillaries using 660 nm light emitting diodes. *Journal of Chromatography A*, **2011**, 1218, 2954-62	4.5	21
135	Monolithic porous layer open tubular (monoPLOT) columns for low pressure liquid chromatography of proteins. *Analytical Methods*, **2011**, 3, 537-543	3.2	25
134	Versatile capillary column temperature control using a thermoelectric array based platform. *Analytical Chemistry*, **2011**, 83, 4307-13	7.8	24
133	Numerical model for light propagation and light intensity distribution inside coated fused silica capillaries. *Optics and Lasers in Engineering*, **2011**, 49, 924-931	4.6	3
132	Incorporation of Acrylate Based Spiropyran Monoliths in Micro-Fluidic Devices for Photo-Controlled Electroosmotic Flow. *Advances in Science and Technology*, **2010**, 76, 100-105	0.1	2
131	The use of scanning contactless conductivity detection for the characterisation of stationary phases in micro-fluidic chips. *Lab on A Chip*, **2010**, 10, 1777-80	7.2	12
130	Combined contactless conductometric, photometric, and fluorimetric single point detector for capillary separation methods. *Analytical Chemistry*, **2010**, 82, 129-35	7.8	51
129	Evanescent wave-initiated photopolymerisation as a new way to create monolithic open-tubular capillary columns: use as enzymatic microreactor for on-line protein digestion. *Analyst, The*, **2010**, 135, 477-81	5	29
128	Photoreversible ion-binding using spiropyran modified silica microbeads. *International Journal of Nanomanufacturing*, **2010**, 5, 38	0.7	7
127	White LEDs as broad spectrum light sources for spectrophotometry: demonstration in the visible spectrum range in a diode-array spectrophotometric detector. *Electrophoresis*, **2010**, 31, 3737-44	3.6	9
126	Chip-based CE for rapid separation of 8-aminopyrene-1,3,6-trisulfonic acid (APTS) derivatized glycans. *Electrophoresis*, **2010**, 31, 3783-6	3.6	35
125	Visible light initiated polymerization of styrenic monolithic stationary phases using 470 nm light emitting diode arrays. *Journal of Separation Science*, **2010**, 33, 61-6	3.4	37

124	Portable capillary-based (non-chip) capillary electrophoresis. *TrAC - Trends in Analytical Chemistry*, **2010**, 29, 339-353	14.6	79
123	Photochromic spiropyran monolithic polymers: Molecular photo-controllable electroosmotic pumps for micro-fluidic devices. *Sensors and Actuators B: Chemical*, **2010**, 148, 569-576	8.5	12
122	Photoswitchable Stationary Phase Based on Packed Spiropyran Functionalized Silica Microbeads. *E-Journal of Surface Science and Nanotechnology*, **2009**, 7, 649-652	0.7	4
121	Determination of the surface heat-transfer coefficient in CE. *Electrophoresis*, **2009**, 30, 910-20	3.6	8
120	Recent significant developments in detection and method development for the determination of inorganic ions by CE. *Electrophoresis*, **2009**, 30 Suppl 1, S53-67	3.6	27
119	Spiropyran modified micro-fluidic chip channels as photonically controlled self-indicating system for metal ion accumulation and release. *Sensors and Actuators B: Chemical*, **2009**, 140, 295-303	8.5	36
118	Development of microfluidic chips for heterogeneous receptor-ligand interaction studies. *Analytical Chemistry*, **2009**, 81, 5095-8	7.8	14
117	Deep-UV-LEDs in photometric detection: a 255 nm LED on-capillary detector in capillary electrophoresis. *Analyst, The*, **2009**, 134, 2394-6	5	32
116	UV-absorbance detector for HPLC based on a light-emitting diode. *Analyst, The*, **2008**, 133, 465-9	5	26
115	Photoinitiated polymerisation of monolithic stationary phases in polyimide coated capillaries using visible region LEDs. *Chemical Communications*, **2008**, 6504-6	5.8	36
114	Using coupled monolithic rods for ultra-high peak capacity LC and LC-MS under normal LC operating pressures. *Analyst, The*, **2008**, 133, 180-3	5	9
