

Peter Nemes

List of Publications by Year in descending order

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67
papers

4,483
citations

134610

34
h-index

139680

61
g-index

70
all docs

70
docs citations

70
times ranked

3913
citing authors

#	ARTICLE	IF	CITATIONS
1	Capillary Electrophoresis Mass Spectrometry for Scalable Single-Cell Proteomics. <i>Frontiers in Chemistry</i> , 2022, 10, 863979.	1.8	15
2	Patch-Clamp Proteomics of Single Neurons in Tissue Using Electrophysiology and Subcellular Capillary Electrophoresis Mass Spectrometry. <i>Analytical Chemistry</i> , 2022, 94, 1637-1644.	3.2	20
3	Cell-Lineage Guided Mass Spectrometry Proteomics in the Developing (Frog) Embryo. <i>Journal of Visualized Experiments</i> , 2022, , .	0.2	2
4	Microanalysis of Brain Angiotensin Peptides Using Ultrasensitive Capillary Electrophoresis Trapped Ion Mobility Mass Spectrometry. <i>Analytical Chemistry</i> , 2022, 94, 9018-9025.	3.2	11
5	In Vivo Subcellular Mass Spectrometry Enables Proteoâ€Metabolomic Singleâ€Cell Systems Biology in a Chordate Embryo Developing to a Normally Behaving Tadpole (<i>X. laevis</i>)**. <i>Angewandte Chemie</i> , 2021, 133, 12962-12968.	1.6	4
6	SENPI-mediated deSUMOylation of JAK2 regulates its kinase activity and platinum drug resistance. <i>Cell Death and Disease</i> , 2021, 12, 341.	2.7	13
7	Altering metabolite distribution at <i>Xenopus</i> cleavage stages affects leftâ€right gene expression asymmetries. <i>Genesis</i> , 2021, 59, e23418.	0.8	6
8	In Vivo Subcellular Mass Spectrometry Enables Proteoâ€Metabolomic Singleâ€Cell Systems Biology in a Chordate Embryo Developing to a Normally Behaving Tadpole (<i>X. laevis</i>)**. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 12852-12858.	7.2	47
9	Frontispiz: In Vivo Subcellular Mass Spectrometry Enables Proteoâ€Metabolomic Singleâ€Cell Systems Biology in a Chordate Embryo Developing to a Normally Behaving Tadpole (<i>X. laevis</i>). <i>Angewandte Chemie</i> , 2021, 133, .	1.6	0
10	Frontispiece: In Vivo Subcellular Mass Spectrometry Enables Proteoâ€Metabolomic Singleâ€Cell Systems Biology in a Chordate Embryo Developing to a Normally Behaving Tadpole (<i>X. laevis</i>). <i>Angewandte Chemie - International Edition</i> , 2021, 60, .	7.2	0
11	Mass spectrometry based proteomics for developmental neurobiology in the amphibian <i>Xenopus laevis</i> . <i>Current Topics in Developmental Biology</i> , 2021, 145, 205-231.	1.0	4
12	Mass spectrometry comes of age for subcellular organelles. <i>Nature Methods</i> , 2021, 18, 1157-1158.	9.0	10
13	Data-Dependent Acquisition Ladder for Capillary Electrophoresis Mass Spectrometry-Based Ultrasensitive (Neuro)Proteomics. <i>Analytical Chemistry</i> , 2021, 93, 15964-15972.	3.2	18
14	Capillary Electrophoresis-Mass Spectrometry at Trial by Metabo-Ring: Effective Electrophoretic Mobility for Reproducible and Robust Compound Annotation. <i>Analytical Chemistry</i> , 2020, 92, 14103-14112.	3.2	44
15	Single-cell proteomics in complex tissues using microprobe capillary electrophoresis mass spectrometry. <i>Methods in Enzymology</i> , 2019, 628, 263-292.	0.4	21
16	Deciphering Metabolic Heterogeneity by Single-Cell Analysis. <i>Analytical Chemistry</i> , 2019, 91, 13314-13323.	3.2	87
17	Dual cationicâ€anionic profiling of metabolites in a single identified cell in a live <i>Xenopus laevis</i> embryo by microprobe CE-ESI-MS. <i>Analyst</i> , 2019, 144, 892-900.	1.7	45
18	Microsampling Capillary Electrophoresis Mass Spectrometry Enables Single-Cell Proteomics in Complex Tissues: Developing Cell Clones in Live <i>Xenopus laevis</i> and Zebrafish Embryos. <i>Analytical Chemistry</i> , 2019, 91, 4797-4805.	3.2	97

