# Miroslav Macka

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

#	Paper	IF	Citations
195	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. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>2002</b> , 27, 995-1007	3.5	120
194	Conductivity detection for conventional and miniaturised capillary electrophoresis systems. <i>Electrophoresis</i> , <b>2004</b> , 25, 4032-57	3.6	116
193	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. <i>Analytical Chemistry</i> , <b>2007</b> , 79, 7005-13	7.8	113
192	Latex-coated polymeric monolithic ion-exchange stationary phases. 1. Anion-exchange capillary electrochromatography and in-line sample preconcentration in capillary electrophoresis. <i>Analytical Chemistry</i> , <b>2005</b> , 77, 407-16	7.8	113
191	New Fully Portable Instrument for the Versatile Determination of Cations and Anions by Capillary Electrophoresis with Contactless Conductivity Detection. <i>Electroanalysis</i> , <b>2007</b> , 19, 2059-2065	3	100
190	Determination of metal ions by capillary electrophoresis. <i>Electrophoresis</i> , <b>1997</b> , 18, 2482-501	3.6	99
189	On-column ion-exchange preconcentration of inorganic anions in open tubular capillary electrochromatography with elution using transient-isotachophoretic gradients. 3. Implementation and method development. <i>Analytical Chemistry</i> , <b>2002</b> , 74, 2112-8	7.8	95
188	Light-emitting diodes for analytical chemistry. Annual Review of Analytical Chemistry, 2014, 7, 183-207	12.5	87
187	Developments in sample preparation and separation techniques for the determination of inorganic ions by ion chromatography and capillary electrophoresis. <i>Journal of Chromatography A</i> , <b>1999</b> , 856, 145	- <del>117</del> 5	83
186	Portable capillary-based (non-chip) capillary electrophoresis. <i>TrAC - Trends in Analytical Chemistry</i> , <b>2010</b> , 29, 339-353	14.6	79
185	Changes in Electrolyte pH Due to Electrolysis during Capillary Zone Electrophoresis. <i>Analytical Chemistry</i> , <b>1998</b> , 70, 743-749	7.8	74
184	Separation of uranium(VI) and lanthanides by capillary electrophoresis using on-capillary complexation with arsenazo III. <i>Journal of Chromatography A</i> , <b>1998</b> , 803, 279-290	4.5	72
183	Preparation and characterisation of anion-exchange latex-coated silica monoliths for capillary electrochromatography. <i>Journal of Chromatography A</i> , <b>2006</b> , 1109, 10-8	4.5	70
182	Solid-phase trapping of solutes for further chromatographic or electrophoretic analysis. <i>Journal of Chromatography A</i> , <b>2000</b> , 902, 137-66	4.5	70
181	Enhancement of detection sensitivity for indirect photometric detection of anions and cations in capillary electrophoresis. <i>Electrophoresis</i> , <b>2003</b> , 24, 2150-67	3.6	63
180	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. <i>Analytical Chemistry</i> , <b>2001</b> , 73, 820-8	7.8	63
179	Microfluidic isotachophoresis: a review. <i>Electrophoresis</i> , <b>2013</b> , 34, 1493-509	3.6	62

### (1998-2002)

178	Simultaneous separation of inorganic anions and cations using capillary electrophoresis with a movable contactless conductivity detector. <i>Analyst, The</i> , <b>2002</b> , 127, 715-8	5	62	
177	Molecular imprinted polymeric porous layers in open tubular capillaries for chiral separations. Journal of Chromatography A, <b>2014</b> , 1354, 85-91	4.5	60	
176	Anion-exchange capillary electrochromatography with indirect UV and direct contactless conductivity detection. <i>Electrophoresis</i> , <b>2001</b> , 22, 1273-81	3.6	57	
175	Linearity evaluation in absorbance detection: the use of light-emitting diodes for on-capillary detection in capillary electrophoresis. <i>Electrophoresis</i> , <b>1996</b> , 17, 1898-905	3.6	57	
174	A novel highly flexible, simple, rapid and low-cost fabrication tool for paper-based microfluidic devices (PADs) using technical drawing pens and in-house formulated aqueous inks. <i>Analytica Chimica Acta</i> , <b>2016</b> , 919, 70-77	6.6	53	
173	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> , <b>2013</b> , 781, 80-7	6.6	53	
172	Performance of a simple UV LED light source in the capillary electrophoresis of inorganic anions with indirect detection using a chromate background electrolyte. <i>Analyst, The</i> , <b>2002</b> , 127, 1564-7	5	52	
171	Combined contactless conductometric, photometric, and fluorimetric single point detector for capillary separation methods. <i>Analytical Chemistry</i> , <b>2010</b> , 82, 129-35	7.8	51	
170	Polystyrene bead-based system for optical sensing using spiropyran photoswitches. <i>Journal of Materials Chemistry</i> , <b>2008</b> , 18, 5063		51	
169	Inorganic monoliths in separation science: a review. <i>Analytica Chimica Acta</i> , <b>2012</b> , 750, 28-47	6.6	49	
168	Open-tubular ion-exchange capillary electrochromatography of inorganic anions. <i>Analyst, The</i> , <b>2000</b> , 125, 1235-1241	5	49	
167	On-line preconcentration of organic anions in capillary electrophoresis by solid-phase extraction using latex-coated monolithic stationary phases. <i>Journal of Chromatography A</i> , <b>2006</b> , 1106, 43-51	4.5	46	
166	Design and performance of a light-emitting diode detector compatible with a commercial capillary electrophoresis instrument. <i>Electrophoresis</i> , <b>2004</b> , 25, 3145-52	3.6	45	
165	Miniaturized movable contactless conductivity detection cell for capillary electrophoresis. <i>Electrophoresis</i> , <b>2003</b> , 24, 2144-9	3.6	45	
164	Design of background electrolytes for indirect detection of anions by capillary electrophoresis. <i>TrAC - Trends in Analytical Chemistry</i> , <b>2000</b> , 19, 10-17	14.6	42	
163	Artificial neural networks for computer-aided modelling and optimisation in micellar electrokinetic chromatography <i>A</i> , <b>1999</b> , 850, 345-53	4.5	41	
162	Performance of a New 235 nm UV-LED-Based On-Capillary Photometric Detector. <i>Analytical Chemistry</i> , <b>2016</b> , 88, 12116-12121	7.8	41	
161	Use of dyes as indirect detection probes for the high-sensitivity determination of anions by	4.5	39	

