

Hermann Wtzig

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89
papers

2,091
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27
h-index

41
g-index

94
ext. papers

2,348
ext. citations

3.9
avg, IF

5.09
L-index

#	Paper	IF	Citations
89	Strategies for capillary electrophoresis: method development and validation for pharmaceutical and biological applications. <i>Electrophoresis</i> , 1998 , 19, 2695-752	3.6	174
88	Possibilities to improve automation, speed and precision of proteome analysis: a comparison of two-dimensional electrophoresis and alternatives. <i>Electrophoresis</i> , 2001 , 22, 4035-52	3.6	86
87	Recent advances in capillary electrophoretic migration techniques for pharmaceutical analysis (2013-2015). <i>Electrophoresis</i> , 2016 , 37, 1591-608	3.6	80
86	Protein adsorption in fused-silica and polyacrylamide-coated capillaries. <i>Electrophoresis</i> , 2005 , 26, 2409-17	3.6	74
85	Quantitation in capillary electrophoresis-mass spectrometry. <i>Electrophoresis</i> , 2005 , 26, 3973-87	3.6	74
84	Sodium dodecyl sulfate solution is an effective between-run rinse for capillary electrophoresis of samples in biological matrices. <i>Biomedical Applications</i> , 1995 , 663, 400-5		73
83	Recent advances in capillary electrophoretic migration techniques for pharmaceutical analysis. <i>Electrophoresis</i> , 2014 , 35, 170-89	3.6	62
82	Physicochemical properties of SARS-CoV-2 for drug targeting, virus inactivation and attenuation, vaccine formulation and quality control. <i>Electrophoresis</i> , 2020 , 41, 1137-1151	3.6	53
81	Precision in affinity capillary electrophoresis for drug-protein binding studies. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2010 , 52, 232-41	3.5	48
80	Performance of instruments and aspects of methodology and validation in quantitative capillary electrophoresis an update. <i>Journal of Chromatography A</i> , 1997 , 768, 17-27	4.5	48
79	Capillary electrophoresis to investigate biopharmaceuticals and pharmaceutically-relevant binding properties. <i>TrAC - Trends in Analytical Chemistry</i> , 2013 , 48, 112-131	14.6	46
78	Quantitation of insulin by capillary electrophoresis and high-performance liquid chromatography method comparison and validation. <i>Journal of Chromatography A</i> , 1997 , 781, 445-455	4.5	46
77	Recent advances in affinity capillary electrophoresis for binding studies. <i>Bioanalysis</i> , 2014 , 6, 3369-92	2.1	42
76	Appropriate calibration functions for capillary electrophoresis I. Precision and sensitivity using peak areas and heights. <i>Journal of Chromatography A</i> , 1995 , 700, 1-7	4.5	40
75	Determination of pharmaceuticals in plasma by capillary electrophoresis without sample pretreatment reproducibility, limit of quantitation and limit of detection. <i>Electrophoresis</i> , 1997 , 18, 1882-96	3.6	37
74	Fast HPLC method for the determination of glimepiride, glibenclamide, and related substances using monolithic column and flow program. <i>Journal of Separation Science</i> , 2006 , 29, 1571-7	3.4	37
73	Precision and variance components in quantitative gel electrophoresis. <i>Electrophoresis</i> , 2005 , 26, 2470-5	3.6	37

