

# Boone M Prentice

## List of Publications by Citations

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44  
papers

879  
citations

19  
h-index

28  
g-index

48  
ext. papers

1,083  
ext. citations

5.2  
avg, IF

4.6  
L-index

#	Paper	IF	Citations
44	Electrospray droplet exposure to gaseous acids for the manipulation of protein charge state distributions. <i>Analytical Chemistry</i> , <b>2010</b> , 82, 7422-9	7.8	77
43	The innate immune protein calprotectin promotes <i>Pseudomonas aeruginosa</i> and <i>Staphylococcus aureus</i> interaction. <i>Nature Communications</i> , <b>2016</b> , 7, 11951	17.4	70
42	High-speed MALDI MS/MS imaging mass spectrometry using continuous raster sampling. <i>Journal of Mass Spectrometry</i> , <b>2015</b> , 50, 703-10	2.2	59
41	Absolute Quantification of Rifampicin by MALDI Imaging Mass Spectrometry Using Multiple TOF/TOF Events in a Single Laser Shot. <i>Journal of the American Society for Mass Spectrometry</i> , <b>2017</b> , 28, 136-144	3.5	44
40	Integrated molecular imaging reveals tissue heterogeneity driving host-pathogen interactions. <i>Science Translational Medicine</i> , <b>2018</b> , 10,	17.5	39
39	Gas-phase ion/ion reactions of peptides and proteins: acid/base, redox, and covalent chemistries. <i>Chemical Communications</i> , <b>2013</b> , 49, 947-65	5.8	39
38	Accumulation of long-chain fatty acids in the tumor microenvironment drives dysfunction in intrapancreatic CD8+ T cells. <i>Journal of Experimental Medicine</i> , <b>2020</b> , 217,	16.6	37
37	Photoactive Chromium(III)Cyclam Complexes with Axially Bound geminal-Diethynylethenes. <i>European Journal of Inorganic Chemistry</i> , <b>2012</b> , 2012, 5616-5620	2.3	34
36	Dipolar DC collisional activation in a stretchedB-D ion trap: the effect of higher order fields on rf-heating. <i>Journal of the American Society for Mass Spectrometry</i> , <b>2012</b> , 23, 736-44	3.5	27
35	Enhanced Ion Transmission Efficiency up to m/z 24 000 for MALDI Protein Imaging Mass Spectrometry. <i>Analytical Chemistry</i> , <b>2018</b> , 90, 5090-5099	7.8	26
34	Diruthenium(III,III) bis(alkynyl) compounds with donor/acceptor-substituted geminal-diethynylethene ligands. <i>Inorganic Chemistry</i> , <b>2012</b> , 51, 3261-9	5.1	26
33	Adaptation of a 3-D quadrupole ion trap for dipolar DC collisional activation. <i>Journal of the American Society for Mass Spectrometry</i> , <b>2011</b> , 22, 1486-92	3.5	26
32	Uncovering matrix effects on lipid analyses in MALDI imaging mass spectrometry experiments. <i>Journal of Mass Spectrometry</i> , <b>2020</b> , 55, e4491	2.2	26
31	Integrated, High-Throughput, Multiomics Platform Enables Data-Driven Construction of Cellular Responses and Reveals Global Drug Mechanisms of Action. <i>Journal of Proteome Research</i> , <b>2017</b> , 16, 1364-1375	5.6	25
30	Imaging mass spectrometry enables molecular profiling of mouse and human pancreatic tissue. <i>Diabetologia</i> , <b>2019</b> , 62, 1036-1047	10.3	23
29	Enhanced Spatially Resolved Proteomics Using On-Tissue Hydrogel-Mediated Protein Digestion. <i>Analytical Chemistry</i> , <b>2017</b> , 89, 2948-2955	7.8	22
28	Protein identification in imaging mass spectrometry through spatially targeted liquid micro-extractions. <i>Rapid Communications in Mass Spectrometry</i> , <b>2018</b> , 32, 442-450	2.2	22

