

Vaclav Kasicka

List of Publications by Year in Descending Order

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

111
papers

2,771
citations

32
h-index

47
g-index

117
ext. papers

3,075
ext. citations

3.8
avg, IF

6.01
L-index

#	Paper	IF	Citations
111	Applications of capillary electromigration methods for separation and analysis of proteins (2017-mid 2021) - A review.. <i>Analytica Chimica Acta</i> , 2022 , 1209, 339447	6.6	4
110	Analysis of Peptides by Capillary Electromigration Methods. <i>Current and Future Developments in Food Science</i> , 2022 , 109-146	1	
109	Peptidomics and Capillary Electrophoresis. <i>Advances in Experimental Medicine and Biology</i> , 2021 , 1336, 87-104	3.6	1
108	Recent developments in capillary and microchip electroseparations of peptides (2019-mid 2021). <i>Electrophoresis</i> , 2021 ,	3.6	5
107	Microfluidics for Peptidomics, Proteomics, and Cell Analysis. <i>Nanomaterials</i> , 2021 , 11,	5.4	6
106	Inhibitors of CA IX Enzyme Based on Polyhedral Boron Compounds. <i>ChemBioChem</i> , 2021 , 22, 2741-2761	3.8	11
105	Investigating the position of the separation capillary and emitter tube tips in a nanoflow sheath-liquid CE-ESI-MS interface to decouple the ESI potential. <i>Talanta</i> , 2021 , 228, 122212	6.2	4
104	Polyhalogenated Bicyclo[1.1.1]pentane-1,3-dicarboxylic Acids. <i>Journal of Organic Chemistry</i> , 2021 , 86, 10303-10319	4.2	1
103	Multipodal insulin mimetics built on adamantane or proline scaffolds. <i>Bioorganic Chemistry</i> , 2021 , 107, 104548	5.1	0
102	In-bone protein digestion followed by LC-MS/MS peptide analysis as a new way towards the routine proteomic characterization of human maxillary and mandibular bone tissue in oral surgery. <i>Electrophoresis</i> , 2021 , 42, 2552-2562	3.6	0
101	Covalent cationic copolymer coatings allowing tunable electroosmotic flow for optimization of capillary electrophoretic separations. <i>Analytica Chimica Acta</i> , 2021 , 1178, 338789	6.6	7
100	Determination of acidity constants, ionic mobilities, and hydrodynamic radii of carborane-based inhibitors of carbonic anhydrases by capillary electrophoresis. <i>Electrophoresis</i> , 2021 , 42, 910-919	3.6	3
99	Characterization of AMBN I and II Isoforms and Study of Their Ca-Binding Properties. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	2
98	Recent developments in capillary and microchip electroseparations of peptides (2017-mid 2019). <i>Electrophoresis</i> , 2020 , 41, 10-35	3.6	23
97	Determination of binding constants of multiple charged cyclodextrin complexes by ACE using uncorrected and ionic strength corrected actual mobilities of the species involved. <i>Electrophoresis</i> , 2020 , 41, 523-535	3.6	1
96	Capillary electrophoretic profiling of in-bone tryptic digests of proteins as a potential tool for the detection of inflammatory states in oral surgery. <i>Journal of Separation Science</i> , 2020 , 43, 3949-3959	3.4	6
95	Bridge-Chlorinated Bicyclo[1.1.1]pentane-1,3-dicarboxylic Acids. <i>Journal of Organic Chemistry</i> , 2019 , 84, 2448-2461	4.2	12

