Norman J Dovichi

List of Publications by Year
in descending order

171	8,051	34016 52	66788 78
papers	citations	h-index	g-index

176	176	176	4315
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	High-sensitivity fluorescence detector for fluorescein isothiocyanate derivatives of amino acids separated by capillary zone electrophoresis. Journal of Chromatography A, 1989, 480, 141-155.	1.8	260
2	Simplified capillary electrophoresis nanospray sheathâ€flow interface for high efficiency and sensitive peptide analysis. Rapid Communications in Mass Spectrometry, 2010, 24, 2554-2560.	0.7	201
3	Studies on Single Alkaline Phosphatase Molecules:Â Reaction Rate and Activation Energy of a Reaction Catalyzed by a Single Molecule and the Effect of Thermal DenaturationThe Death of an Enzyme. Journal of the American Chemical Society, 1996, 118, 5245-5253.	6.6	193
4	Single-Molecule Detection in Capillary Electrophoresis:Â Molecular Shot Noise as a Fundamental Limit to Chemical Analysis. Analytical Chemistry, 1996, 68, 690-696.	3.2	183
5	Ultrasensitive and Fast Bottomâ€up Analysis of Femtogram Amounts of Complex Proteome Digests. Angewandte Chemie - International Edition, 2013, 52, 13661-13664.	7.2	181
6	Laser-induced fluorescence of flowing samples as an approach to single-molecule detection in liquids. Analytical Chemistry, 1984, 56, 348-354.	3.2	173
7	Third-Generation Electrokinetically Pumped Sheath-Flow Nanospray Interface with Improved Stability and Sensitivity for Automated Capillary Zone Electrophoresisâ€“Mass Spectrometry Analysis of Complex Proteome Digests. Journal of Proteome Research, 2015, 14, 2312-2321.	1.8	173
8	Picomolar Assay of Native Proteins by Capillary Electrophoresis Precolumn Labeling, Submicellar Separation, and Laser-Induced Fluorescence Detection. Analytical Chemistry, 1997, 69, 3015-3021.	3.2	132
9	Bioanalytical Applications of Capillary Electrophoresis. Analytical Chemistry, 2006, 78, 4097-4110.	3.2	121
10	Capillary Zone Electrophoresis-Electrospray Ionization-Tandem Mass Spectrometry as an Alternative Proteomics Platform to Ultraperformance Liquid Chromatography-Electrospray Ionization-Tandem Mass Spectrometry for Samples of Intermediate Complexity. Analytical Chemistry, 2012, 84, 1617-1622.	3.2	121
11	Instrumentation for Chemical Cytometry. Analytical Chemistry, 2000, 72, 872-877.	3.2	119
12	Species identification and phylogenetic relationships based on partial HSP60 gene sequences within the genus Staphylococcus. International Journal of Systematic and Evolutionary Microbiology, 1999, 49, 1181-1192.	0.8	118
13	Capillary Electrophoresis for the Analysis of Biopolymers. Analytical Chemistry, 2000, 72, 111-128.	3.2	116
14	How Capillary Electrophoresis Sequenced the Human Genome. Angewandte Chemie - International Edition, 2000, 39, 4463-4468.	7.2	115
15	Chemical Cytometry: Fluorescence-Based Single-Cell Analysis. Annual Review of Analytical Chemistry, 2008, 1, 165-190.	2.8	108
16	Interaction of capillary zone electrophoresis with a sheath flow cuvette detector. Analytical Chemistry, 1990, 62, 496-503.	3.2	101
17	Picomolar Analysis of Proteins Using Electrophoretically Mediated Microanalysis and Capillary Electrophoresis with Laser-Induced Fluorescence Detection. Analytical Chemistry, 1998, 70, 4546-4548.	3.2	96
18	CE-Microreactor-CE-MS/MS for Protein Analysis. Analytical Chemistry, 2007, 79, 2230-2238.	3.2	96

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19	On-line protein digestion and peptide mapping by capillary electrophoresis with post-column labeling for laser-induced fluorescence detection. Electrophoresis, 2004, 25, 1319-1326.	1.3	95
20	Single-Shot Proteomics Using Capillary Zone Electrophoresisâ€“Electrospray Ionization-Tandem Mass Spectrometry with Production of More than 1â€‰250 Escherichia coli Peptide Identifications in a 50 min Separation. Analytical Chemistry, 2013, 85, 2569-2573.	3.2	94
