

# Norman J Dovichi

## List of Publications by Citations

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169  
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51  
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73  
g-index

176  
ext. papers

7,558  
ext. citations

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5.92  
L-index

#	Paper	IF	Citations
169	High-sensitivity fluorescence detector fluorescein isothiocyanate derivatives of amino acids separated by capillary zone electrophoresis. <i>Journal of Chromatography A</i> , <b>1989</b> , 480, 141-55	4.5	227
168	Studies on Single Alkaline Phosphatase Molecules: Reaction Rate and Activation Energy of a Reaction Catalyzed by a Single Molecule and the Effect of Thermal DenaturationThe Death of an Enzyme. <i>Journal of the American Chemical Society</i> , <b>1996</b> , 118, 5245-5253	16.4	177
167	Simplified capillary electrophoresis nanospray sheath-flow interface for high efficiency and sensitive peptide analysis. <i>Rapid Communications in Mass Spectrometry</i> , <b>2010</b> , 24, 2554-60	2.2	176
166	Single-Molecule Detection in Capillary Electrophoresis: Molecular Shot Noise as a Fundamental Limit to Chemical Analysis. <i>Analytical Chemistry</i> , <b>1996</b> , 68, 690-696	7.8	165
165	Ultrasensitive and fast bottom-up analysis of femtogram amounts of complex proteome digests. <i>Angewandte Chemie - International Edition</i> , <b>2013</b> , 52, 13661-4	16.4	159
164	Third-generation electrokinetically pumped sheath-flow nanospray interface with improved stability and sensitivity for automated capillary zone electrophoresis-mass spectrometry analysis of complex proteome digests. <i>Journal of Proteome Research</i> , <b>2015</b> , 14, 2312-21	5.6	142
163	Laser-induced fluorescence of flowing samples as an approach to single-molecule detection in liquids. <i>Analytical Chemistry</i> , <b>1984</b> , 56, 348-54	7.8	134
162	Picomolar assay of native proteins by capillary electrophoresis precolumn labeling, submicellar separation, and laser-induced fluorescence detection. <i>Analytical Chemistry</i> , <b>1997</b> , 69, 3015-21	7.8	125
161	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. <i>Analytical Chemistry</i> , <b>2012</b> , 84, 1617-22	7.8	112
160	Bioanalytical applications of capillary electrophoresis. <i>Analytical Chemistry</i> , <b>2006</b> , 78, 4097-110	7.8	111
159	Instrumentation for chemical cytometry. <i>Analytical Chemistry</i> , <b>2000</b> , 72, 872-7	7.8	108
158	Capillary electrophoresis for the analysis of biopolymers. <i>Analytical Chemistry</i> , <b>2000</b> , 72, 111R-128R	7.8	107
157	Species identification and phylogenetic relationships based on partial HSP60 gene sequences within the genus <i>Staphylococcus</i> . <i>International Journal of Systematic and Evolutionary Microbiology</i> , <b>1999</b> , 49 Pt 3, 1181-92	2.2	103
156	How Capillary Electrophoresis Sequenced the Human Genome This Essay is based on a lecture given at the Analytica 2000 conference in Munich (Germany) on the occasion of the Heinrich-Emanuel-Merck Prize presentation.. <i>Angewandte Chemie - International Edition</i> , <b>2000</b> , 39, 4463-4468	16.4	99
155	CE-microreactor-CE-MS/MS for protein analysis. <i>Analytical Chemistry</i> , <b>2007</b> , 79, 2230-8	7.8	91
154	Picomolar analysis of proteins using electrophoretically mediated microanalysis and capillary electrophoresis with laser-induced fluorescence detection. <i>Analytical Chemistry</i> , <b>1998</b> , 70, 4546-8	7.8	91
153	Chemical cytometry: fluorescence-based single-cell analysis. <i>Annual Review of Analytical Chemistry</i> , <b>2008</b> , 1, 165-90	12.5	90