94	Affinity capillary electrophoresis employed for determination of stability constants of antamanide complexes with univalent and divalent cations in methanol. <i>Electrophoresis</i> , 2019 , 40, 2321-2328	3.6	4
93	Enantioselective resolution of side-chain modified gem-difluorinated alcohols catalysed by <i>Candida antarctica</i> lipase B and monitored by capillary electrophoresis. <i>Bioorganic and Medicinal Chemistry</i> , 2019 , 27, 1246-1253	3.4	8
92	Pressure assisted partial filling affinity capillary electrophoresis employed for determination of binding constants of human insulin hexamer complexes with serotonin, dopamine, arginine, and phenol. <i>Analytica Chimica Acta</i> , 2019 , 1052, 170-178	6.6	27
91	Recent developments and applications of capillary and microchip electrophoresis in proteomics and peptidomics (2015-mid 2018). <i>Journal of Separation Science</i> , 2019 , 42, 398-414	3.4	30
90	Synthesis and selected properties of nonahalogenated 2-ammonio-decaborate anions and their derivatives substituted at N-centre. <i>Journal of Organometallic Chemistry</i> , 2018 , 865, 189-199	2.3	11
89	Diquats with Robust Chirality: Facile Resolution, Synthesis of Chiral Dyes, and Application as Selectors in Chiral Analysis. <i>Chemistry - A European Journal</i> , 2018 , 24, 7601-7604	4.8	4
88	Recent developments in capillary and microchip electroseparations of peptides (2015-mid 2017). <i>Electrophoresis</i> , 2018 , 39, 209-234	3.6	37
87	Separation of rotamers of 5-nitrosopyrimidines and estimation of binding constants of their complexes with β -cyclodextrin by capillary electrophoresis. <i>Journal of Chromatography A</i> , 2018 , 1570, 164-171	4.5	6
86	Comparison of two low flow interfaces for measurement of mobilities and stability constants by affinity capillary electrophoresis-mass spectrometry. <i>Journal of Chromatography A</i> , 2018 , 1568, 197-204	4.5	10
85	Application of Capillary Electromigration Methods for Physicochemical Measurements 2018 , 547-591		4
84	Affinity capillary electrophoresis and quantum mechanical calculations applied to investigation of [Gly]-antamanide binding with sodium and potassium ions. <i>Electrophoresis</i> , 2017 , 38, 1551-1559	3.6	7
83	Sensitive Versatile Fluorogenic Transmembrane Peptide Substrates for Rhomboid Intramembrane Proteases. <i>Journal of Biological Chemistry</i> , 2017 , 292, 2703-2713	5.4	16
82	Chiral analysis of β -ketimine Ru(II) and Fe(II) complexes by capillary electrophoresis using sulfated cyclodextrins as stereoselectors. <i>Electrophoresis</i> , 2017 , 38, 1913-1921	3.6	6
81	Determination of effective charges and ionic mobilities of polycationic antimicrobial peptides by capillary isotachopheresis and capillary zone electrophoresis. <i>Electrophoresis</i> , 2017 , 38, 2018-2024	3.6	5
80	Investigation of the acid-base and electromigration properties of 5-azacytosine derivatives using capillary electrophoresis and density functional theory calculations. <i>Journal of Chromatography A</i> , 2017 , 1479, 185-193	4.5	9
79	Affinity capillary electrophoresis and density functional theory study of noncovalent interactions of cyclic peptide [Gly]-antamanide with small cations. <i>Electrophoresis</i> , 2017 , 38, 2025-2033	3.6	3
78	Polyhalogenated Decaborate and 1-Ammoniododecaborate Ions: An Improved Synthesis with Elemental Halogens, and Physicochemical and Chemical Properties. <i>European Journal of Inorganic Chemistry</i> , 2017 , 2017, 4499-4509	2.3	10
77	Analysis of proteins and peptides by electromigration methods in microchips. <i>Journal of Separation Science</i> , 2017 , 40, 228-250	3.4	44

