

Jeffery M Brown

List of Publications by Year in descending order

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47
papers

1,525
citations

257450

24
h-index

315739

38
g-index

51
all docs

51
docs citations

51
times ranked

1504
citing authors

#	ARTICLE	IF	CITATIONS
1	Applications in gaseous ion and neutral chemistry using a six-sector mass spectrometer. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1992, 115, 205-218.	1.8	109
2	Gas-Phase Hydrogen/Deuterium Exchange in a Traveling Wave Ion Guide for the Examination of Protein Conformations. <i>Analytical Chemistry</i> , 2009, 81, 10019-10028.	6.5	89
3	Time-lag focusing and cation attachment in the analysis of synthetic polymers by matrix-assisted laser desorption/ionization-time-of-flight-mass spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 1997, 8, 132-139.	2.8	87
4	ETD Allows for Native Surface Mapping of a 150 kDa Noncovalent Complex on a Commercial Q-TWIMS-TOF Instrument. <i>Journal of the American Society for Mass Spectrometry</i> , 2014, 25, 343-350.	2.8	78
5	ETD in a Traveling Wave Ion Guide at Tuned Z-Spray Ion Source Conditions Allows for Site-Specific Hydrogen/Deuterium Exchange Measurements. <i>Journal of the American Society for Mass Spectrometry</i> , 2011, 22, 1784-93.	2.8	72
6	Identifying drug metallation sites on peptides using electron transfer dissociation (ETD), collision induced dissociation (CID) and ion mobility-mass spectrometry (IM-MS). <i>Chemical Communications</i> , 2010, 46, 5458.	4.1	70
7	Continuous sample deposition from reversed-phase liquid chromatography to tracks on a matrix-assisted laser desorption/ionization precoated target for the analysis of protein digests. <i>Electrophoresis</i> , 2002, 23, 3193-3204.	2.4	67
8	Site-Specific Analysis of Gas-Phase Hydrogen/Deuterium Exchange of Peptides and Proteins by Electron Transfer Dissociation. <i>Analytical Chemistry</i> , 2012, 84, 1931-1940.	6.5	61
9	Extensive Charge Reduction and Dissociation of Intact Protein Complexes Following Electron Transfer on a Quadrupole-Ion Mobility-Time-of-Flight MS. <i>Journal of the American Society for Mass Spectrometry</i> , 2015, 26, 1068-1076.	2.8	53
10	Assigning Structures to Gas-Phase Peptide Cations and Cation-Radicals. An Infrared Multiphoton Dissociation, Ion Mobility, Electron Transfer, and Computational Study of a Histidine Peptide Ion. <i>Journal of Physical Chemistry B</i> , 2012, 116, 3445-3456.	2.6	47
11	Electron impact and chemical ionization mass spectrometry of heterocumulenes produced by flash vacuum pyrolysis. <i>Rapid Communications in Mass Spectrometry</i> , 1992, 6, 249-253.	1.5	46
12	UV photodissociation of trapped ions following ion mobility separation in a Q-ToF mass spectrometer. <i>Analyst</i> , The, 2014, 139, 6348-6351.	3.5	45
13	Probing the Binding Interfaces of Protein Complexes Using Gas-Phase H/D Exchange Mass Spectrometry. <i>Structure</i> , 2016, 24, 310-318.	3.3	38
14	Ozone-induced dissociation on a traveling wave high-resolution mass spectrometer for determination of double-bond position in lipids. <i>Rapid Communications in Mass Spectrometry</i> , 2017, 31, 1415-1423.	1.5	38
15	Comprehensive Tandem-Mass-Spectrometry Coverage of Complex Samples Enabled by Data-Set-Dependent Acquisition. <i>Analytical Chemistry</i> , 2018, 90, 8020-8027.	6.5	35
16	Initial Protein Unfolding Events in Ubiquitin, Cytochrome c and Myoglobin Are Revealed with the Use of 213 nm UVPD Coupled to IM-MS. <i>Journal of the American Society for Mass Spectrometry</i> , 2019, 30, 24-33.	2.8	35
17	Top-Down Characterization of Denatured Proteins and Native Protein Complexes Using Electron Capture Dissociation Implemented within a Modified Ion Mobility-Mass Spectrometer. <i>Analytical Chemistry</i> , 2020, 92, 3674-3681.	6.5	35
18	Simple Setup for Gas-Phase H/D Exchange Mass Spectrometry Coupled to Electron Transfer Dissociation and Ion Mobility for Analysis of Polypeptide Structure on a Liquid Chromatographic Time Scale. <i>Analytical Chemistry</i> , 2014, 86, 11868-11876.	6.5	34