72	Strategies in method development to quantify enantiomeric impurities using CE. <i>Electrophoresis</i> , 2008 , 29, 3552-62	3.6	35
71	Inner surface properties of capillaries for electrophoresis. <i>TrAC - Trends in Analytical Chemistry</i> , 2003 , 22, 588-604	14.6	35
70	A comprehensive platform to investigate protein-metal ion interactions by affinity capillary electrophoresis. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2015 , 107, 311-7	3.5	33
69	Affinity capillary electrophoresis for studying interactions in life sciences. <i>Methods</i> , 2018 , 146, 76-92	4.6	33
68	Data quality in drug discovery: the role of analytical performance in ligand binding assays. <i>Journal of Computer-Aided Molecular Design</i> , 2015 , 29, 847-65	4.2	32
67	Capillary electrophoresis-a high performance analytical separation technique. <i>Clinical Chemistry and Laboratory Medicine</i> , 2003 , 41, 724-38	5.9	32
66	The Arabidopsis KS-type dehydrin recovers lactate dehydrogenase activity inhibited by copper with the contribution of His residues. <i>Plant Science</i> , 2016 , 245, 135-42	5.3	28
65	Quantitative gel electrophoresis: sources of variation. <i>Journal of Proteome Research</i> , 2008 , 7, 1226-34	5.6	28
64	Capillary isoelectric focusing--reproducibility and protein adsorption. <i>Electrophoresis</i> , 2004 , 25, 2959-64	3.6	28
63	Protein quantitation using various modes of high performance liquid chromatography. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2012 , 71, 127-38	3.5	27
62	Quantification in capillary electrophoresis-mass spectrometry: long- and short-term variance components and their compensation using internal standards. <i>Electrophoresis</i> , 2005 , 26, 2360-75	3.6	26
61	Micellar electrokinetic capillary chromatography as a powerful tool for pharmacological investigations without sample pretreatment: a precise technique providing cost advantages and limits of detection to the low nanomolar range. <i>Electrophoresis</i> , 1999 , 20, 2379-89	3.6	26
60	Pharmacokinetic investigations with direct injection of plasma samples: possible savings using capillary electrophoresis (CE). <i>Archiv Der Pharmazie</i> , 1999 , 332, 175-8	4.3	25
59	Capillary gel electrophoresis for precise protein quantitation. <i>Electrophoresis</i> , 2012 , 33, 3276-80	3.6	24
58	Characterization of inner surface phenomena in capillary electrophoresis capillaries by electron microscopy, atomic force microscopy and secondary ion mass spectroscopy. <i>Journal of Chromatography A</i> , 1997 , 781, 55-65	4.5	23
57	Precise, fast, and flexible determination of protein interactions by affinity capillary electrophoresis: part 1: performance. <i>Electrophoresis</i> , 2012 , 33, 3316-22	3.6	22
56	Precise, fast and flexible determination of protein interactions by affinity capillary electrophoresis. Part 2: cations. <i>Electrophoresis</i> , 2013 , 34, 1812-9	3.6	22
55	Reproducible protein analysis by CE using linear polyacrylamide-coated capillaries and hydrochloric acid rinsing. <i>Electrophoresis</i> , 2007 , 28, 2324-8	3.6	22

54	Determination of protein charge variants with (imaged) capillary isoelectric focusing and capillary zone electrophoresis. <i>Electrophoresis</i> , 2018 , 39, 2492-2511	3.6	22
53	The next generation of capillary electrophoresis instruments: Performance of CE-SDS protein analysis. <i>Electrophoresis</i> , 2018 , 39, 311-325	3.6	21
52	Separation of enantiomers of N-acetylcysteine by capillary electrophoresis after derivatization by o-phthaldialdehyde. <i>Electrophoresis</i> , 1994 , 15, 763-8	3.6	21
51	Repeatability of monolithic HPLC columns while using a flow program. <i>Journal of Separation Science</i> , 2008 , 31, 1745-9	3.4	20
50	Unexpected surface chemistry in capillaries for electrophoresis. <i>Journal of Chromatography A</i> , 2000 , 894, 73-7	4.5	20
49	Minimum required signal-to-noise ratio for optimal precision in HPLC and CE. <i>Electrophoresis</i> , 2012 , 33, 1509-16	3.6	19
48	Fused-silica capillaries for capillary electrophoresis and gas chromatography: inner surface corrosion, within-batch differences, and influence of drawing parameters studied by atomic force microscopy. <i>Electrophoresis</i> , 1999 , 20, 2566-74	3.6	19
47	Precision from drug stability studies. Investigation of reliable repeatability and intermediate precision of HPLC assay procedures. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2005 , 38, 653-63	3.5	18
46	The lectin from the mushroom <i>Pleurotus ostreatus</i> : a phosphatase-activating protein that is closely associated with an alpha-galactosidase activity. A part of this paper has been presented as a preliminary report at the 17th Interlec. Meeting 1997 in Würzburg, Germany. <i>Plant Science</i> , 2001 , 160, 1025-1033	5.3	18
45	Optimization of affinity capillary electrophoresis for routine investigations of protein-metal ion interactions. <i>Journal of Separation Science</i> , 2015 , 38, 3629-37	3.4	17
44	Quality control of pentosane polysulfate by capillary zone electrophoresis using indirect detection. <i>Journal of Chromatography A</i> , 1998 , 817, 297-306	4.5	16
43	Long-term precision in capillary isoelectric focusing for protein analysis. <i>Journal of Separation Science</i> , 2008 , 31, 1834-40	3.4	16
42	Analytical instrument qualification in capillary electrophoresis. <i>Electrophoresis</i> , 2012 , 33, 1499-508	3.6	15
41	A strategy to develop fast RP-HPLC methods using monolithic silica columns. <i>Journal of Separation Science</i> , 2007 , 30, 1993-2001	3.4	15
40	The challenge to quantify proteins with charge trains due to isoforms or conformers. <i>Electrophoresis</i> , 2012 , 33, 263-9	3.6	13
39	Improvements in pentosan polysulfate sodium quality assurance using fingerprint electropherograms. <i>Electrophoresis</i> , 2001 , 22, 1150-62	3.6	13
38	Ionic liquids in enhancing the sensitivity of capillary electrophoresis: Off-line and on-line sample preconcentration techniques. <i>Electrophoresis</i> , 2016 , 37, 1609-23	3.6	13
37	Efficient and economic HPLC performance qualification. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2010 , 51, 557-64	3.5	12