160	Determination of inorganic ions using microfluidic devices. <i>Electrophoresis</i> , <b>2004</b> , 25, 3602-24	3.6	39
159	Surface-area expansion with monolithic open tubular columns. <i>TrAC - Trends in Analytical Chemistry</i> , <b>2015</b> , 67, 16-25	14.6	38
158	Visible light initiated polymerization of styrenic monolithic stationary phases using 470 nm light emitting diode arrays. <i>Journal of Separation Science</i> , <b>2010</b> , 33, 61-6	3.4	37
157	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. <i>Electrophoresis</i> , <b>2006</b> , 27, 1069-77	3.6	37
156	Spiropyran modified micro-fluidic chip channels as photonically controlled self-indicating system for metal ion accumulation and release. <i>Sensors and Actuators B: Chemical</i> , <b>2009</b> , 140, 295-303	8.5	36
155	System peaks in capillary zone electrophoresis. 3. Practical rules for predicting the existence of system peaks in capillary zone electrophoresis of anions using indirect spectrophotometric detection. <i>Electrophoresis</i> , <b>1997</b> , 18, 1998-2007	3.6	36
154	Photoinitiated polymerisation of monolithic stationary phases in polyimide coated capillaries using visible region LEDs. <i>Chemical Communications</i> , <b>2008</b> , 6504-6	5.8	36
153	Variation of zeta-potential with temperature in fused-silica capillaries used for capillary electrophoresis. <i>Electrophoresis</i> , <b>2006</b> , 27, 672-6	3.6	36
152	Use of contactless conductivity detection for non-invasive characterisation of monolithic stationary-phase coatings for application in capillary ion chromatography. <i>Analyst, The</i> , <b>2007</b> , 132, 1238-	- <b>4</b> 5	36
151	Miniaturised medium pressure capillary liquid chromatography system with flexible open platform design using off-the-shelf microfluidic components. <i>Analytica Chimica Acta</i> , <b>2015</b> , 896, 166-76	6.6	35
150	Chip-based CE for rapid separation of 8-aminopyrene-1,3,6-trisulfonic acid (APTS) derivatized glycans. <i>Electrophoresis</i> , <b>2010</b> , 31, 3783-6	3.6	35
149	3D printed LED based on-capillary detector housing with integrated slit. <i>Analytica Chimica Acta</i> , <b>2017</b> , 965, 131-136	6.6	34
148	Determination of calcium and magnesium in water samples by high-performance liquid chromatography on a graphitic stationary phase with a mobile phase containing o-cresolphthalein complexone. <i>Journal of Chromatography A</i> , <b>1997</b> , 789, 329-337	4.5	34
147	Separation of metal ions and metal-containing species by micellar electrokinetic capillary chromatography, including utilisation of metal ions in separations of other species. <i>Journal of Chromatography A</i> , <b>1997</b> , 780, 329-341	4.5	34
146	Non-aqueous capillary electrophoresis with red light emitting diode absorbance detection for the analysis of basic dyes. <i>Analytica Chimica Acta</i> , <b>2006</b> , 580, 188-93	6.6	34
145	Indirect photomeric detection of anions in capillary electrophoresis using dyes as probes and electrolytes buffered with an isoelectric ampholyte. <i>Electrophoresis</i> , <b>2000</b> , 21, 1312-9	3.6	34
144	On-capillary ion-exchange preconcentration of inorganic anions using open-tubular capillaries followed by elution with a transient isotachophoretic gradient. <i>Analyst, The</i> , <b>2000</b> , 125, 799-802	5	34
143	UV-LED photopolymerised monoliths. <i>Analyst, The</i> , <b>2008</b> , 133, 864-6	5	33