113	Polystyrene bead-based system for optical sensing using spiropyran photoswitches. *Journal of Materials Chemistry*, **2008**, 18, 5063		51
112	Development of a contactless conductivity detector cell for 1.6 mm O.D. (1/16th inch) HPLC tubing and micro-bore columns with on-column detection. *Analyst, The*, **2008**, 133, 1104-10	5	15
111	CE study of neuroprotective humanin peptide and its derivatives: interactions with phosphate, sulphate, alkylsulphonates and sulphated-beta-CD. *Electrophoresis*, **2008**, 29, 665-71	3.6	2
110	UV-LED photopolymerised monoliths. *Analyst, The*, **2008**, 133, 864-6	5	33
109	Micro-flow injection analysis system: on-chip sample preconcentration, injection and delivery using coupled monolithic electroosmotic pumps. *Lab on A Chip*, **2007**, 7, 1597-9	7.2	21
108	Robust monolithic silica-based on-chip electro-osmotic micro-pump. *Analyst, The*, **2007**, 132, 417-24	5	28
107	Evaluation of monolithic and sub 2 microm particle packed columns for the rapid screening for illicit drugs--application to the determination of drug contamination on Irish euro banknotes. *Analyst, The*, **2007**, 132, 208-17	5	26

106	New Fully Portable Instrument for the Versatile Determination of Cations and Anions by Capillary Electrophoresis with Contactless Conductivity Detection. *Electroanalysis*, **2007**, 19, 2059-2065	3	100
105	Separation of Nile Blue-labelled fatty acids by CE with absorbance detection using a red light-emitting diode. *Electrophoresis*, **2007**, 28, 1252-8	3.6	22
104	Light-emitting diode-compatible probes for indirect detection of anions in CE. *Electrophoresis*, **2007** , 28, 3453-60	3.6	6
103	Fluorinated ethylenepropylene copolymer as a potential capillary material in CE. *Electrophoresis*, **2007**, 28, 3477-84	3.6	5
102	Reliable electrophoretic mobilities free from Joule heating effects using CE. *Electrophoresis*, **2007**, 28, 3759-66	3.6	21
101	Beads-based system for optical sensing using spiropyran photoswitches. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society*, **2007**, 2007, 4096-7		1
100	Identification of inorganic improvised explosive devices by analysis of postblast residues using portable capillary electrophoresis instrumentation and indirect photometric detection with a light-emitting diode. *Analytical Chemistry*, **2007**, 79, 7005-13	7.8	113
99	Use of contactless conductivity detection for non-invasive characterisation of monolithic stationary-phase coatings for application in capillary ion chromatography. *Analyst, The*, **2007**, 132, 1238-45	5	36
98	Comparison of Different Contactless Conductivity Detectors for the Determination of Small Inorganic Ions by Capillary Electrophoresis. *Electroanalysis*, **2006**, 18, 1289-1296	3	30
97	Variation of zeta-potential with temperature in fused-silica capillaries used for capillary electrophoresis. *Electrophoresis*, **2006**, 27, 672-6	3.6	36
96	Preparation and characterisation of dual-layer latex-coated columns for open-tubular capillary electrochromatographic preconcentration of cations combined in-line with their separation by capillary electrophoresis. *Electrophoresis*, **2006**, 27, 1069-77	3.6	37
95	Sensitive determination of carbohydrates labelled with p-nitroaniline by capillary electrophoresis with photometric detection using a 406 nm light-emitting diode. *Electrophoresis*, **2006**, 27, 4039-46	3.6	18
94	Simultaneous separation of nitrofuran antibiotics and their metabolites by using micellar electrokinetic capillary chromatography. *Electrophoresis*, **2006**, 27, 4069-77	3.6	24
93	Evaluation of capillary ion exchange stationary phase coating distribution and stability using radial capillary column contactless conductivity detection. *Analyst, The*, **2006**, 131, 886-8	5	32
92	Temperature profiles and heat dissipation in capillary electrophoresis. *Analytical Chemistry*, **2006**, 78, 2684-93	7.8	30