76	Interactions of helquats with chiral acidic aromatic analytes investigated by partial-filling affinity capillary electrophoresis. <i>Journal of Chromatography A</i> , 2016 , 1467, 417-426	4.5	13
75	Study of solvent effects on the stability constant and ionic mobility of the dibenzo-18-crown-6 complex with potassium ion by affinity capillary electrophoresis. <i>Journal of Separation Science</i> , 2016 , 39, 4429-4438	3.4	7
74	Estimation of acidity constants, ionic mobilities and charges of antimicrobial peptides by capillary electrophoresis. <i>Electrophoresis</i> , 2016 , 37, 3186-3195	3.6	8
73	Recent applications of capillary electromigration methods to separation and analysis of proteins. <i>Analytica Chimica Acta</i> , 2016 , 933, 23-42	6.6	83
72	Estimation of apparent binding constant of complexes of selected acyclic nucleoside phosphonates with Cyclodextrin by affinity capillary electrophoresis. <i>Electrophoresis</i> , 2016 , 37, 239-47	3.6	26
71	Recent developments and applications of capillary and microchip electrophoresis in proteomic and peptidomic analyses. <i>Journal of Separation Science</i> , 2016 , 39, 198-211	3.4	62
70	Recent developments in capillary and microchip electroseparations of peptides (2013-middle 2015). <i>Electrophoresis</i> , 2016 , 37, 162-88	3.6	59
69	Affinity Capillary Electrophoresis Applied to Investigation of Valinomycin Complexes with Ammonium and Alkali Metal Ions. <i>Methods in Molecular Biology</i> , 2016 , 1466, 219-32	1.4	3
68	Determination of acid dissociation constants of triazole fungicides by pressure assisted capillary electrophoresis. <i>Journal of Chromatography A</i> , 2015 , 1408, 243-9	4.5	31
67	Functional helquats: helical cationic dyes with marked, switchable chiroptical properties in the visible region. <i>Chemical Communications</i> , 2015 , 51, 1583-6	5.8	37
66	Capillary Electromigration Techniques: Capillary Electrophoresis 2015 , 503-530		
65	Capillary electrophoretic methods applied to the investigation of peptide complexes. <i>Journal of Separation Science</i> , 2015 , 38, 2708-21	3.4	52
64	Single-Crystal-to-Single-Crystal Transition in an Enantiopure [7]Helquat Salt: The First Observation of a Reversible Phase Transition in a Helicene-Like Compound. <i>Chemistry - A European Journal</i> , 2015 , 21, 13508-12	4.8	5
63	Study of deoxyribonucleic acid-ligand interactions by partial filling affinity capillary electrophoresis. <i>Journal of Chromatography A</i> , 2014 , 1349, 116-21	4.5	16
62	Generalized polymer effective charge measurement by capillary isotachophoresis. <i>Journal of Chromatography A</i> , 2014 , 1370, 255-62	4.5	10
61	Recent developments in capillary and microchip electroseparations of peptides (2011-2013). <i>Electrophoresis</i> , 2014 , 35, 69-95	3.6	69
60	Mono-N-acyl-2,6-diaminopimelic acid derivatives: analysis by electromigration and spectroscopic methods and examination of enzyme inhibitory activity. <i>Analytical Biochemistry</i> , 2014 , 467, 4-13	3.1	5
59	Modular Synthesis of Helicene-Like Compounds Based on the Imidazolium Motif. <i>European Journal of Organic Chemistry</i> , 2014 , 2014, 5681-5685	3.2	13

58	Determination of impurities and counterions of pharmaceuticals by capillary electromigration methods. <i>Journal of Separation Science</i> , 2014 , 37, 2039-55	3.4	52
57	Effective Charge Determination of Dendrigraft Poly-L-lysine by Capillary Isotachopheresis. <i>Macromolecules</i> , 2013 , 46, 533-540	5.5	32
56	Azahelicene Superbases as MAILD Matrices for Acidic Analytes. <i>ChemPlusChem</i> , 2013 , 78, 937-942	2.8	12
55	Determination of acidity constants and ionic mobilities of polyprotic peptide hormones by CZE. <i>Electrophoresis</i> , 2013 , 34, 2655-65	3.6	29
54	Preferential Crystallization of a Helicene-Biologen Hybrid [An Efficient Method to Resolve [5]Helquat Enantiomers on a 20 g Scale. <i>European Journal of Organic Chemistry</i> , 2012 , 2012, 489-499	3.2	31
53	Recent developments in CE and CEC of peptides (2009-2011). <i>Electrophoresis</i> , 2012 , 33, 48-73	3.6	94
52	A Chiral Dicationic [8]Circulenoid: Photochemical Origin and Facile Thermal Conversion into a Helicene Congener. <i>Angewandte Chemie</i> , 2012 , 124, 12138-12142	3.6	8
51	A chiral dicationic [8]circulenoid: photochemical origin and facile thermal conversion into a helicene congener. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 11972-6	16.4	20
50	Combined Theoretical and Experimental Study of the Complexation of a Hexaarylbenzene-Based Receptor with the Potassium Cation. <i>Journal of Solution Chemistry</i> , 2012 , 41, 1812-1824	1.8	2
49	Capillary electrophoresis in classical and carrier ampholytes-based background electrolytes applied to separation and characterization of gonadotropin-releasing hormones. <i>Journal of Chromatography A</i> , 2012 , 1267, 231-8	4.5	9
48	Open-tubular capillary electrochromatography with bare gold nanoparticles-based stationary phase applied to separation of trypsin digested native and glycosylated proteins. <i>Journal of Separation Science</i> , 2012 , 35, 994-1002	3.4	29
47	Counterion-Induced Inversion of Conformer Stability of a [5]Helquat Dication. <i>ChemPlusChem</i> , 2012 , 77, 624-635	2.8	8
46	Capillary electrophoretic profiling of tryptic digests of water soluble proteins from <i>Bacillus thuringiensis</i> -transgenic and non-transgenic maize species. <i>Food Chemistry</i> , 2012 , 134, 1607-15	8.5	15
45	Cyclodextrin modified gold nanoparticles-based open-tubular capillary electrochromatographic separations of polyaromatic hydrocarbons. <i>Journal of Nanoparticle Research</i> , 2011 , 13, 5947-5957	2.3	20
44	Chiral analysis of helquats by capillary electrophoresis: resolution of helical N-heteroaromatic dications using randomly sulfated cyclodextrins. <i>Electrophoresis</i> , 2011 , 32, 2683-92	3.6	34
43	[6]Saddlequat: a [6]helquat captured on its racemization pathway. <i>Chemical Science</i> , 2011 , 2, 2314-2320	9.4	35
42	Analysis of glycosylated hemoglobin A1c by capillary electrophoresis and capillary isoelectric focusing. <i>Analytical Biochemistry</i> , 2011 , 413, 8-15	3.1	47
41	Resolution of a configurationally stable [5]helquat: enantiocomposition analysis of a helicene congener by capillary electrophoresis. <i>New Journal of Chemistry</i> , 2010 , 34, 1063	3.6	33