## (2000-2002)

142	Separation of organic and inorganic arsenic species by capillary electrophoresis using direct spectrophotometric detection. <i>Electrophoresis</i> , <b>2002</b> , 23, 2430-8	3.6	33
141	Deep-UV-LEDs in photometric detection: a 255 nm LED on-capillary detector in capillary electrophoresis. <i>Analyst, The</i> , <b>2009</b> , 134, 2394-6	5	32
140	Evaluation of capillary ion exchange stationary phase coating distribution and stability using radial capillary column contactless conductivity detection. <i>Analyst, The,</i> <b>2006</b> , 131, 886-8	5	32
139	Speciation of arsenic and selenium by capillary electrophoresis. <i>Journal of Chromatography A</i> , <b>2004</b> , 1039, 201-8	4.5	32
138	Indirect spectrophotometric detection of inorganic anions in ion-exchange capillary electrochromatography. <i>Electrophoresis</i> , <b>2000</b> , 21, 3073-80	3.6	31
137	Mixed-mode capillary electrochromatographic separation of anionic analytes. <i>Analytical Communications</i> , <b>1999</b> , 36, 299-303		31
136	Instrument-free argentometric determination of chloride via trapezoidal distance-based microfluidic paper devices. <i>Analytica Chimica Acta</i> , <b>2019</b> , 1063, 1-8	6.6	30
135	Comparison of Different Contactless Conductivity Detectors for the Determination of Small Inorganic Ions by Capillary Electrophoresis. <i>Electroanalysis</i> , <b>2006</b> , 18, 1289-1296	3	30
134	Temperature profiles and heat dissipation in capillary electrophoresis. <i>Analytical Chemistry</i> , <b>2006</b> , 78, 2684-93	7.8	30
133	Separation and determination of vanadium in fertiliser by capillary electrophoresis with a light-emitting diode detector. <i>Analytical and Bioanalytical Chemistry</i> , <b>2002</b> , 374, 1082-5	4.4	30
132	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. <i>Electrophoresis</i> , <b>2003</b> , 24, 2045-53	3.6	30
131	Simultaneous separation of anions and cations by capillary electrophoresis with high magnitude, reversed electroosmotic flow. <i>Journal of Chromatography A</i> , <b>2004</b> , 1050, 217-222	4.5	30
130	Evanescent wave-initiated photopolymerisation as a new way to create monolithic open-tubular capillary columns: use as enzymatic microreactor for on-line protein digestion. <i>Analyst, The</i> , <b>2010</b> , 135, 477-81	5	29
129	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. <i>Electrophoresis</i> , <b>2002</b> , 23, 1796-802	3.6	29
128	Determination of association constants of inorganic ions with C12- and C14-alkyldimethylammoniopropane sulfonate zwitterionic surfactants using capillary electrochromatography. <i>Analytica Chimica Acta</i> , <b>2001</b> , 442, 221-230	6.6	29
127	Nanotechnology-based analytical approaches for detection of viruses. <i>Analytical Methods</i> , <b>2017</b> , 9, 237	′5 <i>-</i> 2391	28
126	Robust monolithic silica-based on-chip electro-osmotic micro-pump. <i>Analyst, The</i> , <b>2007</b> , 132, 417-24	5	28
125	Peak shapes in open tubular ion-exchange capillary electrochromatography of inorganic anions. Journal of Chromatography A, <b>2000</b> , 892, 303-13	4.5	28

