

Vaclav Kasicka

List of Publications by Year in descending order

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112
papers

3,344
citations

125106

35
h-index

198040

52
g-index

117
all docs

117
docs citations

117
times ranked

2550
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent developments in capillary and microchip electroseparations of peptides (2019–mid 2021). <i>Electrophoresis</i> , 2022, 43, 82-108.	1.3	35
2	Applications of capillary electromigration methods for separation and analysis of proteins (2017–mid 2021). <i>Journal of Separation Science</i> , 2022, 43, 109-146.	2.6	40
3	Nonaqueous capillary electrophoresis and quantum chemical calculations applied to investigation of acid–base and electromigration properties of azahelicenes. <i>Electrophoresis</i> , 2022, 43, 696-707.	1.3	7
4	Chiral analysis of L-alanyl-L-tyrosine and its derivatives and estimation of binding constants of their complexes with 2-hydroxypropyl- β -cyclodextrin by capillary electrophoresis. <i>Journal of Separation Science</i> , 2022, 45, 3328-3338.	1.3	5
5	Analysis of Peptides by Capillary Electromigration Methods. <i>Current and Future Developments in Food Science</i> , 2022, , 109-146.	0.0	1
6	Multipodal insulin mimetics built on adamantane or proline scaffolds. <i>Bioorganic Chemistry</i> , 2021, 107, 104548.	2.0	3
7	Microfluidics for Peptidomics, Proteomics, and Cell Analysis. <i>Nanomaterials</i> , 2021, 11, 1118.	1.9	30
8	Inhibitors of CA IX Enzyme Based on Polyhedral Boron Compounds. <i>ChemBioChem</i> , 2021, 22, 2741-2761.	1.3	19
9	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.	2.9	10
10	Polyhalogenated Bicyclo[1.1.1]pentane-1,3-dicarboxylic Acids. <i>Journal of Organic Chemistry</i> , 2021, 86, 10303-10319.	1.7	8
11	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.	1.3	9
12	Covalent cationic copolymer coatings allowing tunable electroosmotic flow for optimization of capillary electrophoretic separations. <i>Analytica Chimica Acta</i> , 2021, 1178, 338789.	2.6	23
13	Application of Capillary and Free-Flow Zone Electrophoresis for Analysis and Purification of Antimicrobial L-Alanyl-Tyrosine from Hemolymph of Fleshfly <i>Neobellieria bullata</i> . <i>Molecules</i> , 2021, 26, 5636.	1.7	5
14	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.	1.3	5
15	Peptidomics and Capillary Electrophoresis. <i>Advances in Experimental Medicine and Biology</i> , 2021, 1336, 87-104.	0.8	2
16	Recent developments in capillary and microchip electroseparations of peptides (2017–mid 2019). <i>Electrophoresis</i> , 2020, 41, 10-35.	1.3	39
17	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.	1.3	4
18	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.	1.3	12

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19	Characterization of AMBN I and II Isoforms and Study of Their Ca ²⁺ -Binding Properties. <i>International Journal of Molecular Sciences</i> , 2020, 21, 9293.	1.8	9
20	Bridge-Chlorinated Bicyclo[1.1.1]pentane-1,3-dicarboxylic Acids. <i>Journal of Organic Chemistry</i> , 2019, 84, 2448-2461.	1.7	15
21	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.	1.3	9
22	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.	1.4	10
23	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.	2.6	49
24	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.	1.3	53
25	Synthesis and selected properties of nonhalogenated 2-ammonio-decaborate anions and their derivatives substituted at N-centre. <i>Journal of Organometallic Chemistry</i> , 2018, 865, 189-199.	0.8	12
26	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.	1.7	7
27	Recent developments in capillary and microchip electroseparations of peptides (2015–mid 2017). <i>Electrophoresis</i> , 2018, 39, 209-234.	1.3	48
28	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.	1.8	9
29	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.	1.8	14
30	Application of Capillary Electromigration Methods for Physicochemical Measurements. , 2018, , 547-591.		8
31	Affinity capillary electrophoresis and quantum mechanical calculations applied to investigation of [Gly ⁶]-antamanide binding with sodium and potassium ions. <i>Electrophoresis</i> , 2017, 38, 1551-1559.	1.3	7
32	Sensitive Versatile Fluorogenic Transmembrane Peptide Substrates for Rhomboid Intramembrane Proteases. <i>Journal of Biological Chemistry</i> , 2017, 292, 2703-2713.	1.6	18
33	Chiral analysis of \pm -diimine Ru(II) and Fe(II) complexes by capillary electrophoresis using sulfated cyclodextrins as stereoselectors. <i>Electrophoresis</i> , 2017, 38, 1913-1921.	1.3	8
34	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.	1.3	8
35	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.	1.8	11
36	Affinity capillary electrophoresis and density functional theory study of noncovalent interactions of cyclic peptide [Gly ⁶]-antamanide with small cations. <i>Electrophoresis</i> , 2017, 38, 2025-2033.	1.3	4