40	A combined extraction and DFT study on the complexation of H ₃ O ⁺ with a hexaarylbenzene-based receptor. <i>Monatshefte Für Chemie</i> , 2010 , 141, 737-741	1.4	18
39	Theoretical study on the complexation of the sodium cation with a hexaarylbenzene-based receptor. <i>Monatshefte Für Chemie</i> , 2010 , 141, 1309-1311	1.4	
38	Recent advances in CE and CEC of peptides (2007-2009). <i>Electrophoresis</i> , 2010 , 31, 122-46	3.6	88
37	ACE applied to the quantitative characterization of benzo-18-crown-6-ether binding with alkali metal ions in a methanol-water solvent system. <i>Electrophoresis</i> , 2010 , 31, 702-8	3.6	33
36	Determination of acid-base dissociation constants of very weak zwitterionic heterocyclic bases by capillary zone electrophoresis. <i>Journal of Chromatography A</i> , 2010 , 1217, 8048-53	4.5	12
35	From micro to macro: conversion of capillary electrophoretic separations of biomolecules and bioparticles to preparative free-flow electrophoresis scale. <i>Electrophoresis</i> , 2009 , 30 Suppl 1, S40-52	3.6	42
34	Capillary affinity electrophoresis and ab initio calculation studies of valinomycin complexation with Na ⁺ ion. <i>Journal of Separation Science</i> , 2009 , 32, 597-604	3.4	22
33	Separation of tryptic peptides of native and glycated BSA using open-tubular CEC with salophene-lanthanide-Zn(2 ⁺) complex as stationary phase. <i>Journal of Separation Science</i> , 2009 , 32, 3930-3	3.4	11
32	Application of capillary affinity electrophoresis and density functional theory to the investigation of valinomycin-lithium complex. <i>Journal of Chromatography A</i> , 2009 , 1216, 3660-5	4.5	14
31	Mapping the peptide and protein immune response in the larvae of the fleshfly <i>Sarcophaga bullata</i> . <i>Journal of Peptide Science</i> , 2008 , 14, 670-82	2.1	12
30	Determination of acid-base dissociation constants of azahelicenes by capillary zone electrophoresis. <i>Journal of Separation Science</i> , 2008 , 31, 2686-93	3.4	30
29	Recent developments in CE and CEC of peptides. <i>Electrophoresis</i> , 2008 , 29, 179-206	3.6	106
28	Determination of stability constants of valinomycin complexes with ammonium and alkali metal ions by capillary affinity electrophoresis. <i>Electrophoresis</i> , 2008 , 29, 652-7	3.6	48
27	Theoretical and experimental study of the complexation of valinomycin with ammonium cation. <i>Biopolymers</i> , 2008 , 89, 1055-60	2.2	12
26	Comparison of CE-MS and LC-MS Analyses of Avian Eggshell Matrix Proteins. <i>Chromatographia</i> , 2008 , 67, 89-96	2.1	5
25	Seasonal Variations of Polycyclic Aromatic Hydrocarbons in Air Particulate Extracts. <i>Chromatographia</i> , 2008 , 68, 113-117	2.1	
24	Recent developments in capillary electrophoresis and capillary electrochromatography of peptides. <i>Electrophoresis</i> , 2006 , 27, 142-75	3.6	138
23	Determination of acid-base dissociation constants of amino- and guanidinopurine nucleotide analogs and related compounds by capillary zone electrophoresis. <i>Electrophoresis</i> , 2006 , 27, 1006-19	3.6	34