124	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> , <b>1999</b> , 11, 1-9		28
123	Recent significant developments in detection and method development for the determination of inorganic ions by CE. <i>Electrophoresis</i> , <b>2009</b> , 30 Suppl 1, S53-67	3.6	27
122	Buffered Chromate Electrolytes for Separation and Indirect Absorbance Detection of Inorganic Anions in Capillary Electrophoresis. <i>Analytical Communications</i> , <b>1997</b> , 34, 351-353		27
121	Use of coupled open-tubular capillaries for in-line ion-exchange preconcentration of anions by capillary electrochromatography with elution by a transient isotachophoretic gradient. <i>Journal of Chromatography A</i> , <b>2004</b> , 1039, 187-92	4.5	27
120	Measurement of thiol-containing amino acids and phytochelatin (PC2) via capillary electrophoresis with laser-induced fluorescence detection. <i>Electrophoresis</i> , <b>2002</b> , 23, 81-7	3.6	27
119	Electro-osmotic and pressure-driven flow properties of frits for packed column capillary electrochromatography prepared from functionalised and bare silica packings. <i>Analyst, The</i> , <b>2000</b> , 125, 1-4	5	27
118	Manipulation of separation selectivity for alkali metals and ammonium in ion-exchange capillary electrochromatography using a suspension of cation exchange particles in the electrolyte as a pseudostationary phase. <i>Electrophoresis</i> , <b>1999</b> , 20, 1987-92	3.6	27
117	UV-absorbance detector for HPLC based on a light-emitting diode. <i>Analyst, The</i> , <b>2008</b> , 133, 465-9	5	26
116	Evaluation of monolithic and sub 2 microm particle packed columns for the rapid screening for illicit drugsapplication to the determination of drug contamination on Irish euro banknotes. <i>Analyst, The,</i> <b>2007</b> , 132, 208-17	5	26
115	Monolithic porous layer open tubular (monoPLOT) columns for low pressure liquid chromatography of proteins. <i>Analytical Methods</i> , <b>2011</b> , 3, 537-543	3.2	25
114	Sensitive indirect photometric detection of inorganic and small organic anions by capillary electrophoresis using Orange G as a probe ion. <i>Electrophoresis</i> , <b>2003</b> , 24, 557-66	3.6	25
113	Practical method for evaluation of linearity and effective pathlength of on-capillary photometric detectors in capillary electrophoresis. <i>Journal of Chromatography A</i> , <b>2001</b> , 927, 237-41	4.5	25
112	Versatile capillary column temperature control using a thermoelectric array based platform. <i>Analytical Chemistry</i> , <b>2011</b> , 83, 4307-13	7.8	24
111	Simultaneous separation of nitrofuran antibiotics and their metabolites by using micellar electrokinetic capillary chromatography. <i>Electrophoresis</i> , <b>2006</b> , 27, 4069-77	3.6	24
110	Highly sensitive indirect photometric detection of cations by capillary electrophoresis with the cationic dye chrysoidine. <i>Journal of Chromatography A</i> , <b>2003</b> , 997, 87-94	4.5	24
109	Miniature and fully portable gradient capillary liquid chromatograph. <i>Analytica Chimica Acta</i> , <b>2020</b> , 1101, 199-210	6.6	24
108	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
107	Geometrical Alignment of Multiple Fabrication Steps for Rapid Prototyping of Microfluidic Paper-Based Analytical Devices. <i>Analytical Chemistry</i> , <b>2017</b> , 89, 11918-11923	7.8	23

106	Determination of barium and strontium by capillary zone electrophoresis using an electrolyte containing sulfonazo III. <i>Journal of Chromatography A</i> , <b>1997</b> , 767, 303-310	4.5	23
105	Separation of dithiocarbamate metal complexes by micellar electrokinetic chromatography. <i>Analyst, The</i> , <b>1998</b> , 123, 2865-2870	5	23
104	Identification of products formed during UV irradiation of tamoxifen and their use for fluorescence detection in high-performance liquid chromatography. <i>Journal of Chromatography A</i> , <b>1990</b> , 514, 179-87	4.5	23
103	Separation of Nile Blue-labelled fatty acids by CE with absorbance detection using a red light-emitting diode. <i>Electrophoresis</i> , <b>2007</b> , 28, 1252-8	3.6	22
102	Pulsed potentiometric detection in capillary electrophoresis using platinum electrodes. <i>Analyst, The,</i> <b>2000</b> , 125, 1519-1523	5	22
101	Trends in analytical separations of magnetic (nano)particles. <i>TrAC - Trends in Analytical Chemistry</i> , <b>2019</b> , 114, 89-97	14.6	22
100	Polymerisation and surface modification of methacrylate monoliths in polyimide channels and polyimide coated capillaries using 660 nm light emitting diodes. <i>Journal of Chromatography A</i> , <b>2011</b> , 1218, 2954-62	4.5	21
99	Micro-flow injection analysis system: on-chip sample preconcentration, injection and delivery using coupled monolithic electroosmotic pumps. <i>Lab on A Chip</i> , <b>2007</b> , 7, 1597-9	7.2	21
98	Reliable electrophoretic mobilities free from Joule heating effects using CE. <i>Electrophoresis</i> , <b>2007</b> , 28, 3759-66	3.6	21
97	Microfluidic high performance liquid chromatography-chip hyphenation to inductively coupled plasma-mass spectrometry. <i>Journal of Chromatography A</i> , <b>2017</b> , 1497, 64-69	4.5	20
96	Development of a fully buffered molybdate electrolyte for capillary electrophoresis with indirect detection and its use for analysis of anions in Bayer liquor. <i>Electrophoresis</i> , <b>2004</b> , 25, 437-43	3.6	20
95	Decomposition of cisplatin in aqueous solutions containing chlorides by ultrasonic energy and light. Journal of Pharmaceutical Sciences, <b>1994</b> , 83, 815-8	3.9	20
94	One step multi-material 3D printing for the fabrication of a photometric detector flow cell. <i>Analytica Chimica Acta</i> , <b>2020</b> , 1097, 127-134	6.6	20
93	High-throughput deposition of chemical reagents via pen-plotting technique for microfluidic paper-based analytical devices. <i>Analytica Chimica Acta</i> , <b>2019</b> , 1047, 115-123	6.6	20
92	Prospects of pulsed amperometric detection in flow-based analytical systems - A review. <i>Analytica Chimica Acta</i> , <b>2019</b> , 1052, 10-26	6.6	20
91	Rapid and sensitive microbial analysis by capillary isotachophoresis with continuous electrokinetic injection under field amplified conditions. <i>Electrophoresis</i> , <b>2013</b> , 34, 1657-62	3.6	19
90	Determination of inorganic anions by capillary electrochromatography. <i>TrAC - Trends in Analytical Chemistry</i> , <b>2001</b> , 20, 355-364	14.6	19
89	Determination of niobium(V) and tantalum(V) as 4-(2-pyridylazo)resorcinol-citrate ternary complexes in geological materials by ion-interaction reversed-phase high-performance liquid chromatography 1 (2017) 1999 1999 1999 1999 1999 1999 1999 1	4.5	19