152	On-line protein digestion and peptide mapping by capillary electrophoresis with post-column labeling for laser-induced fluorescence detection. <i>Electrophoresis</i> , <b>2004</b> , 25, 1319-26	3.6	90
151	Interaction of capillary zone electrophoresis with a sheath flow cuvette detector. <i>Analytical Chemistry</i> , <b>1990</b> , 62, 496-503	7.8	89
150	Single-shot proteomics using capillary zone electrophoresis-electrospray ionization-tandem mass spectrometry with production of more than 1250 Escherichia coli peptide identifications in a 50 min separation. <i>Analytical Chemistry</i> , <b>2013</b> , 85, 2569-73	7.8	88
149	One-dimensional protein analysis of an HT29 human colon adenocarcinoma cell. <i>Analytical Chemistry</i> , <b>2000</b> , 72, 318-22	7.8	88
148	Quantitative proteomics of Xenopus laevis embryos: expression kinetics of nearly 4000 proteins during early development. <i>Scientific Reports</i> , <b>2014</b> , 4, 4365	4.9	79
147	Multiple labeling of proteins. <i>Analytical Chemistry</i> , <b>1998</b> , 70, 2493-4	7.8	79
146	Correlating cell cycle with metabolism in single cells: combination of image and metabolic cytometry. <i>Cytometry</i> , <b>1999</b> , 37, 14-20		79
145	Surface modification based on Si-O and Si-C sublayers and a series of N-substituted acrylamide top-layers for capillary electrophoresis. <i>Electrophoresis</i> , <b>1998</b> , 19, 1677-82	3.6	76
144	Chemical cytometry. <i>Current Opinion in Chemical Biology</i> , <b>2003</b> , 7, 603-8	9.7	75
143	Over 10,000 peptide identifications from the HeLa proteome by using single-shot capillary zone electrophoresis combined with tandem mass spectrometry. <i>Angewandte Chemie - International Edition</i> , <b>2014</b> , 53, 13931-3	16.4	74
142	A replaceable microreactor for on-line protein digestion in a two-dimensional capillary electrophoresis system with tandem mass spectrometry detection. <i>Journal of Chromatography A</i> , <b>2011</b> , 1218, 2007-11	4.5	73
141	Stability of capillary gels for automated sequencing of DNA. <i>Electrophoresis</i> , <b>1992</b> , 13, 475-83	3.6	72
140	Application of capillary electrophoresis with laser-induced fluorescence detection to the determination of biogenic amines and amino acids in brain microdialysate and homogenate samples. <i>Journal of Chromatography A</i> , <b>2001</b> , 914, 293-8	4.5	71
139	Low-cost laser-induced fluorescence detector for micellar capillary zone electrophoresis. <i>Journal of Chromatography A</i> , <b>1992</b> , 608, 117-120	4.5	71
138	Single Cell Proteomics Using Frog (Xenopus laevis) Blastomeres Isolated from Early Stage Embryos, Which Form a Geometric Progression in Protein Content. <i>Analytical Chemistry</i> , <b>2016</b> , 88, 6653-7	7.8	69
137	Reproducible two-dimensional capillary electrophoresis analysis of Barrett's esophagus tissues. <i>Analytical Chemistry</i> , <b>2006</b> , 78, 5977-86	7.8	69
136	Labeling effects on the isoelectric point of green fluorescent protein. <i>Journal of Chromatography A</i> , <b>1999</b> , 853, 21-5	4.5	67
135	Bottom-up proteomics of Escherichia coli using dynamic pH junction preconcentration and capillary zone electrophoresis-electrospray ionization-tandem mass spectrometry. <i>Analytical Chemistry</i> , <b>2014</b> , 86, 6331-6	7.8	64