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37	Polyhalogenated Decaborate and 1- α -Ammoniododecaborate Ions: An Improved Synthesis with Elemental Halogens, and Physicochemical and Chemical Properties. <i>European Journal of Inorganic Chemistry</i> , 2017, 2017, 4499-4509.	1.0	13
38	Analysis of proteins and peptides by electromigration methods in microchips. <i>Journal of Separation Science</i> , 2017, 40, 228-250.	1.3	49
39	Recent developments in capillary and microchip electroseparations of peptides (2013-2015). <i>Electrophoresis</i> , 2016, 37, 162-188.	1.3	62
40	Affinity Capillary Electrophoresis Applied to Investigation of Valinomycin Complexes with Ammonium and Alkali Metal Ions. <i>Methods in Molecular Biology</i> , 2016, 1466, 219-232.	0.4	4
41	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.	1.8	23
42	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.	1.3	9
43	Estimation of acidity constants, ionic mobilities and charges of antimicrobial peptides by capillary electrophoresis. <i>Electrophoresis</i> , 2016, 37, 3186-3195.	1.3	10
44	Recent applications of capillary electromigration methods to separation and analysis of proteins. <i>Analytica Chimica Acta</i> , 2016, 933, 23-42.	2.6	103
45	Estimation of apparent binding constant of complexes of selected acyclic nucleoside phosphonates with β -cyclodextrin by affinity capillary electrophoresis. <i>Electrophoresis</i> , 2016, 37, 239-247.	1.3	33
46	Recent developments and applications of capillary and microchip electrophoresis in proteomic and peptidomic analyses. <i>Journal of Separation Science</i> , 2016, 39, 198-211.	1.3	65
47	Capillary electrophoretic methods applied to the investigation of peptide complexes. <i>Journal of Separation Science</i> , 2015, 38, 2708-2721.	1.3	61
48	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, 13508-13512.	1.7	7
49	Determination of acid dissociation constants of triazole fungicides by pressure assisted capillary electrophoresis. <i>Journal of Chromatography A</i> , 2015, 1408, 243-249.	1.8	38
50	Functional helquats: helical cationic dyes with marked, switchable chiroptical properties in the visible region. <i>Chemical Communications</i> , 2015, 51, 1583-1586.	2.2	45
51	Study of deoxyribonucleic acid-ligand interactions by partial filling affinity capillary electrophoresis. <i>Journal of Chromatography A</i> , 2014, 1349, 116-121.	1.8	19
52	Generalized polymer effective charge measurement by capillary isotachopheresis. <i>Journal of Chromatography A</i> , 2014, 1370, 255-262.	1.8	11
53	Recent developments in capillary and microchip electroseparations of peptides (2011-2013). <i>Electrophoresis</i> , 2014, 35, 69-95.	1.3	81
54	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.	1.1	6