88	Sensitive determination of carbohydrates labelled with p-nitroaniline by capillary electrophoresis with photometric detection using a 406 nm light-emitting diode. <i>Electrophoresis</i> , <b>2006</b> , 27, 4039-46	3.6	18
87	Poly(tetrafluoroethylene) separation capillaries for capillary electrophoresis. Properties and applications. <i>Journal of Chromatography A</i> , <b>2004</b> , 1039, 193-9	4.5	18
86	Separation of opiate alkaloids by electrokinetic chromatography with sulfated-cyclodextrin as a pseudo-stationary phase. <i>Journal of Chromatography A</i> , <b>2003</b> , 985, 493-501	4.5	18
85	Separation of some metallochromic ligands by capillary zone electrophoresis and micellar electrokinetic capillary chromatography. <i>Journal of Chromatography A</i> , <b>1995</b> , 706, 493-501	4.5	18
84	Speciation of Tin, Lead, Mercury, Arsenic and Selenium Compounds by Capillary Electrophoresis. <i>International Journal of Environmental Analytical Chemistry</i> , <b>2001</b> , 81, 161-205	1.8	17
83	Theoretical Migration Model for Micellar Capillary Electrophoresis and Its Application to the Separation of Anionic Metal Complexes of HEDTC and CDTA. <i>Analytical Chemistry</i> , <b>1999</b> , 71, 1826-33	7.8	17
82	Miniaturized capillary ion chromatograph with UV light-emitting diode based indirect absorbance detection for anion analysis in potable and environmental waters. <i>Journal of Separation Science</i> , <b>2018</b> , 41, 3224-3231	3.4	16
81	Separation of Metal Bis(2-hydroxyethyl)dithiocarbamate Complexes byMicellar Electrokinetic Capillary Chromatography. <i>Analytical Communications</i> , <b>1997</b> , 34, 63-65		16
80	Optimisation of selectivity in the separation of aromatic amino acid enantiomers using sulfated beta-cyclodextrin and dextran sulfate as pseudostationary phases. <i>Electrophoresis</i> , <b>2004</b> , 25, 270-6	3.6	16
79	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. <i>Freseniuss</i>		16
78	Separation of niobium(V) and tantalum(V) as ternary complexes with citrate and metallochromic ligands by capillary electrophoresis. <i>Analytica Chimica Acta</i> , <b>2001</b> , 434, 301-307	6.6	16
77	Separation of some platinum(II) complexes by ionic strength gradient on a solvent-generated ion-exchange sorbent. <i>Journal of Chromatography A</i> , <b>1991</b> , 586, 291-5	4.5	16
76	Rapid separations of nile blue stained microorganisms as cationic charged species by chip-CE with LIF. <i>Electrophoresis</i> , <b>2012</b> , 33, 1421-6	3.6	15
75	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. <i>Analyst, The</i> , <b>2008</b> , 133, 1104-10	5	15
74	Capillary electrophoresis with end-capillary potentiometric detection using a copper electrode. <i>Electrophoresis</i> , <b>1999</b> , 20, 2539-46	3.6	15
73	Chromatographic behaviour of some platinum(II) complexes on octadecylsilica dynamically modified with a mixture of a cationic and an anionic amphiphilic modifier. <i>Journal of Chromatography A</i> , <b>1993</b> , 641, 101-113	4.5	15
72	Analytical isotachophoresis of lactate in human serum using dry film photoresist microfluidic chips compatible with a commercially available field-deployable instrument platform. <i>Analytica Chimica Acta</i> , <b>2013</b> , 803, 135-42	6.6	14
71	Separation of carboxylic acids in human serum by isotachophoresis using a commercial field-deployable analytical platform combined with in-house glass microfluidic chips. <i>Analytica Chimica Acta</i> <b>2012</b> , 755, 115-20	6.6	14