36	Comparative charge-based separation study with various capillary electrophoresis (CE) modes and cation exchange chromatography (CEX) for the analysis of monoclonal antibodies. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2019 , 174, 460-470	3.5	11
35	Metal ion - Dehydrin interactions investigated by affinity capillary electrophoresis and computer models. <i>Journal of Plant Physiology</i> , 2017 , 216, 219-228	3.6	11
34	Purity control of carbamazepine by micellar electrokinetic chromatography. <i>Journal of Chromatography A</i> , 1997 , 768, 113-123	4.5	11
33	Experimental design and measurement uncertainty in ligand binding studies by affinity capillary electrophoresis. <i>Electrophoresis</i> , 2019 , 40, 1041-1054	3.6	11
32	Isoelectric point determination by imaged CIEF of commercially available SARS-CoV-2 proteins and the hACE2 receptor. <i>Electrophoresis</i> , 2021 , 42, 687-692	3.6	11
31	Interaction of albumins and heparinoids investigated by affinity capillary electrophoresis and free flow electrophoresis. <i>Electrophoresis</i> , 2018 , 39, 569-580	3.6	11
30	Using affinity capillary electrophoresis and computational models for binding studies of heparinoids with p-selectin and other proteins. <i>Electrophoresis</i> , 2017 , 38, 1560-1571	3.6	10
29	Infrared-based temperature measurements in capillary electrophoresis. <i>Electrophoresis</i> , 2011 , 32, 1530-6.6	3.6	10
28	Separation of cold medicine ingredients using a precise MEKC method at elevated pH. <i>Electrophoresis</i> , 2007 , 28, 1779-87	3.6	10
27	Long term kinetic measurements revealing precision and general performance of surface plasmon resonance biosensors. <i>Analytical Biochemistry</i> , 2017 , 530, 94-103	3.1	9
26	Design of experiments as a valuable tool for biopharmaceutical analysis with (imaged) capillary isoelectric focusing. <i>Electrophoresis</i> , 2019 , 40, 2382-2389	3.6	8
25	Ca(2+) -complex stability of GAPAGPLIVPY peptide in gas and aqueous phase, investigated by affinity capillary electrophoresis and molecular dynamics simulations and compared to mass spectrometric results. <i>Electrophoresis</i> , 2016 , 37, 744-51	3.6	8
24	Fast investigations from biological matrices using CE--test of a blood-brain barrier model. <i>Electrophoresis</i> , 2012 , 33, 395-401	3.6	8
23	Analysis of substances to be used as internal standards in MEKC. <i>Electrophoresis</i> , 2007 , 28, 1798-804	3.6	8
22	Investigation of the enantioselective interaction between selected drug enantiomers and human serum albumin by mobility shift-affinity capillary electrophoresis. <i>Journal of Separation Science</i> , 2020 , 43, 3960-3968	3.4	8
21	Characterization of human papillomavirus 6b L1 virus-like particles isolated from silkworms using capillary zone electrophoresis. <i>Journal of Bioscience and Bioengineering</i> , 2014 , 118, 311-4	3.3	7
20	Quantitative gel electrophoresis: new records in precision by elaborated staining and detection protocols. <i>Electrophoresis</i> , 2011 , 32, 1667-74	3.6	7
19	Improving precision in gel electrophoresis by stepwisely decreasing variance components. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2009 , 50, 320-7	3.5	7