134	Cell cycle-dependent protein fingerprint from a single cancer cell: image cytometry coupled with single-cell capillary sieving electrophoresis. <i>Analytical Chemistry</i> , <b>2003</b> , 75, 3495-501	7.8	64
133	Detection of Attomolar Concentrations of Alkaline Phosphatase by Capillary Electrophoresis Using Laser-Induced Fluorescence Detection. <i>Analytical Chemistry</i> , <b>1996</b> , 68, 697-700	7.8	63
132	Capillary sodium dodecyl sulfate-DALT electrophoresis with laser-induced fluorescence detection for size-based analysis of proteins in human colon cancer cells. <i>Electrophoresis</i> , <b>2002</b> , 23, 3136-42	3.6	59
131	Attachment of a single fluorescent label to peptides for determination by capillary zone electrophoresis. <i>Journal of Chromatography A</i> , <b>1992</b> , 608, 239-42	4.5	59
130	Obesity Contributes to Ovarian Cancer Metastatic Success through Increased Lipogenesis, Enhanced Vascularity, and Decreased Infiltration of M1 Macrophages. <i>Cancer Research</i> , <b>2015</b> , 75, 5046-57	10.1	58
129	Capillary sodium dodecyl sulfate-DALT electrophoresis of proteins in a single human cancer cell. <i>Electrophoresis</i> , <b>2001</b> , 22, 3677-82	3.6	57
128	Single-cell analysis using capillary electrophoresis: influence of surface support properties on cell injection into the capillary. <i>Electrophoresis</i> , <b>2000</b> , 21, 767-73	3.6	55
127	Two-label peak-height encoded DNA sequencing by capillary gel electrophoresis: three examples. <i>Nucleic Acids Research</i> , <b>1992</b> , 20, 4873-80	20.1	54
126	Use of a sheath flow cuvette for chemiluminescence detection of isoluminol thiocarbamyl-amino acids separated by capillary electrophoresis. <i>Journal of Separation Science</i> , <b>1993</b> , 5, 331-339		53
125	Thermally-initiated free radical polymerization for reproducible production of stable linear polyacrylamide coated capillaries, and their application to proteomic analysis using capillary zone electrophoresis-mass spectrometry. <i>Talanta</i> , <b>2016</b> , 146, 839-43	6.2	52
124	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. <i>Analytical Chemistry</i> , <b>2015</b> , 87, 4572-7	7.8	52
123	Fast top-down intact protein characterization with capillary zone electrophoresis-electrospray ionization tandem mass spectrometry. <i>Analytical Chemistry</i> , <b>2013</b> , 85, 5989-95	7.8	52
122	Fresnel diffraction theory for steady-state thermal lens measurements in thin films. <i>Journal of Applied Physics</i> , <b>1990</b> , 67, 1170-1182	2.5	52
121	Femtomolar concentration detection limit and zeptomole mass detection limit for protein separation by capillary isoelectric focusing and laser-induced fluorescence detection. <i>Analytical Chemistry</i> , <b>2009</b> , 81, 1741-6	7.8	51
120	Identification of proteins in single-cell capillary electrophoresis fingerprints based on comigration with standard proteins. <i>Analytical Chemistry</i> , <b>2003</b> , 75, 3502-5	7.8	51
119	A multiple-capillary electrophoresis system for small-scale DNA sequencing and analysis. <i>Nucleic Acids Research</i> , <b>1999</b> , 27, e36	20.1	51
118	Activation energy of the separation of DNA sequencing fragments in denaturing noncross-linked polyacrylamide by capillary electrophoresis. <i>Electrophoresis</i> , <b>1996</b> , 17, 1436-42	3.6	51
117	Detection of green fluorescent protein in a single bacterium by capillary electrophoresis with laser-induced fluorescence. <i>Analytical Chemistry</i> , <b>2007</b> , 79, 778-81	7.8	50