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19	A microanalytical capillary electrophoresis mass spectrometry assay for quantifying angiotensin peptides in the brain. <i>Analytical and Bioanalytical Chemistry</i> , 2019, 411, 4661-4671.	1.9	27
20	Trace, Machine Learning of Signal Images for Trace-Sensitive Mass Spectrometry: A Case Study from Single-Cell Metabolomics. <i>Analytical Chemistry</i> , 2019, 91, 5768-5776.	3.2	27
21	Response to Letter to the Editor regarding "A microanalytical capillary electrophoresis mass spectrometry assay for quantifying angiotensin peptides in the brain". <i>Analytical and Bioanalytical Chemistry</i> , 2019, 411, 8165-8166.	1.9	2
22	Proteomic Characterization of the Neural Ectoderm Fated Cell Clones in the <i>Xenopus laevis</i> Embryo by High-Resolution Mass Spectrometry. <i>ACS Chemical Neuroscience</i> , 2018, 9, 2064-2073.	1.7	19
23	Enhanced Peptide Detection Toward Single-Neuron Proteomics by Reversed-Phase Fractionation Capillary Electrophoresis Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2018, 29, 913-922.	1.2	34
24	Inferring Mechanism of Action of an Unknown Compound from Time Series Omics Data. <i>Lecture Notes in Computer Science</i> , 2018, , 238-255.	1.0	3
25	New-generation mass spectrometry expands the toolbox of cell and developmental biology. <i>Genesis</i> , 2017, 55, e23012.	0.8	19
26	In Situ Microprobe Single-Cell Capillary Electrophoresis Mass Spectrometry: Metabolic Reorganization in Single Differentiating Cells in the Live Vertebrate (<i>Xenopus laevis</i>) Embryo. <i>Analytical Chemistry</i> , 2017, 89, 7069-7076.	3.2	110
27	Metabolic comparison of dorsal versus ventral cells directly in the live 8-cell frog embryo by microprobe single-cell CE-ESI-MS. <i>Analytical Methods</i> , 2017, 9, 4964-4970.	1.3	38
28	Tapered-Tip Capillary Electrophoresis Nano-Electrospray Ionization Mass Spectrometry for Ultrasensitive Proteomics: the Mouse Cortex. <i>Journal of the American Society for Mass Spectrometry</i> , 2017, 28, 597-607.	1.2	53
29	Microprobe Capillary Electrophoresis Mass Spectrometry for Single-cell Metabolomics in Live Frog (<i>Xenopus laevis</i>) Embryos. <i>Journal of Visualized Experiments</i> , 2017, , .	0.2	11
30	High-Sensitivity Mass Spectrometry for Probing Gene Translation in Single Embryonic Cells in the Early Frog (<i>Xenopus</i>) Embryo. <i>Frontiers in Cell and Developmental Biology</i> , 2016, 4, 100.	1.8	19
31	Single-Cell Mass Spectrometry for Discovery Proteomics: Quantifying Translational Cell Heterogeneity in the 16-Cell Frog (<i>Xenopus</i>) Embryo. <i>Angewandte Chemie</i> , 2016, 128, 2500-2504.	1.6	20
32	Label-free Quantification of Proteins in Single Embryonic Cells with Neural Fate in the Cleavage-Stage Frog (<i>Xenopus laevis</i>) Embryo using Capillary Electrophoresis Electrospray Ionization High-Resolution Mass Spectrometry (CE-ESI-HRMS). <i>Molecular and Cellular Proteomics</i> , 2016, 15, 2756-2768.	2.5	70
33	Single-cell mass spectrometry with multi-solvent extraction identifies metabolic differences between left and right blastomeres in the 8-cell frog (<i>Xenopus</i>) embryo. <i>Analyst</i> , 2016, 141, 3648-3656.	1.7	76
34	Single-Cell Mass Spectrometry for Discovery Proteomics: Quantifying Translational Cell Heterogeneity in the 16-Cell Frog (<i>Xenopus</i>) Embryo. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 2454-2458.	7.2	188
35	Microprobe MS Imaging of Live Tissues, Cells, and Bacterial Colonies Using LAESI. , 2016, , 149-167.		4
36	Quantification of plant surface metabolites by matrix-assisted laser desorption/ionization mass spectrometry imaging: glucosinolates on <i>Rabidopsis thaliana</i> leaves. <i>Plant Journal</i> , 2015, 81, 961-972.	2.8	68