21	Quantitative proteomics of Xenopus laevis embryos: expression kinetics of nearly 4000 proteins during early development. Scientific Reports, 2014, 4, 4365.	1.6	93
22	One-Dimensional Protein Analysis of an HT29 Human Colon Adenocarcinoma Cell. Analytical Chemistry, 2000, 72, 318-322.	3.2	92
23	Correlating cell cycle with metabolism in single cells: Combination of image and metabolic cytometry. , 1999, 37, 14-20.		85
24	Multiple Labeling of Proteins. Analytical Chemistry, 1998, 70, 2493-2494.	3.2	84
25	Single Cell Proteomics Using Frog (Xenopus laevis) Blastomeres Isolated from Early Stage Embryos, Which Form a Geometric Progression in Protein Content. Analytical Chemistry, 2016, 88, 6653-6657.	3.2	84
26	Over 10â€‰000 Peptide Identifications from the HeLa Proteome by Using Singleâ€Shot Capillary Zone Electrophoresis Combined with Tandem Mass Spectrometry. Angewandte Chemie - International Edition, 2014, 53, 13931-13933.	7.2	82
27	Surface modification based on Si-O and Si-C sublayers and a series ofN-substituted acrylamide top-layers for capillary electrophoresis. Electrophoresis, 1998, 19, 1677-1682.	1.3	81
28	Chemical cytometry. Current Opinion in Chemical Biology, 2003, 7, 603-608.	2.8	81
29	Stability of capillary gels for automated sequencing of DNA. Electrophoresis, 1992, 13, 475-483.	1.3	77
30	Cell Cycle-Dependent Protein Fingerprint from a Single Cancer Cell:Â Image Cytometry Coupled with Single-Cell Capillary Sieving Electrophoresis. Analytical Chemistry, 2003, 75, 3495-3501.	3.2	74
31	A replaceable microreactor for on-line protein digestion in a two-dimensional capillary electrophoresis system with tandem mass spectrometry detection. Journal of Chromatography A, 2011, 1218, 2007-2011.	1.8	74
32	Obesity Contributes to Ovarian Cancer Metastatic Success through Increased Lipogenesis, Enhanced Vascularity, and Decreased Infiltration of M1 Macrophages. Cancer Research, 2015, 75, 5046-5057.	0.4	74
33	Application of capillary electrophoresis with laser-induced fluorescence detection to the determination of biogenic amines and amino acids in brain microdialysate and homogenate samples. Journal of Chromatography A, 2001, 914, 293-298.	1.8	73
34	Reproducible Two-Dimensional Capillary Electrophoresis Analysis of Barrett's Esophagus Tissues. Analytical Chemistry, 2006, 78, 5977-5986.	3.2	73
35	Labeling effects on the isoelectric point of green fluorescent protein. Journal of Chromatography A, 1999, 853, 21-25.	1.8	72
36	Low-cost laser-induced fluorescence detector for micellar capillary zone electrophoresis. Journal of Chromatography A, 1992, 608, 117-120.	1.8	71

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37	Detection of Attomolar Concentrations of Alkaline Phosphatase by Capillary Electrophoresis Using Laser-Induced Fluorescence Detection. Analytical Chemistry, 1996, 68, 697-700.	3.2	70
38	Bottom-Up Proteomics of Escherichia coli Using Dynamic pH Junction Preconcentration and Capillary Zone Electrophoresis-Electrospray Ionization-Tandem Mass Spectrometry. Analytical Chemistry, 2014, 86, 6331-6336.	3.2	70
39	Thermally-initiated free radical polymerization for reproducible production of stable linear polyacrylamide coated capillaries, and their application to proteomic analysis using capillary zone electrophoresisâ€“mass spectrometry. Talanta, 2016, 146, 839-843.	2.9	66
40	Fresnel diffraction theory for steadyâ€state thermal lens measurements in thin films. Journal of Applied Physics, 1990, 67, 1170-1182.	1.1	65
41	Two-label peak-height encoded DNA sequencing by capillary gel electrophoresis: three examples. Nucleic Acids Research, 1992, 20, 4873-4880.	6.5	65
42	Dual roles for ATP in the regulation of phase separated protein aggregates in Xenopus oocyte nucleoli. ELife, 2018, 7, .	2.8	65
43	Attachment of a single fluorescent label to peptides for determination by capillary zone electrophoresis. Journal of Chromatography A, 1992, 608, 239-242.	1.8	64
44	Capillary sodium dodecyl sulfate-DALT electrophoresis of proteins in a single human cancer cell. Electrophoresis, 2001, 22, 3677-3682.	1.3	64