22	Investigation of the effect of ionic strength of Tris-acetate background electrolyte on electrophoretic mobilities of mono-, di-, and trivalent organic anions by capillary electrophoresis. <i>Electrophoresis</i> , 2005 , 26, 3221-31	3.6	39
21	Separation and investigation of structure-mobility relationships of insect oostatic peptides by capillary zone electrophoresis. <i>Electrophoresis</i> , 2004 , 25, 2299-308	3.6	53
20	Analysis of synthetic derivatives of peptide hormones by capillary zone electrophoresis and micellar electrokinetic chromatography with ultraviolet-absorption and laser-induced fluorescence detection. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2004 , 808, 75-82	3.2	30
19	Recent advances in capillary electrophoresis and capillary electrochromatography of peptides. <i>Electrophoresis</i> , 2003 , 24, 4013-46	3.6	98
18	Physicochemical characterization of phosphinic pseudopeptides by capillary zone electrophoresis in highly acidic background electrolytes. <i>Electrophoresis</i> , 2003 , 24, 774-81	3.6	44
17	Determination of dissociation constant of phosphinate group in phosphinic pseudopeptides by capillary zone electrophoresis. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2002 , 770, 145-54	3.2	36
16	Recent advances in capillary electrophoresis of peptides. <i>Electrophoresis</i> , 2001 , 22, 4139-62	3.6	94
15	Side reactions during photochemical cleavage of an alpha-methyl-6-nitroveratryl-based photolabile linker. <i>Journal of Peptide Science</i> , 2000 , 6, 355-65	2.1	21
14	External electric field control of electroosmotic flow in non-coated and coated fused-silica capillaries and its application for capillary electrophoretic separations of peptides. <i>Biomedical Applications</i> , 2000 , 741, 43-54		23
13	Insect oostatic activity of GnRH and its fragments. <i>International Journal of Peptide Research and Therapeutics</i> , 2000 , 7, 85-92		1
12	Insect oostatic activity of GnRH and its fragments. <i>International Journal of Peptide Research and Therapeutics</i> , 2000 , 7, 85-92		1
11	Capillary zone electrophoresis with electroosmotic flow controlled by external radial electric field. <i>Electrophoresis</i> , 1999 , 20, 2484-92	3.6	44
10	Capillary electrophoresis of peptides. <i>Electrophoresis</i> , 1999 , 20, 3084-105	3.6	116
9	Theory of the correlation between capillary and free-flow zone electrophoresis and its use for the conversion of analytical capillary separations to continuous free-flow preparative processes. Application to analysis and preparation of fragments of insulin. <i>Journal of Chromatography A</i> , 1998 , 798, 211-20	4.5	44
8	Discontinuities of pH at zone boundaries in isotachophoretic systems with poorly buffering leading electrolytes. <i>Electrophoresis</i> , 1998 , 19, 1601-5	3.6	8
7	Fast detection of phosphorylation of human pepsinogen A, human pepsinogen C and swine pepsinogen using a combination of reversed-phase high-performance liquid chromatography and capillary zone electrophoresis for peptide mapping. <i>Biomedical Applications</i> , 1997 , 688, 213-220		11
6	Application of reversed-phase high-performance liquid chromatography and capillary zone electrophoresis to the peptide mapping of pepsin isoenzymes. <i>Biomedical Applications</i> , 1996 , 681, 37-45		20
5	Contribution of capillary coiling to zone dispersion in capillary zone electrophoresis. <i>Electrophoresis</i> , 1995 , 16, 2034-2038	3.6	36

4	Application of capillary and free-flow zone electrophoresis and isotachophoresis to the analysis and preparation of the synthetic tetrapeptide fragment of growth hormone-releasing peptide. <i>Biomedical Applications</i> , 1994 , 656, 99-106		21
3	Application of capillary isotachophoresis in peptide analysis. <i>Biomedical Applications</i> , 1991 , 569, 123-74		30
2	Correlation of capillary zone electrophoresis with continuous free-flow zone electrophoresis: application to the analysis and purification of synthetic growth hormone releasing peptide. <i>Electrophoresis</i> , 1990 , 11, 932-6	3.6	22
1	Determination of dissociation constants of weak electrolytes by capillary isotachophoresis. <i>Journal of Chromatography A</i> , 1985 , 320, 33-43	4.5	18