91	Non-aqueous capillary electrophoresis with red light emitting diode absorbance detection for the analysis of basic dyes. *Analytica Chimica Acta*, **2006**, 580, 188-93	6.6	34
90	On-line preconcentration of organic anions in capillary electrophoresis by solid-phase extraction using latex-coated monolithic stationary phases. *Journal of Chromatography A*, **2006**, 1106, 43-51	4.5	46
89	Preparation and characterisation of anion-exchange latex-coated silica monoliths for capillary electrochromatography. *Journal of Chromatography A*, **2006**, 1109, 10-8	4.5	70

88	Isoelectric buffers for capillary electrophoresis. 2. Bismorpholine derivative of a carboxylic acid as a low molecular weight isoelectric buffer. *Analytical Chemistry*, **2005**, 77, 120-5	7.8	13
87	Latex-coated polymeric monolithic ion-exchange stationary phases. 1. Anion-exchange capillary electrochromatography and in-line sample preconcentration in capillary electrophoresis. *Analytical Chemistry*, **2005**, 77, 407-16	7.8	113
86	Enhancement of Separation Capability of Inorganic Ions by Capillary Electrochromatography. *Bunseki Kagaku*, **2005**, 54, 107-120	0.2	2
85	Contactless conductivity detection of synthetic polymers in non-aqueous size-exclusion electrokinetic chromatography. *Journal of Chromatography A*, **2005**, 1068, 183-7	4.5	14
84	Internal electrolyte temperatures for polymer and fused-silica capillaries used in capillary electrophoresis. *Electrophoresis*, **2005**, 26, 4333-44	3.6	14
83	Rapid Capillary Electrophoretic Method for Trace Chromium Speciation Using a Zwitterionic Isoelectric Polymer Coated Capillary and Photodiode Array Detection. *Analytical Letters*, **2004**, 37, 2771-2787	2.2	3
82	Use of coupled open-tubular capillaries for in-line ion-exchange preconcentration of anions by capillary electrochromatography with elution by a transient isotachophoretic gradient. *Journal of Chromatography A*, **2004**, 1039, 187-92	4.5	27
81	Poly(tetrafluoroethylene) separation capillaries for capillary electrophoresis. Properties and applications. *Journal of Chromatography A*, **2004**, 1039, 193-9	4.5	18
80	Development of a fully buffered molybdate electrolyte for capillary electrophoresis with indirect detection and its use for analysis of anions in Bayer liquor. *Electrophoresis*, **2004**, 25, 437-43	3.6	20
79	Optimisation of selectivity in the separation of aromatic amino acid enantiomers using sulfated beta-cyclodextrin and dextran sulfate as pseudostationary phases. *Electrophoresis*, **2004**, 25, 270-6	3.6	16
78	Design and performance of a light-emitting diode detector compatible with a commercial capillary electrophoresis instrument. *Electrophoresis*, **2004**, 25, 3145-52	3.6	45
77	Determination of inorganic ions using microfluidic devices. *Electrophoresis*, **2004**, 25, 3602-24	3.6	39
76	Conductivity detection for conventional and miniaturised capillary electrophoresis systems. *Electrophoresis*, **2004**, 25, 4032-57	3.6	116
75	Selectivity control in the separation of aromatic amino acid enantiomers with sulphated beta-cyclodextrin. *Journal of Chromatography A*, **2004**, 1031, 179-86	4.5	8
74	Speciation of arsenic and selenium by capillary electrophoresis. *Journal of Chromatography A*, **2004**, 1039, 201-8	4.5	32
73	Simultaneous separation of anions and cations by capillary electrophoresis with high magnitude, reversed electroosmotic flow. *Journal of Chromatography A*, **2004**, 1050, 217-222	4.5	30
72	Simultaneous separation of anions and cations by capillary electrophoresis with high magnitude, reversed electroosmotic flow. *Journal of Chromatography A*, **2004**, 1050, 217-22	4.5	
71	Biopolymer-coated fused silica capillaries for high magnitude cathodic or anodic electro-osmotic flows in capillary electrophoresis. *Chromatographia*, **2003**, 57, S187-S193	2.1	6