116	Comparison of the LTQ-Orbitrap Velos and the Q-Exactive for proteomic analysis of 1-1000 ng RAW 264.7 cell lysate digests. <i>Rapid Communications in Mass Spectrometry</i> , <b>2013</b> , 27, 157-62	2.2	49
115	Coupling capillary zone electrophoresis with electron transfer dissociation and activated ion electron transfer dissociation for top-down proteomics. <i>Analytical Chemistry</i> , <b>2015</b> , 87, 5422-9	7.8	46
114	Quantitative multiple reaction monitoring of peptide abundance introduced via a capillary zone electrophoresis-electrospray interface. <i>Analytical Chemistry</i> , <b>2012</b> , 84, 6116-21	7.8	45
113	Integrated capillary zone electrophoresis-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. <i>Analytical Chemistry</i> , <b>2013</b> , 85, 4187-94	7.8	45
112	Capillary zone electrophoresis-electrospray ionization-tandem mass spectrometry for top-down characterization of the Mycobacterium marinum secretome. <i>Analytical Chemistry</i> , <b>2014</b> , 86, 4873-8	7.8	44
111	A sheath-flow nanospray interface for capillary electrophoresis/mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , <b>2005</b> , 19, 187-92	2.2	44
110	Integrated strong cation-exchange hybrid monolith coupled with capillary zone electrophoresis and simultaneous dynamic pH junction for large-volume proteomic analysis by mass spectrometry. <i>Talanta</i> , <b>2015</b> , 138, 117-122	6.2	43
109	On-line nonaqueous capillary electrophoresis and electrospray mass spectrometry of tricyclic antidepressants and metabolic profiling of amitriptyline by <i>Cunninghamella elegans</i> . <i>Electrophoresis</i> , <b>1998</b> , 19, 3183-9	3.6	43
108	Over 2300 phosphorylated peptide identifications with single-shot capillary zone electrophoresis-tandem mass spectrometry in a 100 min separation. <i>Analytical Chemistry</i> , <b>2015</b> , 87, 9532-7	7.8	42
107	Construction and evaluation of a capillary array DNA sequencer based on a micromachined sheath-flow cuvette. <i>Electrophoresis</i> , <b>2000</b> , 21, 1329-35	3.6	42
106	The limiting mobility of DNA sequencing fragments for both cross-linked and noncross-linked polymers in capillary electrophoresis: DNA sequencing at 1200 V cm <sup>-1</sup> . <i>Electrophoresis</i> , <b>1996</b> , 17, 1037-43	3.6	41
105	Coupling Capillary Zone Electrophoresis to a Q Exactive HF Mass Spectrometer for Top-down Proteomics: 580 Proteoform Identifications from Yeast. <i>Journal of Proteome Research</i> , <b>2016</b> , 15, 3679-3685	5.6	40
104	Dual roles for ATP in the regulation of phase separated protein aggregates in oocyte nucleoli. <i>ELife</i> , <b>2018</b> , 7,	8.9	39
103	Capillary electrophoresis with Orbitrap-Velos mass spectrometry detection. <i>Talanta</i> , <b>2012</b> , 88, 324-9	6.2	39
102	Automated enzyme-based diagonal capillary electrophoresis: application to phosphopeptide characterization. <i>Analytical Chemistry</i> , <b>2010</b> , 82, 1564-7	7.8	39
101	Metabolic cytometry: capillary electrophoresis with two-color fluorescence detection for the simultaneous study of two glycosphingolipid metabolic pathways in single primary neurons. <i>Analytical Chemistry</i> , <b>2012</b> , 84, 2799-804	7.8	38
100	High efficiency and quantitatively reproducible protein digestion by trypsin-immobilized magnetic microspheres. <i>Journal of Chromatography A</i> , <b>2012</b> , 1220, 68-74	4.5	38
99	Nearly 1000 Protein Identifications from 50 ng of <i>Xenopus laevis</i> Zygote Homogenate Using Online Sample Preparation on a Strong Cation Exchange Monolith Based Microreactor Coupled with Capillary Zone Electrophoresis. <i>Analytical Chemistry</i> , <b>2016</b> , 88, 877-82	7.8	37