18	Ni-modified magnetic nanoparticles for affinity purification of His-tagged proteins from the complex matrix of the silkworm fat body. <i>Journal of Nanobiotechnology</i> , 2020 , 18, 159	9.4	6
17	Stabilizing proteins for affinity capillary electrophoresis using ionic liquid aqueous two phase systems: Pharmaceuticals and human serum albumin. <i>Electrophoresis</i> , 2015 , 36, 3080-7	3.6	6
16	10 Validation of analytical methods using capillary electrophoresis. <i>Separation Science and Technology</i> , 2008 , 9, 225-244	1.7	5
15	Electroosmotic flow variations caused by the volatility of buffer components: diagnosis and therapy. <i>Journal of Chromatography A</i> , 2002 , 979, 97-103	4.5	5
14	Bone Morphogenetic Protein 2 (BMP-2) Aggregates Can be Solubilized by Albumin-Investigation of BMP-2 Aggregation by Light Scattering and Electrophoresis. <i>Pharmaceutics</i> , 2020 , 12,	6.4	5
13	Accurate and precise quantification of Cu,Zn-SOD in human red blood cells using species-specific double and triple IDMS. <i>Journal of Analytical Atomic Spectrometry</i> , 2016 , 31, 1922-1928	3.7	5
12	Investigating effects of sample pretreatment on protein stability using size-exclusion chromatography and high-resolution continuum source atomic absorption spectrometry. <i>Journal of Separation Science</i> , 2014 , 37, 2583-90	3.4	4
11	Precise, fast, and flexible determination of protein interactions by affinity capillary electrophoresis: part 3: anions. <i>Electrophoresis</i> , 2014 , 35, 2203-12	3.6	4
10	A comparative study of CE-SDS, SDS-PAGE, and Simple Western: Influences of sample preparation on molecular weight determination of proteins. <i>Electrophoresis</i> , 2021 , 42, 206-218	3.6	4
9	A systematic and methodical approach for the efficient purification of recombinant protein from silkworm larval hemolymph. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2020 , 1138, 121964	3.2	3
8	Performance qualification for reproducible Surface Plasmon Resonance analysis. <i>Analytical Biochemistry</i> , 2018 , 544, 108-113	3.1	2
7	Acceptance Criteria and Analytical Variability 2005 , 265-280		2
6	A comparative study of CE-SDS, SDS-PAGE, and Simple Western-Precision, repeatability, and apparent molecular mass shifts by glycosylation. <i>Electrophoresis</i> , 2021 , 42, 1521-1531	3.6	2
5	Interlaced Size Exclusion Chromatography for faster protein analysis. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2018 , 126, 101-103	5.7	1
4	Analytical Instrument Qualification 2014 , 11-40		1
3	Immobilization of Chondroitin Sulfate A onto Monolithic Epoxy Silica Column as a New Chiral Stationary Phase for High-Performance Liquid Chromatographic Enantioseparation. <i>Pharmaceutics</i> , 2021 , 14,	5.2	1
2	Protein analysis and stability: Overcoming trial-and-error by grouping according to physicochemical properties. <i>Journal of Chromatography A</i> , 2021 , 1649, 462234	4.5	0
1	Combination of strong anion exchange liquid chromatography with microchip capillary electrophoresis sodium dodecyl sulfate for rapid two-dimensional separations of complex protein mixtures. <i>Analytical and Bioanalytical Chemistry</i> , 2021 , 414, 1699	4.4	0