# (2002-2009)

70	Development of microfluidic chips for heterogeneous receptor-ligand interaction studies. <i>Analytical Chemistry</i> , <b>2009</b> , 81, 5095-8	7.8	14	
69	Optimisation of probe concentration in indirect photometric detection in capillary electrophoresis using highly absorbing dyes. <i>Electrophoresis</i> , <b>2002</b> , 23, 43-8	3.6	14	
68	Contactless conductivity detection of synthetic polymers in non-aqueous size-exclusion electrokinetic chromatography. <i>Journal of Chromatography A</i> , <b>2005</b> , 1068, 183-7	4.5	14	
67	Internal electrolyte temperatures for polymer and fused-silica capillaries used in capillary electrophoresis. <i>Electrophoresis</i> , <b>2005</b> , 26, 4333-44	3.6	14	
66	Miniaturized LC in Molecular Omics. <i>Analytical Chemistry</i> , <b>2020</b> , 92, 11485-11497	7.8	14	
65	High power deep UV-LEDs for analytical optical instrumentation. <i>Sensors and Actuators B: Chemical</i> , <b>2018</b> , 255, 1238-1243	8.5	14	
64	Factors influencing the choice of buffer in background electrolytes for indirect detection of fast anions by capillary electrophoresis. <i>Electrophoresis</i> , <b>1998</b> , 19, 2257-61	3.6	13	
63	Isoelectric buffers for capillary electrophoresis. 2. Bismorpholine derivative of a carboxylic acid as a low molecular weight isoelectric buffer. <i>Analytical Chemistry</i> , <b>2005</b> , 77, 120-5	7.8	13	
62	High sensitivity deep-UV LED-based z-cell photometric detector for capillary liquid chromatography. <i>Analytica Chimica Acta</i> , <b>2018</b> , 1032, 197-202	6.6	13	
61	Isotachophoretic Fluorescence in Situ Hybridization of Intact Bacterial Cells. <i>Analytical Chemistry</i> , <b>2017</b> , 89, 6513-6520	7.8	12	
60	Ion-Exchange Based Immobilization of Chromogenic Reagents on Microfluidic Paper Analytical Devices. <i>Analytical Chemistry</i> , <b>2019</b> , 91, 8756-8761	7.8	12	
59	Radiometric analysis of UV to near infrared LEDs for optical sensing and radiometric measurements in photochemical systems. <i>Sensors and Actuators B: Chemical</i> , <b>2018</b> , 262, 171-179	8.5	12	
58	Miniaturised electrically actuated high pressure injection valve for portable capillary liquid chromatography. <i>Talanta</i> , <b>2018</b> , 180, 32-35	6.2	12	
57	Flow injection analysis of organic peroxide explosives using acid degradation and chemiluminescent detection of released hydrogen peroxide. <i>Talanta</i> , <b>2015</b> , 143, 191-197	6.2	12	
56	Isotachophoresis on a chip with indirect fluorescence detection as a field deployable system for analysis of carboxylic acids. <i>Electrophoresis</i> , <b>2012</b> , 33, 3166-72	3.6	12	
55	The use of scanning contactless conductivity detection for the characterisation of stationary phases in micro-fluidic chips. <i>Lab on A Chip</i> , <b>2010</b> , 10, 1777-80	7.2	12	
54	Photochromic spiropyran monolithic polymers: Molecular photo-controllable electroosmotic pumps for micro-fluidic devices. <i>Sensors and Actuators B: Chemical</i> , <b>2010</b> , 148, 569-576	8.5	12	
53	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. <i>Electrophoresis</i> , <b>2002</b> , 23, 2821-32	3.6	12	