45	Capillary sodium dodecyl sulfate-DALT electrophoresis with laser-induced fluorescence detection for size-based analysis of proteins in human colon cancer cells. Electrophoresis, 2002, 23, 3136-3142.	1.3	62
46	Single-cell analysis using capillary electrophoresis: Influence of surface support properties on cell injection into the capillary. Electrophoresis, 2000, 21, 767-773.	1.3	59
47	Fast Top-Down Intact Protein Characterization with Capillary Zone Electrophoresisâ€“Electrospray Ionization Tandem Mass Spectrometry. Analytical Chemistry, 2013, 85, 5989-5995.	3.2	58
48	A multiple-capillary electrophoresis system for small-scale DNA sequencing and analysis. Nucleic Acids Research, 1999, 27, 36e-36.	6.5	57
49	Comparison of the LTQâ€Orbitrap Velos and the Qâ€Exactive for proteomic analysis of 1â€“1000â€‰ng RAW 264.7 cell lysate digests. Rapid Communications in Mass Spectrometry, 2013, 27, 157-162.	0.7	57
50	Detachable Strong Cation Exchange Monolith, Integrated with Capillary Zone Electrophoresis and Coupled with pH Gradient Elution, Produces Improved Sensitivity and Numbers of Peptide Identifications during Bottom-up Analysis of Complex Proteomes. Analytical Chemistry, 2015, 87, 4572-4577.	3.2	57
51	Detection of Green Fluorescent Protein in a Single Bacterium by Capillary Electrophoresis with Laser-Induced Fluorescence. Analytical Chemistry, 2007, 79, 778-781.	3.2	55
52	Use of a sheath flow cuvette for chemiluminescence detection of isoluminol thiocarbamyl-amino acids separated by capillary electrophoresis. Journal of Separation Science, 1993, 5, 331-339.	1.0	54
53	Activation energy of the separation of DNA sequencing fragments in denaturing noncross-linked polyacrylamide by capillary elecrophoresis. Electrophoresis, 1996, 17, 1436-1442.	1.3	54
54	Identification of Proteins in Single-Cell Capillary Electrophoresis Fingerprints Based on Comigration with Standard Proteins. Analytical Chemistry, 2003, 75, 3502-3505.	3.2	53

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55	A sheath-flow nanospray interface for capillary electrophoresis/mass spectrometry. Rapid Communications in Mass Spectrometry, 2005, 19, 187-192.	0.7	53
56	Femtomolar Concentration Detection Limit and Zeptomole Mass Detection Limit for Protein Separation by Capillary Isoelectric Focusing and Laser-Induced Fluorescence Detection. Analytical Chemistry, 2009, 81, 1741-1746.	3.2	52
57	Coupling Capillary Zone Electrophoresis with Electron Transfer Dissociation and Activated Ion Electron Transfer Dissociation for Top-Down Proteomics. Analytical Chemistry, 2015, 87, 5422-5429.	3.2	51
58	Construction and evaluation of a capillary array DNA sequencer based on a micromachined sheath-flow cuvette. Electrophoresis, 2000, 21, 1329-1335.	1.3	50
59	Integrated Capillary Zone Electrophoresisâ€“Electrospray Ionization Tandem Mass Spectrometry System with an Immobilized Trypsin Microreactor for Online Digestion and Analysis of Picogram Amounts of RAW 264.7 Cell Lysate. Analytical Chemistry, 2013, 85, 4187-4194.	3.2	49
60	Coupling Capillary Zone Electrophoresis to a Q Exactive HF Mass Spectrometer for Top-down Proteomics: 580 Proteoform Identifications from Yeast. Journal of Proteome Research, 2016, 15, 3679-3685.	1.8	49
61	Capillary Zone Electrophoresisâ€“Electrospray Ionization-Tandem Mass Spectrometry for Top-Down Characterization of the Mycobacterium marinum Secretome. Analytical Chemistry, 2014, 86, 4873-4878.	3.2	48
62	Integrated strong cation-exchange hybrid monolith coupled with capillary zone electrophoresis and simultaneous dynamic pH junction for large-volume proteomic analysis by mass spectrometry. Talanta, 2015, 138, 117-122.	2.9	48
63	Quantitative Multiple Reaction Monitoring of Peptide Abundance Introduced via a Capillary Zone Electrophoresisâ€“Electrospray Interface. Analytical Chemistry, 2012, 84, 6116-6121.	3.2	47