98	Formamide modified polyacrylamide gels for DNA sequencing by capillary gel electrophoresis. <i>Electrophoresis</i> , <b>1992</b> , 13, 484-6	3.6	36
97	Capillary zone electrophoresis for analysis of complex proteomes using an electrokinetically pumped sheath flow nanospray interface. <i>Proteomics</i> , <b>2014</b> , 14, 622-8	4.8	35
96	Bottom-up proteome analysis of E. coli using capillary zone electrophoresis-tandem mass spectrometry with an electrokinetic sheath-flow electrospray interface. <i>Proteomics</i> , <b>2013</b> , 13, 2546-51	4.8	35
95	Fast separation and analysis of reduced monoclonal antibodies with capillary zone electrophoresis coupled to mass spectrometry. <i>Talanta</i> , <b>2016</b> , 148, 529-33	6.2	34
94	A rapid cIEF-ESI-MS/MS method for host cell protein analysis of a recombinant human monoclonal antibody. <i>Talanta</i> , <b>2012</b> , 98, 253-6	6.2	34
93	Capillary zone electrophoresis separation and laser-induced fluorescence detection of zeptomole quantities of fluorescein thiohydantoin derivatives of amino acids. <i>Talanta</i> , <b>1992</b> , 39, 173-8	6.2	34
92	Predicting Electrophoretic Mobility of Tryptic Peptides for High-Throughput CZE-MS Analysis. <i>Analytical Chemistry</i> , <b>2017</b> , 89, 2000-2008	7.8	33
91	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. <i>Analytical Chemistry</i> , <b>2011</b> , 83, 2748-53	7.8	33
90	Attomole protein analysis by CIEF with LIF detection. <i>Electrophoresis</i> , <b>2009</b> , 30, 297-302	3.6	33
89	Biomonitoring of urinary tamoxifen and its metabolites from breast cancer patients using nonaqueous capillary electrophoresis with electrospray mass spectrometry. <i>Electrophoresis</i> , <b>2001</b> , 22, 2730-6	3.6	33
88	Migration time correction for the analysis of derivatized amino acids and oligosaccharides by micellar capillary electrochromatography. <i>Journal of Chromatography A</i> , <b>2000</b> , 869, 375-84	4.5	33
87	Solid-phase fluorescent labeling reaction of picomole amounts of insulin in very dilute solutions and their analysis by capillary electrophoresis. <i>Electrophoresis</i> , <b>1995</b> , 16, 534-40	3.6	32
86	High speed capillary zone electrophoresis-mass spectrometry via an electrokinetically pumped sheath flow interface for rapid analysis of amino acids and a protein digest. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , <b>2015</b> , 991, 53-8	3.2	31
85	Capillary zone electrophoresis-mass spectrometry for bottom-up proteomics. <i>TrAC - Trends in Analytical Chemistry</i> , <b>2018</b> , 108, 23-37	14.6	31
84	CZE-ESI-MS/MS system for analysis of subnanogram amounts of tryptic digests of a cellular homogenate. <i>Proteomics</i> , <b>2012</b> , 12, 3013-9	4.8	31
83	Capillary zone electrophoresis for bottom-up analysis of complex proteomes. <i>Proteomics</i> , <b>2016</b> , 16, 188-98	4.8	31
82	Metabolomics of oncogene-specific metabolic reprogramming during breast cancer. <i>Cancer &amp; Metabolism</i> , <b>2018</b> , 6, 5	5.4	30
81	Two-dimensional direct-reading fluorescence spectrograph for DNA sequencing by capillary array electrophoresis. <i>Analytical Chemistry</i> , <b>2001</b> , 73, 1234-9	7.8	30