52	Electrokinetic chromatography utilizing two pseudostationary phases providing ion-exchange and hydrophobic interactions. <i>Analytical Chemistry</i> , <b>2002</b> , 74, 1241-8	7.8	12
51	New isoelectric buffers for capillary electrophoresis: N-carboxymethylated polyethyleneimine as a macromolecular isoelectric buffer. <i>Analyst, The</i> , <b>2001</b> , 126, 421-5	5	12
50	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. <i>Analytical Sciences</i> , <b>2013</b> , 29, 339-44	1.7	11
49	Modelling of migration behaviour of inorganic anions in ion-exchange capillary electrochromatography. <i>Electrophoresis</i> , <b>2001</b> , 22, 503-10	3.6	11
48	Role of ligand purity in separations of alkaline earth metals as arsenazo I complexes by capillary zone electrophoresis. <i>Journal of Chromatography A</i> , <b>1998</b> , 793, 177-185	4.5	10
47	Mixed-mode electrokinetic chromatography of aromatic bases with two pseudo-stationary phases and pH control. <i>Journal of Chromatography A</i> , <b>2003</b> , 997, 207-18	4.5	10
46	Elution mechanism in electrostatic ion chromatography with histidine as an isoelectric ampholytic mobile phase. <i>Journal of Chromatography A</i> , <b>2000</b> , 884, 287-96	4.5	10
45	White LEDs as broad spectrum light sources for spectrophotometry: demonstration in the visible spectrum range in a diode-array spectrophotometric detector. <i>Electrophoresis</i> , <b>2010</b> , 31, 3737-44	3.6	9
44	Using coupled monolithic rods for ultra-high peak capacity LC and LC-MS under normal LC operating pressures. <i>Analyst, The</i> , <b>2008</b> , 133, 180-3	5	9
43	Analysis of silanised polyglycerols by supercritical fluid chromatography. <i>Journal of Chromatography A</i> , <b>1994</b> , 675, 267-270	4.5	9
42	Separation of superparamagnetic magnetite nanoparticles by capillary zone electrophoresis using non-complexing and complexing electrolyte anions and tetramethylammonium as dispersing additive. <i>Electrophoresis</i> , <b>2018</b> , 39, 1429-1436	3.6	8
41	Comparison of cation-exchange capillary columns used for ion chromatographic separation of biogenic amines. <i>Journal of Chromatography A</i> , <b>2018</b> , 1571, 193-200	4.5	8
40	Determination of the surface heat-transfer coefficient in CE. <i>Electrophoresis</i> , <b>2009</b> , 30, 910-20	3.6	8
39	Selectivity control in the separation of aromatic amino acid enantiomers with sulphated beta-cyclodextrin. <i>Journal of Chromatography A</i> , <b>2004</b> , 1031, 179-86	4.5	8
38	Modelling, optimisation and control of selectivity in the separation of aromatic bases by electrokinetic chromatography using a neutral cyclodextrin as a pseudostationary phase. <i>Electrophoresis</i> , <b>2002</b> , 23, 1844-52	3.6	8
37	Continuous and real-time indoor and outdoor methane sensing with portable optical sensor using rapidly pulsed IR LEDs. <i>Talanta</i> , <b>2020</b> , 218, 121144	6.2	7
36	Photoreversible ion-binding using spiropyran modified silica microbeads. <i>International Journal of Nanomanufacturing</i> , <b>2010</b> , 5, 38	0.7	7
35	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. <i>Electrophoresis</i> , <b>2003</b> , 24, 2252-8	3.6	7

### (2020-2020)

34	Miniature Multiwavelength Deep UV-LED-Based Absorption Detection System for Capillary LC. <i>Analytical Chemistry</i> , <b>2020</b> , 92, 13688-13693	7.8	7
33	Counter-pressure-assisted ITP with electrokinetic injection under field-amplified conditions for bacterial analysis. <i>Analytical and Bioanalytical Chemistry</i> , <b>2015</b> , 407, 6995-7002	4.4	6
32	Light-emitting diode-compatible probes for indirect detection of anions in CE. <i>Electrophoresis</i> , <b>2007</b> , 28, 3453-60	3.6	6
31	Biopolymer-coated fused silica capillaries for high magnitude cathodic or anodic electro-osmotic flows in capillary electrophoresis. <i>Chromatographia</i> , <b>2003</b> , 57, S187-S193	2.1	6
30	Electrochemical characterisation of nanoparticulate zirconium dioxide-on-gold electrode for electrochemical detection in flow-based analytical systems. <i>Electrochimica Acta</i> , <b>2019</b> , 318, 61-68	6.7	5
29	Short-sweep capillary electrophoresis with a selective zinc fluorescence imaging reagent FluoZin-3 for determination of free and metalothionein-2a-bound Zn ions. <i>Analytica Chimica Acta</i> , <b>2018</b> , 1017, 41-	.47 <sup>6</sup>	5
28	Fibre coupled micro-light emitting diode array light source with integrated band-pass filter for fluorescence detection in miniaturised analytical systems. <i>Analytica Chimica Acta</i> , <b>2015</b> , 871, 85-92	6.6	5
27	Fluorinated ethylenepropylene copolymer as a potential capillary material in CE. <i>Electrophoresis</i> , <b>2007</b> , 28, 3477-84	3.6	5
26	Spectrophotometric study of the acid-base and optical properties of the 5-bromo and 5-chloro derivatives of 2-(2-pyridylazo)-5-(diethylamino)phenol (BrPADAP, ClPADAP) and their complexation equilibria with zinc(II) ions. <i>Collection of Czechoslovak Chemical Communications</i> , <b>1982</b> , 47, 2676-2691		5
25	Paper-based sol-gel thin films immobilized cytochrome P450 for enzyme activity measurement. <i>Analytica Chimica Acta</i> , <b>2020</b> , 1098, 86-93	6.6	5
24	Paperfluidic devices with a selective molecularly imprinted polymer surface for instrumentation-free distance-based detection of protein biomarkers. <i>Sensors and Actuators B: Chemical</i> , <b>2021</b> , 341, 129999	8.5	5
23	Capillary gap flow cell as capillary-end electrochemical detector in flow-based analysis. <i>Electrochimica Acta</i> , <b>2019</b> , 303, 85-93	6.7	4
22	Micellar electrokinetic chromatography of organic and peroxide-based explosives. <i>Analytica Chimica Acta</i> , <b>2015</b> , 876, 91-7	6.6	4
21	Chemometric Approach to the Calibration of Light Emitting Diode Based Optical Gas Sensors Using High-Resolution Transmission Molecular Absorption Data. <i>Analytical Chemistry</i> , <b>2018</b> , 90, 5973-5976	7.8	4
20	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. <i>RSC Advances</i> , <b>2013</b> , 3, 24927	3.7	4
19	Photoswitchable Stationary Phase Based on Packed Spiropyran Functionalized Silica Microbeads. <i>E-Journal of Surface Science and Nanotechnology</i> , <b>2009</b> , 7, 649-652	0.7	4
18	Distance-based paper device using polydiacetylene liposome as a chromogenic substance for rapid and in-field analysis of quaternary ammonium compounds. <i>Analytical and Bioanalytical Chemistry</i> , <b>2020</b> , 412, 3221-3230	4.4	3
17	Radiometric characterisation of light sources used in analytical chemistry - A review. <i>Analytica Chimica Acta</i> , <b>2020</b> , 1123, 113-127	6.6	3