64	Over 2300 Phosphorylated Peptide Identifications with Single-Shot Capillary Zone Electrophoresis-Tandem Mass Spectrometry in a 100 min Separation. Analytical Chemistry, 2015, 87, 9532-9537.	3.2	47
65	Capillary zone electrophoresis-mass spectrometry for bottom-up proteomics. TrAC - Trends in Analytical Chemistry, 2018, 108, 23-37.	5.8	47
66	Formamide modified polyacrylamide gels for DNA sequencing by capillary gel electrophoresis. Electrophoresis, 1992, 13, 484-486.	1.3	46
67	The limiting mobility of DNA sequencing fragments for both cross-linked and noncross-linked polymers in capillary electrophoresis: DNA sequencing at 1200 V cmâ^'1. Electrophoresis, 1996, 17, 1037-1045.	1.3	44
68	On-line nonaqueous capillary electrophoresis and electrospray mass spectrometry of tricyclic antidepressants and metabolic profiling of amitriptyline byCunninghamella elegans. Electrophoresis, 1998, 19, 3183-3189.	1.3	44
69	Capillary electrophoresis with Orbitrap-Velos mass spectrometry detection. Talanta, 2012, 88, 324-329.	2.9	43
70	Predicting Electrophoretic Mobility of Tryptic Peptides for High-Throughput CZE-MS Analysis. Analytical Chemistry, 2017, 89, 2000-2008.	3.2	43
71	Capillary zone electrophoresis separation and laser-induced fluorescence detection of zeptomole quantities of fluorescein thiohydantoin derivatives of amino acids. Talanta, 1992, 39, 173-178.	2.9	42
72	Metabolic Cytometry: Capillary Electrophoresis with Two-Color Fluorescence Detection for the Simultaneous Study of Two Glycosphingolipid Metabolic Pathways in Single Primary Neurons. Analytical Chemistry, 2012, 84, 2799-2804.	3.2	42

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73	Fast separation and analysis of reduced monoclonal antibodies with capillary zone electrophoresis coupled to mass spectrometry. Talanta, 2016, 148, 529-533.	2.9	42
74	Nearly 1000 Protein Identifications from 50 ng of Xenopus laevis Zygote Homogenate Using Online Sample Preparation on a Strong Cation Exchange Monolith Based Microreactor Coupled with Capillary Zone Electrophoresis. Analytical Chemistry, 2016, 88, 877-882.	3.2	42
75	High efficiency and quantitatively reproducible protein digestion by trypsin-immobilized magnetic microspheres. Journal of Chromatography A, 2012, 1220, 68-74.	1.8	40
76	Automated Enzyme-Based Diagonal Capillary Electrophoresis: Application to Phosphopeptide Characterization. Analytical Chemistry, 2010, 82, 1564-1567.	3.2	39
77	Capillary zone electrophoresis for analysis of complex proteomes using an electrokinetically pumped sheath flow nanospray interface. Proteomics, 2014, 14, 622-628.	1.3	39
78	Dynamic pH junction preconcentration in capillary electrophoresis- electrospray ionization-mass spectrometry for proteomics analysis. Analyst, The, 2016, 141, 5216-5220.	1.7	39
79	A rapid cIEFâ€“ESIâ€“MS/MS method for host cell protein analysis of a recombinant human monoclonal antibody. Talanta, 2012, 98, 253-256.	2.9	38
80	Migration time correction for the analysis of derivatized amino acids and oligosaccharides by micellar capillary electrochromatography. Journal of Chromatography A, 2000, 869, 375-384.	1.8	37
81	Two-Dimensional Direct-Reading Fluorescence Spectrograph for DNA Sequencing by Capillary Array Electrophoresis. Analytical Chemistry, 2001, 73, 1234-1239.	3.2	37
82	Nine Orders of Magnitude Dynamic Range: Picomolar to Millimolar Concentration Measurement in Capillary Electrophoresis with Laser Induced Fluorescence Detection Employing Cascaded Avalanche Photodiode Photon Counters. Analytical Chemistry, 2011, 83, 2748-2753.	3.2	37
83	Attomole protein analysis by CIEF with LIF detection. Electrophoresis, 2009, 30, 297-302.	1.3	36
84	Bottom-up proteome analysis of E. coli using capillary zone electrophoresis-tandem mass spectrometry with an electrokinetic sheath-flow electrospray interface. Proteomics, 2013, 13, 2546-2551.	1.3	36
85	Biomonitoring of urinary tamoxifen and its metabolites from breast cancer patients using nonaqueous capillary electrophoresis with electrospray mass spectrometry. Electrophoresis, 2001, 22, 2730-2736.	1.3	35