80	Manipulation of protein fingerprints during on-column fluorescent labeling: protein fingerprinting of six <i>Staphylococcus</i> species by capillary electrophoresis. <i>Electrophoresis</i> , <b>2001</b> , 22, 1127-32	3.6	29
79	On-line amino acid-based capillary isoelectric focusing-ESI-MS/MS for protein digests analysis. <i>Analytica Chimica Acta</i> , <b>2012</b> , 750, 207-11	6.6	28
78	Separation of DNA sequencing fragments at 53 bases/minute by capillary gel electrophoresis. <i>Journal of Separation Science</i> , <b>1992</b> , 4, 449-453		28
77	Capillary zone electrophoresis tandem mass spectrometry detects low concentration host cell impurities in monoclonal antibodies. <i>Electrophoresis</i> , <b>2016</b> , 37, 616-22	3.6	28
76	Sensitive and fast characterization of site-specific protein glycosylation with capillary electrophoresis coupled to mass spectrometry. <i>Talanta</i> , <b>2018</b> , 179, 22-27	6.2	28
75	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. <i>Analytical Chemistry</i> , <b>2018</b> , 90, 1222-1232	7.8	28
74	Capillary zone electrophoresis-multiple reaction monitoring from 100 pg of RAW 264.7 cell lysate digest. <i>Analyst, The</i> , <b>2013</b> , 138, 3181-8	5	27
73	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. <i>Journal of Chromatography A</i> , <b>2014</b> , 1359, 303-8	4.5	26
72	Dynamic pH junction preconcentration in capillary electrophoresis- electrospray ionization-mass spectrometry for proteomics analysis. <i>Analyst, The</i> , <b>2016</b> , 141, 5216-20	5	26
71	Evaluation of a commercial electro-kinetically pumped sheath-flow nanospray interface coupled to an automated capillary zone electrophoresis system. <i>Analytical and Bioanalytical Chemistry</i> , <b>2017</b> , 409, 1789-1795	4.4	25
70	Absolute quantitation of host cell proteins in recombinant human monoclonal antibodies with an automated CZE-ESI-MS/MS system. <i>Electrophoresis</i> , <b>2014</b> , 35, 1448-52	3.6	25
69	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. <i>Analytical Chemistry</i> , <b>2013</b> , 85, 7331-6	7.8	25
68	Six orders of magnitude dynamic range in capillary electrophoresis with ultrasensitive laser-induced fluorescence detection. <i>Talanta</i> , <b>2009</b> , 80, 744-8	6.2	25
67	Nonaqueous capillary electrophoretic separation and thermo-optical absorbance detection of five tricyclic antidepressants and metabolism of amitriptyline by <i>Cunninghamella elegans</i> . <i>Electrophoresis</i> , <b>1998</b> , 19, 3178-82	3.6	25
66	High sensitivity capillary zone electrophoresis-electrospray ionization-tandem mass spectrometry for the rapid analysis of complex proteomes. <i>Current Opinion in Chemical Biology</i> , <b>2013</b> , 17, 795-800	9.7	24
65	Capillary zone electrophoresis separation and laser-based detection of both fluorescein thiohydantoin and dimethylaminoazobenzene thiohydantoin derivatives of amino acids. <i>Electrophoresis</i> , <b>1990</b> , 11, 777-80	3.6	24
64	Sub-femtomole determination of DABSYL-amino acids with capillary zone electrophoresis separation and laser-induced thermo-optical absorbance detection. <i>Mikrochimica Acta</i> , <b>1988</b> , 96, 27-40	5.8	24
63	Over 4100 protein identifications from a <i>Xenopus laevis</i> fertilized egg digest using reversed-phase chromatographic prefractionation followed by capillary zone electrophoresis-electrospray ionization-tandem mass spectrometry analysis. <i>Proteomics</i> , <b>2016</b> , 16, 2945-2952	4.8	23