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37	Single-cell mass spectrometry reveals small molecules that affect cell fates in the 16-cell embryo. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 6545-6550.	3.3	174
38	One-Hour Screening of Adulterated Heparin by Simplified Peroxide Digestion and Fast RPIP-LC-MS ² . Analytical Chemistry, 2015, 87, 8424-8432.	3.2	7
39	Ambient molecular imaging by laser ablation electrospray ionization mass spectrometry with ion mobility separation. International Journal of Mass Spectrometry, 2015, 377, 681-689.	0.7	53
40	Biomolecular Imaging with a C60-SIMS/MALDI Dual Ion Source Hybrid Mass Spectrometer: Instrumentation, Matrix Enhancement, and Single Cell Analysis. Journal of the American Society for Mass Spectrometry, 2014, 25, 1897-1907.	1.2	61
41	Mass Spectrometry-Based Methodologies for Single-Cell Metabolite Detection and Identification. , 2013, , 119-139.		2
42	Qualitative and quantitative metabolomic investigation of single neurons by capillary electrophoresis electrospray ionization mass spectrometry. Nature Protocols, 2013, 8, 783-799.	5.5	116
43	Combining Small-Volume Metabolomic and Transcriptomic Approaches for Assessing Brain Chemistry. Analytical Chemistry, 2013, 85, 3136-3143.	3.2	24
44	High-Throughput Differentiation of Heparin from Other Glycosaminoglycans by Pyrolysis Mass Spectrometry. Analytical Chemistry, 2013, 85, 7405-7412.	3.2	18
45	Internal energy deposition and ion fragmentation in atmospheric-pressure mid-infrared laser ablation electrospray ionization. Physical Chemistry Chemical Physics, 2012, 14, 2501.	1.3	41
46	Single-Cell Metabolomics: Changes in the Metabolome of Freshly Isolated and Cultured Neurons. ACS Chemical Neuroscience, 2012, 3, 782-792.	1.7	67
47	Ambient mass spectrometry for in vivo local analysis and in situ molecular tissue imaging. TrAC - Trends in Analytical Chemistry, 2012, 34, 22-34.	5.8	120
48	Profiling metabolites and peptides in single cells. Nature Methods, 2011, 8, S20-S29.	9.0	311
49	Metabolic Differentiation of Neuronal Phenotypes by Single-cell Capillary Electrophoresis- Electro spray Ionization-Mass Spectrometry. Analytical Chemistry, 2011, 83, 6810-6817.	3.2	128
50	Atmospheric-pressure Molecular Imaging of Biological Tissues and Biofilms by LAESI Mass Spectrometry. Journal of Visualized Experiments, 2010, , .	0.2	16
51	Ablation and analysis of small cell populations and single cells by consecutive laser pulses. Applied Physics A: Materials Science and Processing, 2010, 101, 121-126.	1.1	36
52	Laser Ablation Electrospray Ionization for Atmospheric Pressure Molecular Imaging Mass Spectrometry. Methods in Molecular Biology, 2010, 656, 159-171.	0.4	33
53	Simultaneous Imaging of Small Metabolites and Lipids in Rat Brain Tissues at Atmospheric Pressure by Laser Ablation Electrospray Ionization Mass Spectrometry. Analytical Chemistry, 2010, 82, 982-988.	3.2	198
54	Direct analysis of lipids and small metabolites in mouse brain tissue by AP IR-MALDI and reactive LAESI mass spectrometry. Analyst, The, 2010, 135, 751.	1.7	90

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55	Three-Dimensional Imaging of Metabolites in Tissues under Ambient Conditions by Laser Ablation Electrospray Ionization Mass Spectrometry. <i>Analytical Chemistry</i> , 2009, 81, 6668-6675.	3.2	205
56	Molecular imaging by Mid-IR laser ablation mass spectrometry. <i>Applied Physics A: Materials Science and Processing</i> , 2008, 93, 885-891.	1.1	47
57	Ambient Molecular Imaging and Depth Profiling of Live Tissue by Infrared Laser Ablation Electrospray Ionization Mass Spectrometry. <i>Analytical Chemistry</i> , 2008, 80, 4575-4582.	3.2	228
58	Conformational and Noncovalent Complexation Changes in Proteins during Electrospray Ionization. <i>Analytical Chemistry</i> , 2008, 80, 387-395.	3.2	35
59	Astable regime in electrosprays. <i>Physical Review E</i> , 2007, 76, 026320.	0.8	59
60	Laser Ablation Electrospray Ionization for Atmospheric Pressure, in Vivo, and Imaging Mass Spectrometry. <i>Analytical Chemistry</i> , 2007, 79, 8098-8106.	3.2	743
61	Spraying Mode Effect on Droplet Formation and Ion Chemistry in Electrosprays. <i>Analytical Chemistry</i> , 2007, 79, 3105-3116.	3.2	151
62	Order-Chaos-Order Transitions in Electrosprays: The Electrified Dripping Faucet. <i>Physical Review Letters</i> , 2006, 97, 064502.	2.9	61
63	How much charge is there on a pulsating Taylor cone?. <i>Applied Physics Letters</i> , 2006, 89, 064104.	1.5	48
64	Amino acid cluster formation studied by electrospray ionization mass spectrometry. <i>Journal of Mass Spectrometry</i> , 2005, 40, 43-49.	0.7	65
65	Tandem Sonogashira Coupling: An Efficient Tool for the Synthesis of Diarylalkynes.. <i>ChemInform</i> , 2005, 36, no.	0.1	0
66	Tandem Sonogashira Coupling: An Efficient Tool for the Synthesis of Diarylalkynes. <i>Organic Letters</i> , 2004, 6, 4917-4920.	2.4	109
67	Direct Metabolomics from Tissues and Cells: Laser Ablation Electrospray Ionization for Small Molecule and Lipid Characterization. , 0, , 140-158.		1