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55	Modular Synthesis of Helicene-Like Compounds Based on the Imidazolium Motif. <i>European Journal of Organic Chemistry</i> , 2014, 2014, 5681-5685.	1.2	16
56	Determination of impurities and counterions of pharmaceuticals by capillary electromigration methods. <i>Journal of Separation Science</i> , 2014, 37, 2039-2055.	1.3	62
57	Effective Charge Determination of Dendrigraft Poly-L-lysine by Capillary Isotachophoresis. <i>Macromolecules</i> , 2013, 46, 533-540.	2.2	38
58	Azahelicene Superbases as MAILD Matrices for Acidic Analytes. <i>ChemPlusChem</i> , 2013, 78, 937-942.	1.3	17
59	Determination of acidity constants and ionic mobilities of polyprotic peptide hormones by CZE. <i>Electrophoresis</i> , 2013, 34, 2655-2665.	1.3	38
60	A Chiral Dicationic [8]Circulenoid: Photochemical Origin and Facile Thermal Conversion into a Helicene Congener. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 11972-11976.	7.2	21
61	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.	0.6	2
62	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, 231-238.	1.8	11
63	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.	1.3	31
64	Counterion-Induced Inversion of Conformer Stability of a [5]Helquat Dication. <i>ChemPlusChem</i> , 2012, 77, 624-635.	1.3	8
65	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, 1607-1615.	4.2	16
66	Preferential Crystallization of a Helicene-Viologen 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.	1.2	35
67	Recent developments in CE and CEC of peptides (2009-2011). <i>Electrophoresis</i> , 2012, 33, 48-73.	1.3	97
68	[6]Saddlequat: a [6]helquat captured on its racemization pathway. <i>Chemical Science</i> , 2011, 2, 2314-2320.	3.7	37
69	Cyclodextrin modified gold nanoparticles-based open-tubular capillary electrochromatographic separations of polyaromatic hydrocarbons. <i>Journal of Nanoparticle Research</i> , 2011, 13, 5947-5957.	0.8	24
70	Chiral analysis of helquats by capillary electrophoresis: Resolution of helical N-heteroaromatic dications using randomly sulfated cyclodextrins. <i>Electrophoresis</i> , 2011, 32, 2683-2692.	1.3	40
71	Analysis of glycosylated hemoglobin A1c by capillary electrophoresis and capillary isoelectric focusing. <i>Analytical Biochemistry</i> , 2011, 413, 8-15.	1.1	56
72	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.	0.9	18

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73	Theoretical study on the complexation of the sodium cation with a hexaarylbenzene-based receptor. Monatshefte für Chemie, 2010, 141, 1309-1311.	0.9	0
74	Recent advances in CE and CEC of peptides (2007–2009). Electrophoresis, 2010, 31, 122-146.	1.3	90
75	ACE applied to the quantitative characterization of benzo[1,8]crown-6 ether binding with alkali metal ions in a methanol–water solvent system. Electrophoresis, 2010, 31, 702-708.	1.3	33
76	Determination of acid–base dissociation constants of very weak zwitterionic heterocyclic bases by capillary zone electrophoresis. Journal of Chromatography A, 2010, 1217, 8048-8053.	1.8	14
77	Resolution of a configurationally stable [5]helquat: enantiocomposition analysis of a helicene congener by capillary electrophoresis. New Journal of Chemistry, 2010, 34, 1063.	1.4	36
78	From micro to macro: Conversion of capillary electrophoretic separations of biomolecules and bioparticles to preparative free-flow electrophoresis scale. Electrophoresis, 2009, 30, S40-52.	1.3	49
79	Capillary affinity electrophoresis and <i>ab initio</i> calculation studies of valinomycin complexation with Na ⁺ ion. Journal of Separation Science, 2009, 32, 597-604.	1.3	23
80	Separation of tryptic peptides of native and glycosylated BSA using open-tubular CEC with salophene–lanthanide–Zn ²⁺ complex as stationary phase. Journal of Separation Science, 2009, 32, 3930-3935.	1.3	13
81	Application of capillary affinity electrophoresis and density functional theory to the investigation of valinomycin–lithium complex. Journal of Chromatography A, 2009, 1216, 3660-3665.	1.8	14
82	Mapping the peptide and protein immune response in the larvae of the fleshfly <i>Sarcophaga bullata</i> . Journal of Peptide Science, 2008, 14, 670-682.	0.8	15
83	Determination of acid–base dissociation constants of azahelicenes by capillary zone electrophoresis. Journal of Separation Science, 2008, 31, 2686-2693.	1.3	33
84	Recent developments in CE and CEC of peptides. Electrophoresis, 2008, 29, 179-206.	1.3	112
85	Determination of stability constants of valinomycin complexes with ammonium and alkali metal ions by capillary affinity electrophoresis. Electrophoresis, 2008, 29, 652-657.	1.3	48
86	Theoretical and experimental study of the complexation of valinomycin with ammonium cation. Biopolymers, 2008, 89, 1055-1060.	1.2	12
87	Comparison of CE-MS and LC-MS Analyses of Avian Eggshell Matrix Proteins. Chromatographia, 2008, 67, 89-96.	0.7	9
88	Seasonal Variations of Polycyclic Aromatic Hydrocarbons in Air Particulate Extracts. Chromatographia, 2008, 68, 113-117.	0.7	0
89	Recent developments in capillary electrophoresis and capillary electrochromatography of peptides. Electrophoresis, 2006, 27, 142-175.	1.3	147
90	Determination of acid–base dissociation constants of amino- and guanidinopurine nucleotide analogs and related compounds by capillary zone electrophoresis. Electrophoresis, 2006, 27, 1006-1019.	1.3	35