70	Capillary electrophoresis determinations of trace concentrations of inorganic ions in large excess of chloride: soft modelling using artificial neural networks for optimisation of electrolyte composition. *Electrophoresis*, **2003**, 24, 2252-8	3.6	7
69	Enhancement of detection sensitivity for indirect photometric detection of anions and cations in capillary electrophoresis. *Electrophoresis*, **2003**, 24, 2150-67	3.6	63
68	Trace determination of arsenic species by capillary electrophoresis with direct UV detection using sensitivity enhancement by counter- or co-electroosmotic flow stacking and a high-sensitivity cell. *Electrophoresis*, **2003**, 24, 2045-53	3.6	30
67	Miniaturized movable contactless conductivity detection cell for capillary electrophoresis. *Electrophoresis*, **2003**, 24, 2144-9	3.6	45
66	Sensitive indirect photometric detection of inorganic and small organic anions by capillary electrophoresis using Orange G as a probe ion. *Electrophoresis*, **2003**, 24, 557-66	3.6	25
65	Separation of opiate alkaloids by electrokinetic chromatography with sulfated-cyclodextrin as a pseudo-stationary phase. *Journal of Chromatography A*, **2003**, 985, 493-501	4.5	18
64	Highly sensitive indirect photometric detection of cations by capillary electrophoresis with the cationic dye chrysoidine. *Journal of Chromatography A*, **2003**, 997, 87-94	4.5	24
63	Mixed-mode electrokinetic chromatography of aromatic bases with two pseudo-stationary phases and pH control. *Journal of Chromatography A*, **2003**, 997, 207-18	4.5	10
62	Optimisation of probe concentration in indirect photometric detection in capillary electrophoresis using highly absorbing dyes. *Electrophoresis*, **2002**, 23, 43-8	3.6	14
61	Measurement of thiol-containing amino acids and phytochelatin (PC2) via capillary electrophoresis with laser-induced fluorescence detection. *Electrophoresis*, **2002**, 23, 81-7	3.6	27
60	Capillary electrophoretic study of interactions of metal ions with crown ethers, a sulfated beta-cyclodextrin, and zwitterionic buffers present as additives in the background electrolyte. *Electrophoresis*, **2002**, 23, 1796-802	3.6	29
59	Modelling, optimisation and control of selectivity in the separation of aromatic bases by electrokinetic chromatography using a neutral cyclodextrin as a pseudostationary phase. *Electrophoresis*, **2002**, 23, 1844-52	3.6	8
58	Separation of organic and inorganic arsenic species by capillary electrophoresis using direct spectrophotometric detection. *Electrophoresis*, **2002**, 23, 2430-8	3.6	33
57	Modelling and optimization of the electrokinetic chromatographic separation of mixtures of organic anions and cations using poly(diallydimethyl- ammonium chloride) and hexanesulfonate as mixed pseudostationary phases. *Electrophoresis*, **2002**, 23, 2821-32	3.6	12
56	Separation and determination of vanadium in fertiliser by capillary electrophoresis with a light-emitting diode detector. *Analytical and Bioanalytical Chemistry*, **2002**, 374, 1082-5	4.4	30
55	The use of the Box-Behnken experimental design in the optimisation and robustness testing of a capillary electrophoresis method for the analysis of ethambutol hydrochloride in a pharmaceutical formulation. *Journal of Pharmaceutical and Biomedical Analysis*, **2002**, 27, 995-1007	3.5	120
54	Electrokinetic chromatography utilizing two pseudostationary phases providing ion-exchange and hydrophobic interactions. *Analytical Chemistry*, **2002**, 74, 1241-8	7.8	12
53	On-column ion-exchange preconcentration of inorganic anions in open tubular capillary electrochromatography with elution using transient-isotachophoretic gradients. 3. Implementation and method development. *Analytical Chemistry*, **2002**, 74, 2112-8	7.8	95