27	DC Potentials Applied to an End-cap Electrode of a 3-D Ion Trap for Enhanced MS Functionality. <i>International Journal of Mass Spectrometry</i> , <b>2011</b> , 306, 114-122	1.9	21
26	Synthesis and Electronic Structure of Ru <sub>2</sub> (Xap) <sub>4</sub> (Y-gem-DEE) Type Compounds: Effect of Cross-Conjugation. <i>Inorganic Chemistry</i> , <b>2015</b> , 54, 7645-52	5.1	20
25	Gas-phase reactivity of carboxylic acid functional groups with carbodiimides. <i>Journal of the American Society for Mass Spectrometry</i> , <b>2013</b> , 24, 30-7	3.5	19
24	Electrospray droplet exposure to gaseous acids for reduction of metal counter-ions in nucleic acid ions. <i>International Journal of Mass Spectrometry</i> , <b>2011</b> , 300, 158-166	1.9	19
23	Label-free molecular imaging of the kidney. <i>Kidney International</i> , <b>2017</b> , 92, 580-598	9.9	16
22	Structural elucidation of phosphatidylcholines from tissue using electron induced dissociation. <i>International Journal of Mass Spectrometry</i> , <b>2020</b> , 452, 116338	1.9	15
21	Selective Covalent Chemistry via Gas-Phase Ion/ion Reactions: An Exploration of the Energy Surfaces Associated with N-Hydroxysuccinimide Ester Reagents and Primary Amines and Guanidine Groups. <i>Journal of the American Society for Mass Spectrometry</i> , <b>2016</b> , 27, 1089-98	3.5	12
20	Selective removal of alkali metal cations from multiply-charged ions via gas-phase ion/ion reactions using weakly coordinating anions. <i>Journal of the American Society for Mass Spectrometry</i> , <b>2015</b> , 26, 404-14	3.5	11
19	The Need for Speed in Matrix-Assisted Laser Desorption/Ionization Imaging Mass Spectrometry. <i>Postdoc Journal</i> , <b>2016</b> , 4, 3-13		11
18	Ion/ion reactions with "onium" reagents: an approach for the gas-phase transfer of organic cations to multiply-charged anions. <i>Journal of the American Society for Mass Spectrometry</i> , <b>2015</b> , 26, 818-25	3.5	10
17	Identification of Phosphatidylcholine Isomers in Imaging Mass Spectrometry Using Gas-Phase Charge Inversion Ion/Ion Reactions. <i>Analytical Chemistry</i> , <b>2020</b> , 92, 13192-13201	7.8	10
16	Multiple Time-of-Flight/Time-of-Flight Events in a Single Laser Shot for Improved Matrix-Assisted Laser Desorption/Ionization Tandem Mass Spectrometry Quantification. <i>Analytical Chemistry</i> , <b>2016</b> , 88, 9780-9788	7.8	10
15	Bioanalytical method development and validation of corynantheidine, a kratom alkaloid, using UPLC-MS/MS, and its application to preclinical pharmacokinetic studies. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>2020</b> , 180, 113019	3.5	9
14	Multiple TOF/TOF Events in a Single Laser Shot for Multiplexed Lipid Identifications in MALDI Imaging Mass Spectrometry. <i>International Journal of Mass Spectrometry</i> , <b>2019</b> , 437, 30-37	1.9	8
13	Strategies for generating peptide radical cations via ion/ion reactions. <i>Journal of Mass Spectrometry</i> , <b>2015</b> , 50, 418-26	2.2	8
12	Analysis of high mass-to-charge ions in a quadrupole ion trap mass spectrometer via an end-cap quadrupolar direct current downscan. <i>Analytical Chemistry</i> , <b>2012</b> , 84, 7562-9	7.8	8
11	Perspective on Emerging Mass Spectrometry Technologies for Comprehensive Lipid Structural Elucidation. <i>Analytical Chemistry</i> , <b>2021</b> , 93, 6311-6322	7.8	8
10	Strategies for the Gas Phase Modification of Cationized Arginine via Ion/ion Reactions. <i>International Journal of Mass Spectrometry</i> , <b>2013</b> , 354-355,	1.9	7

9	Standard Reticle Slide To Objectively Evaluate Spatial Resolution and Instrument Performance in Imaging Mass Spectrometry. <i>Analytical Chemistry</i> , <b>2016</b> , 88, 7302-11	7.8	7
8	Reagent cluster anions for multiple gas-phase covalent modifications of peptide and protein cations. <i>Journal of the American Society for Mass Spectrometry</i> , <b>2013</b> , 24, 1045-52	3.5	6
7	Laser-Induced Acoustic Desorption/Electron Ionization of Amino Acids and Small Peptides. <i>Journal of the American Society for Mass Spectrometry</i> , <b>2017</b> , 28, 1091-1098	3.5	5
6	New Diruthenium Bis-alkynyl Compounds as Potential Ditopic Linkers. <i>Organometallics</i> , <b>2013</b> , 32, 6461-6467	3.6	4
5	Dynamic Range Expansion by Gas-Phase Ion Fractionation and Enrichment for Imaging Mass Spectrometry. <i>Analytical Chemistry</i> , <b>2020</b> , 92, 13092-13100	7.8	4
4	A method for isolating ions in quadrupole ion traps using an excitation waveform generated by frequency modulation and mixing. <i>International Journal of Mass Spectrometry</i> , <b>2015</b> , 377, 329-337	1.9	3
3	Investigation of the Use of Cucumis sativus for Remediation of Chromium from Contaminated Environmental Matrices. An Interdisciplinary Instrumental Analysis Project. <i>Journal of Chemical Education</i> , <b>2009</b> , 86, 1095	2.4	2
2	The Use of Multiple Fragmentation Events in a Single Laser Shot for Improved Drug Quantification by MALDI TOF/TOF Mass Spectrometry. <i>NATO Science for Peace and Security Series A: Chemistry and Biology</i> , <b>2017</b> , 269-276	0.1	
1	Gas-Phase Ion-Ion Reactions for Lipid Identification in Biological Tissue Sections.. <i>Methods in Molecular Biology</i> , <b>2022</b> , 2437, 3-19	1.4	