16	Numerical model for light propagation and light intensity distribution inside coated fused silica capillaries. <i>Optics and Lasers in Engineering</i> , <b>2011</b> , 49, 924-931	4.6	3
15	Rapid Capillary Electrophoretic Method for Trace Chromium Speciation Using a Zwitterionic Isoelectric Polymer Coated Capillary and Photodiode Array Detection. <i>Analytical Letters</i> , <b>2004</b> , 37, 2771	- <del>27</del> 87	3
14	Miniaturization and microfluidics <b>2017</b> , 619-636		2
13	Incorporation of Acrylate Based Spiropyran Monoliths in Micro-Fluidic Devices for Photo-Controlled Electroosmotic Flow. <i>Advances in Science and Technology</i> , <b>2010</b> , 76, 100-105	0.1	2
12	CE study of neuroprotective humanin peptide and its derivatives: interactions with phosphate, sulphate, alkylsulphonates and sulphated-beta-CD. <i>Electrophoresis</i> , <b>2008</b> , 29, 665-71	3.6	2
11	Enhancement of Separation Capability of Inorganic Ions by Capillary Electrochromatography. <i>Bunseki Kagaku</i> , <b>2005</b> , 54, 107-120	0.2	2
10	Detection of pesticides in food products using paper-based devices by UV-induced fluorescence spectroscopy combined with molecularly imprinted polymers <i>Food Chemistry</i> , <b>2022</b> , 380, 132141	8.5	2
9	Spectrophotometric study of the complexation equilibria of cadmium ions with 5-bromo and 5-chloro derivatives of 2-(2-pyridylazo)-5-diethylaminophenol (BrPADAP, ClPADAP). <i>Collection of Czechoslovak Chemical Communications</i> , <b>1983</b> , 48, 52-59		2
8	UV-induced Zn:Cd/S quantum dots in-situ formed in the presence of thiols for sensitive and selective fluorescence detection of thiols. <i>Scientific Reports</i> , <b>2021</b> , 11, 13806	4.9	2
7	UV-light-actuated in-situ preparation of paper@ZnCd quantum dots for paper-based enzymatic nanoreactors. <i>Chemical Engineering Journal</i> , <b>2022</b> , 428, 132508	14.7	2
6	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. <i>Measurement: Journal of the International Measurement Confederation</i> , <b>2019</b> , 146, 749-757	4.6	1
5	Beads-based system for optical sensing using spiropyran photoswitches. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , <b>2007</b> , 2007, 4096-7		1
4	Fast pulsed amperometric waveform for miniaturised flow-through electrochemical detection: Application in monitoring graphene oxide reduction. <i>Electrochimica Acta</i> , <b>2019</b> , 328, 135087	6.7	1
3	Distance-based detection in analytical flow devices: From gas detection tubes to microfluidic chips and microfluidic paper-based analytical devices. <i>TrAC - Trends in Analytical Chemistry</i> , <b>2022</b> , 150, 116581	14.6	O
2	Metallothionein dimerization evidenced by QD-based FEster resonance energy transfer and capillary electrophoresis. <i>International Journal of Biological Macromolecules</i> , <b>2021</b> , 170, 53-60	7.9	
1	Simultaneous separation of anions and cations by capillary electrophoresis with high magnitude, reversed electroosmotic flow. <i>Journal of Chromatography A</i> , <b>2004</b> , 1050, 217-22	4.5	