86	Site-Specific Glycan Heterogeneity Characterization by Hydrophilic Interaction Liquid Chromatography Solid-Phase Extraction, Reversed-Phase Liquid Chromatography Fractionation, and Capillary Zone Electrophoresis-Electrospray Ionization-Tandem Mass Spectrometry. Analytical Chemistry, 2018, 90, 1223-1233.	3.2	35
87	Metabolomics of oncogene-specific metabolic reprogramming during breast cancer. Cancer & Metabolism, 2018, 6, 5.	2.4	35
88	<scp>CZE</scp>â€<scp>ESI</scp>â€<scp>MS</scp>/<scp>MS</scp> system for analysis of subnanogram amounts of tryptic digests of a cellular homogenate. Proteomics, 2012, 12, 3013-3019.	1.3	34
89	High speed capillary zone electrophoresisâ€“mass spectrometry via an electrokinetically pumped sheath flow interface for rapid analysis of amino acids and a protein digest. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2015, 991, 53-58.	1.2	34
90	Miniaturized Filter-Aided Sample Preparation (MICRO-FASP) Method for High Throughput, Ultrasensitive Proteomics Sample Preparation Reveals Proteome Asymmetry in Xenopus laevis Embryos. Analytical Chemistry, 2020, 92, 5554-5560.	3.2	34

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91	Solid-phase fluorescent labeling reaction of picomole amounts of insulin in very dilute solutions and their analysis by capillary electrophoresis. Electrophoresis, 1995, 16, 534-540.	1.3	33
92	Capillary zone electrophoresis for bottomâ€up analysis of complex proteomes. Proteomics, 2016, 16, 188-196.	1.3	33
93	Separation of DNA sequencing fragments at 53 bases/minute by capillary gel electrophoresis. Journal of Separation Science, 1992, 4, 449-453.	1.0	32
94	Manipulation of protein fingerprints during on-column fluorescent labeling: Protein fingerprinting of sixStaphylococcus species by capillary electrophoresis. Electrophoresis, 2001, 22, 1127-1132.	1.3	31
95	Capillary zone electrophoresis-multiple reaction monitoring from 100 pg of RAW 264.7 cell lysate digest. Analyst, The, 2013, 138, 3181.	1.7	31
96	Capillary zone electrophoresis separation and laser-based detection of both fluorescein thiohydantoin and dimethylaminoazobenzene thiohydantoin derivatives of amino acids. Electrophoresis, 1990, 11, 777-780.	1.3	30
97	Laserâ€based microchemical analysis. Review of Scientific Instruments, 1990, 61, 3653-3668.	0.6	30
98	Capillary zone electrophoresis tandem mass spectrometry detects low concentration host cell impurities in monoclonal antibodies. Electrophoresis, 2016, 37, 616-622.	1.3	30
99	Sensitive and fast characterization of site-specific protein glycosylation with capillary electrophoresis coupled to mass spectrometry. Talanta, 2018, 179, 22-27.	2.9	30
100	Capillary zone electrophoresis-electrospray ionization-tandem mass spectrometry for quantitative parallel reaction monitoring of peptide abundance and single-shot proteomic analysis of a human cell line. Journal of Chromatography A, 2014, 1359, 303-308.	1.8	29
101	Evaluation of a commercial electro-kinetically pumped sheath-flow nanospray interface coupled to an automated capillary zone electrophoresis system. Analytical and Bioanalytical Chemistry, 2017, 409, 1789-1795.	1.9	29
102	Six orders of magnitude dynamic range in capillary electrophoresis with ultrasensitive laser-induced fluorescence detection. Talanta, 2009, 80, 744-748.	2.9	28
103	On-line amino acid-based capillary isoelectric focusing-ESI-MS/MS for protein digests analysis. Analytica Chimica Acta, 2012, 750, 207-211.	2.6	28
104	High sensitivity capillary zone electrophoresis-electrospray ionization-tandem mass spectrometry for the rapid analysis of complex proteomes. Current Opinion in Chemical Biology, 2013, 17, 795-800.	2.8	28
105	Sub-femtomole determination of DABSYL-amino acids with capillary zone electrophoresis separation and laser-induced thermo-optical absorbance detection. Mikrochimica Acta, 1988, 96, 27-40.	2.5	27