62	Simplified sheath flow cuvette design for ultrasensitive laser induced fluorescence detection in capillary electrophoresis. <i>Analyst, The</i> , <b>2012</b> , 137, 3099-101	5	23
61	Laser-based microchemical analysis. <i>Review of Scientific Instruments</i> , <b>1990</b> , 61, 3653-3668	1.7	22
60	Surface-Confined Aqueous Reversible Addition-Fragmentation Chain Transfer (SCARF) 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. <i>Analytical Chemistry</i> , <b>2017</b> , 89, 6774-6780	7.8	21
59	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. <i>Analytical Chemistry</i> , <b>2012</b> , 84, 8715-21	7.8	21
58	Capillary array isoelectric focusing with laser-induced fluorescence detection: milli-pH unit resolution and yoctomole mass detection limits in a 32-channel system. <i>Analytical and Bioanalytical Chemistry</i> , <b>2010</b> , 397, 3305-10	4.4	21
57	Production of Over 27 000 Peptide and Nearly 4400 Protein Identifications by Single-Shot Capillary-Zone Electrophoresis-Mass Spectrometry via Combination of a Very-Low-Electroosmosis Coated Capillary, a Third-Generation Electrokinetically-Pumped Sheath-Flow Nanospray Interface, and Online Enrichment with Immobilized Cationic Exchange Resin. <i>Analytical Chemistry</i> , <b>2017</b> , 89, 6781-6789	7.8	21
56	Optimization and comparison of bottom-up proteomic sample preparation for early-stage <i>Xenopus laevis</i> embryos. <i>Analytical and Bioanalytical Chemistry</i> , <b>2016</b> , 408, 4743-9	4.4	20
55	Miniaturized Filter-Aided Sample Preparation (MICRO-FASP) Method for High Throughput, Ultrasensitive Proteomics Sample Preparation Reveals Proteome Asymmetry in Embryos. <i>Analytical Chemistry</i> , <b>2020</b> , 92, 5554-5560	7.8	19
54	Accurate determination of peptide phosphorylation stoichiometry via automated diagonal capillary electrophoresis coupled with mass spectrometry: proof of principle. <i>Analytical Chemistry</i> , <b>2013</b> , 85, 10692-6	7.8	19
53	Multisegment injections improve peptide identification rates in capillary zone electrophoresis-based bottom-up proteomics. <i>Journal of Chromatography A</i> , <b>2017</b> , 1523, 123-126	4.5	19
52	CE-MALDI interface based on inkjet technology. <i>Electrophoresis</i> , <b>2009</b> , 30, 4071-4	3.6	19
51	Combating PCR Bias in Bisulfite-Based Cytosine Methylation Analysis. Betaine-Modified Cytosine Deamination PCR. <i>Analytical Chemistry</i> , <b>1998</b> , 70, 3818-3823	7.8	19
50	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. <i>Mikrochimica Acta</i> , <b>2017</b> , 184, 921-925	5.8	18
49	Detection of 1 zmol injection of angiotensin using capillary zone electrophoresis coupled to a Q-Exactive HF mass spectrometer with an electrokinetically pumped sheath-flow electrospray interface. <i>Talanta</i> , <b>2019</b> , 204, 70-73	6.2	18
48	Coupling immobilized alkaline phosphatase-based automated diagonal capillary electrophoresis to tandem mass spectrometry for phosphopeptide analysis. <i>Talanta</i> , <b>2013</b> , 116, 985-90	6.2	18
47	Sodium dodecyl sulfate-capillary electrophoresis of proteins in a sieving matrix utilizing two-spectral channel laser-induced fluorescence detection. <i>Electrophoresis</i> , <b>1998</b> , 19, 2175-8	3.6	18
46	Micellar capillary electrophoresis separation and thermo-optical absorbance detection of products from manual peptide sequencing. <i>Electrophoresis</i> , <b>1994</b> , 15, 1290-4	3.6	17
45	Spatial and temporal depletion of ions from noncrosslinked denaturing polyacrylamide in capillary electrophoresis. <i>Electrophoresis</i> , <b>1994</b> , 15, 1512-7	3.6	17



44	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. <i>Talanta</i> , <b>2017</b> , 165, 522-525	6.2	16
43	Comprehensive analysis of host cell impurities in monoclonal antibodies with improved sensitivity by capillary zone electrophoresis mass spectrometry. <i>Electrophoresis</i> , <b>2017</b> , 38, 401-407	3.6	16
42	Nicked-sleeve interface for two-dimensional capillary electrophoresis. <i>Analyst, The</i> , <b>2013</b> , 138, 3621-5	5	16
41	Repeatability of chemical cytometry: 2-DE analysis of single RAW 264.7 macrophage cells. <i>Electrophoresis</i> , <b>2007</b> , 28, 2308-13	3.6	16
40	Simplified capillary isoelectric focusing with chemical mobilization for intact protein analysis. <i>Journal of Separation Science</i> , <b>2017</b> , 40, 948-953	3.4	15
39	Stable, reproducible, and automated capillary zone electrophoresis-tandem mass spectrometry system with an electrokinetically pumped sheath-flow nanospray interface. <i>Analytica Chimica Acta</i> , <b>2014</b> , 810, 94-8	6.6	15
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