52	Performance of a simple UV LED light source in the capillary electrophoresis of inorganic anions with indirect detection using a chromate background electrolyte. *Analyst, The*, **2002**, 127, 1564-7	5	52
51	Simultaneous separation of inorganic anions and cations using capillary electrophoresis with a movable contactless conductivity detector. *Analyst, The*, **2002**, 127, 715-8	5	62
50	Modification of the electroosmotic flow and separation selectivity of anions in electrochromatography with pseudo-stationary phases of C14-alkyldimethylammoniopropane sulfonate zwitterionic surfactants by addition of salts to the background electrolyte. *Freseniuss Journal of Analytical Chemistry*, **2001**, 371, 502-6		16
49	Determination of inorganic anions by capillary electrochromatography. *TrAC - Trends in Analytical Chemistry*, **2001**, 20, 355-364	14.6	19
48	Modelling of migration behaviour of inorganic anions in ion-exchange capillary electrochromatography. *Electrophoresis*, **2001**, 22, 503-10	3.6	11
47	Anion-exchange capillary electrochromatography with indirect UV and direct contactless conductivity detection. *Electrophoresis*, **2001**, 22, 1273-81	3.6	57
46	Separation of niobium(V) and tantalum(V) as ternary complexes with citrate and metallochromic ligands by capillary electrophoresis. *Analytica Chimica Acta*, **2001**, 434, 301-307	6.6	16
45	Determination of association constants of inorganic ions with C12- and C14-alkyldimethylammoniopropane sulfonate zwitterionic surfactants using capillary electrochromatography. *Analytica Chimica Acta*, **2001**, 442, 221-230	6.6	29
44	Practical method for evaluation of linearity and effective pathlength of on-capillary photometric detectors in capillary electrophoresis. *Journal of Chromatography A*, **2001**, 927, 237-41	4.5	25
43	New isoelectric buffers for capillary electrophoresis: N-carboxymethylated polyethyleneimine as a macromolecular isoelectric buffer. *Analyst, The*, **2001**, 126, 421-5	5	12
42	Speciation of Tin, Lead, Mercury, Arsenic and Selenium Compounds by Capillary Electrophoresis. *International Journal of Environmental Analytical Chemistry*, **2001**, 81, 161-205	1.8	17
41	On-capillary ion-exchange preconcentration of inorganic anions in open-tubular capillary electrochromatogrpahy with elution using transient-isotachophoretic gradient. 2. Characterization of the isotachophoretic gradient. *Analytical Chemistry*, **2001**, 73, 820-8	7.8	63
40	Indirect photomeric detection of anions in capillary electrophoresis using dyes as probes and electrolytes buffered with an isoelectric ampholyte. *Electrophoresis*, **2000**, 21, 1312-9	3.6	34
39	Indirect spectrophotometric detection of inorganic anions in ion-exchange capillary electrochromatography. *Electrophoresis*, **2000**, 21, 3073-80	3.6	31
38	Peak shapes in open tubular ion-exchange capillary electrochromatography of inorganic anions. *Journal of Chromatography A*, **2000**, 892, 303-13	4.5	28
37	Elution mechanism in electrostatic ion chromatography with histidine as an isoelectric ampholytic mobile phase. *Journal of Chromatography A*, **2000**, 884, 287-96	4.5	10
36	Solid-phase trapping of solutes for further chromatographic or electrophoretic analysis. *Journal of Chromatography A*, **2000**, 902, 137-66	4.5	70
35	Design of background electrolytes for indirect detection of anions by capillary electrophoresis. *TrAC - Trends in Analytical Chemistry*, **2000**, 19, 10-17	14.6	42

34	Open-tubular ion-exchange capillary electrochromatography of inorganic anions. *Analyst, The*, **2000**, 125, 1235-1241	5	49
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32	On-capillary ion-exchange preconcentration of inorganic anions using open-tubular capillaries followed by elution with a transient isotachophoretic gradient. *Analyst, The*, **2000**, 125, 799-802	5	34
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