106	Capillary Isoelectric Focusing-Tandem Mass Spectrometry and Reversed-Phase Liquid Chromatography-Tandem Mass Spectrometry for Quantitative Proteomic Analysis of Differentiating PC12 Cells By Eight-Plex Isobaric Tags for Relative and Absolute Quantification. Analytical Chemistry, 2013, 85, 7221-7229.	3.2	27
107	Absolute quantitation of host cell proteins in recombinant human monoclonal antibodies with an automated <scp>CZE</scp>â€<scp>ESI</scp>â€<scp>MS</scp>/<scp>MS</scp> system. Electrophoresis, 2014, 35, 1448-1452.	1.3	26
108	Multisegment injections improve peptide identification rates in capillary zone electrophoresis-based bottom-up proteomics. Journal of Chromatography A, 2017, 1523, 123-126.	1.8	26

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109	Production of Over 27 000 Peptide and Nearly 4400 Protein Identifications by Single-Shot Capillary-Zone Electrophoresisâ€“Mass Spectrometry via Combination of a Very-Low-Electroosmosis Coated Capillary, a Third-Generation Electrokinetically-Pumped Sheath-Flow Nanospray Interface, an Orbitrap Fusion Lumos Tribrid Mass Spectrometer, and an Advanced-Peak-Determination Algorithm. Analytical Chemistry, 2018, 90, 12090-12093.	3.2	26
110	Detection of 1â€¯zmol injection of angiotensin using capillary zone electrophoresis coupled to a Q-Exactive HF mass spectrometer with an electrokinetically pumped sheath-flow electrospray interface. Talanta, 2019, 204, 70-73.	2.9	26
111	Nonaqueous capillary electrophoretic separation and thermo-optical absorbance detection of five tricyclic antidepressants and metabolism of amitriptyline byCunninghamella elegans. Electrophoresis, 1998, 19, 3178-3182.	1.3	25
112	Over 4100 protein identifications from aXenopus laevisfertilized egg digest using reversed-phase chromatographic prefractionation followed by capillary zone electrophoresis-electrospray ionization-tandem mass spectrometry analysis. Proteomics, 2016, 16, 2945-2952.	1.3	25
113	Simplified sheath flow cuvette design for ultrasensitive laser induced fluorescence detection in capillary electrophoresis. Analyst, The, 2012, 137, 3099.	1.7	24
114	Phosphorylation Dynamics Dominate the Regulated Proteome during Early Xenopus Development. Scientific Reports, 2017, 7, 15647.	1.6	24
115	Surface-Confined Aqueous Reversible Additionâ€“Fragmentation Chain Transfer (SCARAFT) Polymerization Method for Preparation of Coated Capillary Leads to over 10 000 Peptides Identified from 25 ng HeLa Digest by Using Capillary Zone Electrophoresis-Tandem Mass Spectrometry. Analytical Chemistry, 2017, 89, 6774-6780.	3.2	24
116	CEâ€MALDI interface based on inkjet technology. Electrophoresis, 2009, 30, 4071-4074.	1.3	23
117	Coupling Methanol Denaturation, Immobilized Trypsin Digestion, and Accurate Mass and Time Tagging for Liquid-Chromatography-Based Shotgun Proteomics of Low Nanogram Amounts of RAW 264.7 Cell Lysate. Analytical Chemistry, 2012, 84, 8715-8721.	3.2	23
118	Optimization and comparison of bottom-up proteomic sample preparation for early-stage Xenopus laevis embryos. Analytical and Bioanalytical Chemistry, 2016, 408, 4743-4749.	1.9	22
119	Preparation of linear polyacrylamide coating and strong cationic exchange hybrid monolith in a single capillary, and its application as an automated platform for bottom-up proteomics by capillary electrophoresis-mass spectrometry. Mikrochimica Acta, 2017, 184, 921-925.	2.5	22
120	Sodium dodecyl sulfate-capillary electrophoresis of proteins in a sieving matrix utilizing two-spectral channel laser-induced fluorescence detection. Electrophoresis, 1998, 19, 2175-2178.	1.3	21
121	Capillary array isoelectric focusing with laser-induced fluorescence detection: milli-pH unit resolution and yoctomole mass detection limits in a 32-channel system. Analytical and Bioanalytical Chemistry, 2010, 397, 3305-3310.	1.9	21
122	Comprehensive analysis of host cell impurities in monoclonal antibodies with improved sensitivity by capillary zone electrophoresis mass spectrometry. Electrophoresis, 2017, 38, 401-407.	1.3	21