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91	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, 3221-3231.	1.3	41
92	Separation and investigation of structure-mobility relationships of insect oostatic peptides by capillary zone electrophoresis. <i>Electrophoresis</i> , 2004, 25, 2299-2308.	1.3	54
93	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.	1.2	34
94	Recent advances in capillary electrophoresis and capillary electrochromatography of peptides. <i>Electrophoresis</i> , 2003, 24, 4013-4046.	1.3	111
95	Physicochemical characterization of phosphinic pseudopeptides by capillary zone electrophoresis in highly acidic background electrolytes. <i>Electrophoresis</i> , 2003, 24, 774-781.	1.3	49
96	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, 145-154.	1.2	38
97	Recent advances in capillary electrophoresis of peptides. <i>Electrophoresis</i> , 2001, 22, 4139-4162.	1.3	103
98	Side reactions during photochemical cleavage of an α -methyl-6-nitroveratryl-based photolabile linker. <i>Journal of Peptide Science</i> , 2000, 6, 355-365.	0.8	29
99	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.	1.7	23
100	Insect oostatic activity of GnRH and its fragments. <i>International Journal of Peptide Research and Therapeutics</i> , 2000, 7, 85-92.	0.1	1
101	Insect oostatic activity of GnRH and its fragments. <i>International Journal of Peptide Research and Therapeutics</i> , 2000, 7, 85-92.	0.1	1
102	Capillary zone electrophoresis with electroosmotic flow controlled by external radial electric field. <i>Electrophoresis</i> , 1999, 20, 2484-2492.	1.3	45
103	Capillary electrophoresis of peptides. <i>Electrophoresis</i> , 1999, 20, 3084-3105.	1.3	123
104	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. <i>Journal of Chromatography A</i> , 1998, 796, 211-220.	1.8	51
105	Discontinuities of pH at zone boundaries in isotachophoretic systems with poorly buffering leading electrolytes. <i>Electrophoresis</i> , 1998, 19, 1601-1605.	1.3	9
106	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.	1.7	12
107	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.	1.7	21
108	Contribution of capillary coiling to zone dispersion in capillary zone electrophoresis. <i>Electrophoresis</i> , 1995, 16, 2034-2038.	1.3	39

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109	Application of capillary and free-flow zone electrophoresis and isotachopheresis to the analysis and preparation of the synthetic tetrapeptide fragment of growth hormone-releasing peptide. Biomedical Applications, 1994, 656, 99-106.	1.7	23
110	Application of capillary isotachopheresis in peptide analysis. Biomedical Applications, 1991, 569, 123-174.	1.7	34
111	Correlation of capillary zone electrophoresis with continuous free-flow zone electrophoresis: Application to the analysis and purification of synthetic growth hormone releasing peptide. Electrophoresis, 1990, 11, 932-936.	1.3	27
112	Determination of dissociation constants of weak electrolytes by capillary isotachopheresis. Journal of Chromatography A, 1985, 320, 33-43.	1.8	22