123	Accurate Determination of Peptide Phosphorylation Stoichiometry Via Automated Diagonal Capillary Electrophoresis Coupled with Mass Spectrometry: Proof of Principle. Analytical Chemistry, 2013, 85, 10692-10696.	3.2	20
124	Aquaporin-7 Regulates the Response to Cellular Stress in Breast Cancer. Cancer Research, 2020, 80, 4071-4086.	0.4	20
125	Micellar capillary electrophoresis separation and thermo-optical absorbance detection of products from manual peptide sequencing. Electrophoresis, 1994, 15, 1290-1294.	1.3	19
126	Combating PCR Bias in Bisulfite-Based Cytosine Methylation Analysis. Betaine-Modified Cytosine Deamination PCR. Analytical Chemistry, 1998, 70, 3818-3823.	3.2	19

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127	Repeatability of chemical cytometry: 2-DE analysis of single RAW 264.7 macrophage cells. Electrophoresis, 2007, 28, 2308-2313.	1.3	19
128	Coupling immobilized alkaline phosphatase-based automated diagonal capillary electrophoresis to tandem mass spectrometry for phosphopeptide analysis. Talanta, 2013, 116, 985-990.	2.9	19
129	Single-Shot Capillary Zone Electrophoresisâ€“Tandem Mass Spectrometry Produces over 4400 Phosphopeptide Identifications from a 220 ng Sample. Journal of Proteome Research, 2019, 18, 3166-3173.	1.8	19
130	Spatial and temporal depletion of ions from noncrosslinked denaturing polyacrylamide in capillary electrophoresis. Electrophoresis, 1994, 15, 1512-1517.	1.3	17
131	Capillary electrophoresis coupled with automated fraction collection. Talanta, 2014, 130, 288-293.	2.9	17
132	Stable, reproducible, and automated capillary zone electrophoresisâ€“tandem mass spectrometry system with an electrokinetically pumped sheathâ€“flow nanospray interface. Analytica Chimica Acta, 2014, 810, 94-98.	2.6	17
133	Uncovering immobilized trypsin digestion features from large-scale proteome data generated by high-resolution mass spectrometry. Journal of Chromatography A, 2014, 1337, 40-47.	1.8	17
134	Bottom-up proteomic analysis of single HCT 116 colon carcinoma multicellular spheroids. Rapid Communications in Mass Spectrometry, 2015, 29, 654-658.	0.7	17
135	Sample preparation protocol for bottom-up proteomic analysis of the secretome of the islets of Langerhans. Analyst, The, 2016, 141, 1700-1706.	1.7	17
136	Capillary electrophoresis coupled to negative mode electrospray ionization-mass spectrometry using an electrokinetically-pumped nanospray interface with primary amines grafted to the interior of a glass emitter. Talanta, 2017, 165, 522-525.	2.9	17
137	Simplified capillary isoelectric focusing with chemical mobilization for intact protein analysis. Journal of Separation Science, 2017, 40, 948-953.	1.3	17
138	Nicked-sleeve interface for two-dimensional capillary electrophoresis. Analyst, The, 2013, 138, 3621.	1.7	16
139	Quantitative Proteomics After Spinal Cord Injury (SCI) in a Regenerative and a Nonregenerative Stage in the Frog Xenopus laevis. Molecular and Cellular Proteomics, 2018, 17, 592-606.	2.5	16
140	The Effect of Temperature Oscillations on DNA Sequencing by Capillary Electrophoresis. Analytical Chemistry, 2001, 73, 1345-1349.	3.2	15
141	Optimization of mass spectrometric parameters improve the identification performance of capillary zone electrophoresis for single-shot bottom-up proteomics analysis. Analytica Chimica Acta, 2018, 1001, 93-99.	2.6	15
142	Asymmetric distribution of biomolecules of maternal origin in the Xenopus laevis egg and their impact on the developmental plan. Scientific Reports, 2018, 8, 8315.	1.6	15
143	A surface-enhanced Raman spectroscopy database of 63 metabolites. Talanta, 2020, 210, 120645.	2.9	13
144	General Protease Assay Method Coupling Solid-Phase Substrate Extraction and Capillary Electrophoresis. Analytical Chemistry, 1998, 70, 3824-3827.	3.2	12

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145	Chemical cytometry of thiols using capillary zone electrophoresis-laser induced fluorescence and TMPAB-o-M, an improved fluorogenic reagent. Analyst, The, 2016, 141, 1325-1330.	1.7	12
146	Minimal deuterium isotope effects in quantitation of dimethylâ€labeled complex proteomes analyzed with capillary zone electrophoresis/mass spectrometry. Electrophoresis, 2020, 41, 1374-1378.	1.3	12
147	Capillary isoelectric focusing with pHÂ9.7 cathode for the analysis of gastric biopsies. Analytical and Bioanalytical Chemistry, 2011, 400, 2025-2030.	1.9	10
148	Capillary zone electrophoresis as a tool for bottom-up protein analysis. Bioanalysis, 2016, 8, 89-92.	0.6	10
149	Double coupling Edman chemistry for high-sensitivity automated protein sequencing. The Protein Journal, 1997, 16, 491-493.	1.1	8
150	Quantitative analysis of the supernatant from host and transfected CHO cells using iTRAQ 8â€plex technique. Biotechnology and Bioengineering, 2016, 113, 2140-2148.	1.7	8
151	A High Voltage Power Supply That Mitigates Current Reversals in Capillary Zone Electrophoresis-Electrospray Mass Spectrometry. Journal of the American Society for Mass Spectrometry, 2017, 28, 247-252.	1.2	8
152	Capillary Zone Electrophoresis with Fraction Collection for Separation, Culturing, and Identification of Bacteria from an Environmental Microbiome. Analytical Chemistry, 2019, 91, 4649-4655.	3.2	8
153	Database of free solution mobilities for 276 metabolites. Talanta, 2020, 209, 120545.	2.9	8
154	MALDI-imaging of early stage Xenopus laevis embryos. Talanta, 2019, 204, 138-144.	2.9	5
155	Quantitative capillary zone electrophoresis-mass spectrometry reveals the N-glycome developmental plan during vertebrate embryogenesis. Molecular Omics, 2020, 16, 210-220.	1.4	5
156	High-Throughput, Comprehensive Single-Cell Proteomic Analysis of Xenopus laevis Embryos at the 50-Cell Stage Using a Microplate-Based MICROFASP System. Analytical Chemistry, 2022, 94, 3254-3259.	3.2	5
157	Spatially resolved differential resistance of bulk superconductors by laserâ€induced heating. Journal of Applied Physics, 1990, 68, 4882-4884.	1.1	4
158	DNA SEQUENCING BY CAPILLARY GEL ELECTROPHORESIS AND LASER-INDUCED FLUORFSCIIVCE DETECTION. Analytical Sciences, 1991, 7, 1485-1489.	0.8	4
159	Proteomics ofXenopusdevelopment. Molecular Human Reproduction, 2016, 22, 193-199.	1.3	4
160	Capillary zone electrophoresis separation and collection of spermatozoa for the forensic analysis of sexual assault evidence. Electrophoresis, 2020, 41, 1344-1353.	1.3	4
161	The Chemistry of a Single Enzyme Molecule. , 0, , 293-301.		3
162	Application of Fluorescently-Labeled Glycosphingolipids to Metabolic Profiling in Single Cells Using Capillary Electrophoresis. Trends in Glycoscience and Glycotechnology, 2012, 24, 169-178.	0.0	3

#	Article	IF	Citations
163	Seamlessly Integrated Miniaturized Filter-Aided Sample Preparation Method to Fractionation Techniques for Fast, Loss-Less, and In-Depth Proteomics Analysis of 1 Î¼g of Cell Lysates at Low Cost. Analytical Chemistry, 2022, 94, 10135-10141.	3.2	3
164	ATTOMOLE DETERMINATION OF PHENYL THIOHYDANTOIN DERIVATIVES OF AMINO ACIDS BY CAPILLARY ZONE ELECTROPHORESIS SEPARATION AND ULTRAVIOLET-LASER EXCITED THERMO-OPTICAL ABSORBANCE DETECTION. Analytical Sciences, 1991, 7, 959-961.	0.8	2
165	Bottom-up proteomics analysis of the secretome of murine islets of Langerhans in elevated glucose levels. Analyst, The, 2017, 142, 284-291.	1.7	2
166	3-D printed injection system for capillary electrophoresis. Analytical Methods, 2022, 14, 1163-1168.	1.3	2
167	Single Cell Proteomics. , 2006, , 225-245.		1
168	Capillary sodium dodecyl sulfate-DALT electrophoresis of proteins in a single human cancer cell. , 2001, 22, 3677.		1
169	Single Cell Proteomics. , 0, , 67-89.		0
170	Proteomic and Transcriptomic Analysis of Neural Cell Fate in Developing Xenopus Embryos. FASEB Journal, 2021, 35, .	0.2	0
171	Two-Dimensional Capillary Electrophoresis for the Comprehensive Analysis of Complex Protein Mixtures. , 0, , 345-363.		0