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19	Use of Ultraviolet Photodissociation Coupled with Ion Mobility Mass Spectrometry To Determine Structure and Sequence from Drift Time Selected Peptides and Proteins. <i>Analytical Chemistry</i> , 2016, 88, 9964-9971.	6.5	34
20	Tuning a High Transmission Ion Guide to Prevent Gas-Phase Proton Exchange During H/D Exchange MS Analysis. <i>Journal of the American Society for Mass Spectrometry</i> , 2016, 27, 662-668.	2.8	34
21	UV Photodissociation Mass Spectrometry Accurately Localize Sites of Backbone Deuteration in Peptides. <i>Analytical Chemistry</i> , 2018, 90, 1077-1080.	6.5	32
22	Investigation and optimization of parameters affecting the multiply charged ion yield in AP-MALDI MS. <i>Methods</i> , 2016, 104, 11-20.	3.8	31
23	Advancing Liquid Atmospheric Pressure Matrix-Assisted Laser Desorption/Ionization Mass Spectrometry Toward Ultrahigh-Throughput Analysis. <i>Analytical Chemistry</i> , 2020, 92, 2931-2936.	6.5	29
24	Electron transfer with no dissociation ion mobility mass spectrometry (ETnoD IM-MS). The effect of charge reduction on protein conformation. <i>International Journal of Mass Spectrometry</i> , 2017, 413, 43-51.	1.5	27
25	Tandem Mass Spectrometry in Combination with Product Ion Mobility for the Identification of Phospholipids. <i>Analytical Chemistry</i> , 2017, 89, 916-921.	6.5	26
26	Gas-phase structures of phosphopeptide ions: A difficult case. <i>International Journal of Mass Spectrometry</i> , 2013, 354-355, 249-256.	1.5	24
27	Electron transfer dissociation of sodium cationized polyesters: Reaction time effects and combination with collisional activation and ion mobility separation. <i>International Journal of Mass Spectrometry</i> , 2015, 378, 303-311.	1.5	22
28	Characterization of top-down ETD in a travelling-wave ion guide. <i>Methods</i> , 2015, 89, 22-29.	3.8	21
29	Extended Gas-Phase Trapping Followed by Surface-Induced Dissociation of Noncovalent Protein Complexes. <i>Analytical Chemistry</i> , 2016, 88, 1218-1221.	6.5	21
30	Characterisation of glycoproteins using a quadrupole time-of-flight mass spectrometer configured for electron transfer dissociation. <i>Rapid Communications in Mass Spectrometry</i> , 2013, 27, 2383-2390.	1.5	20
31	Method of Atmospheric Pressure Charge Stripping for Electrospray Ionization Mass Spectrometry and Its Application for the Analysis of Large Poly(Ethylene Glycol)s. <i>Analytical Chemistry</i> , 2014, 86, 9644-9652.	6.5	20
32	Ultrahigh-Throughput Sample Analysis Using Liquid Atmospheric Pressure Matrix-Assisted Laser Desorption/Ionization Mass Spectrometry. <i>Analytical Chemistry</i> , 2022, 94, 4141-4145.	6.5	17
33	Probing the Dissociation of Protein Complexes by Means of Gas-Phase H/D Exchange Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2019, 30, 45-57.	2.8	16
34	Changes in protein structure monitored by use of gas-phase hydrogen/deuterium exchange. <i>Proteomics</i> , 2015, 15, 2842-2850.	2.2	12
35	Protein identification using a nanoUHPLC-AP-MALDI MS/MS workflow with CID of multiply charged proteolytic peptides. <i>International Journal of Mass Spectrometry</i> , 2017, 416, 20-28.	1.5	12
36	On-the-Fly Femtosecond Action Spectroscopy of Charged Cyanine Dyes: Electronic Structure versus Geometry. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 2300-2305.	4.6	12

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37	Coupling 193 nm Ultraviolet Photodissociation and Ion Mobility for Sequence Characterization of Conformationally-Selected Peptides. <i>Journal of the American Society for Mass Spectrometry</i> , 2020, 31, 2313-2320.	2.8	12
38	Tandem Mass Spectrometry Using the Atmospheric Pressure Electron Capture Dissociation Ion Source. <i>Analytical Chemistry</i> , 2014, 86, 4439-4446.	6.5	10
39	Dueling electrospray implemented on a traveling-wave ion mobility/time-of-flight mass spectrometer: Towards a gas-phase workbench for structural biology. <i>International Journal of Mass Spectrometry</i> , 2019, 444, 116177.	1.5	10
40	A parallel approach to post source decay MALDI-TOF analysis. <i>Journal of the American Society for Mass Spectrometry</i> , 2006, 17, 60-66.	2.8	9
41	Electron Transfer Dissociation of All Ions at All Times, MSETD, in a Quadrupole Time-of-Flight (Q-ToF) Mass Spectrometer. <i>Journal of the American Society for Mass Spectrometry</i> , 2017, 28, 384-388.	2.8	9
42	Production and analysis of multiply charged negative ions by liquid atmospheric pressure matrix-assisted laser desorption/ionization mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2021, 35, e8246.	1.5	9
43	Gas-Phase Ion Chemistry and Organic Chemistry: The Story of a Hybrid Six-Sector Mass Spectrometer—The “AutoSpec 6F”, <i>European Journal of Mass Spectrometry</i> , 2012, 18, 93-112.	1.0	5
44	Characterization of native protein structure with ion mobility mass spectrometry, multiplexed fragmentation strategies and multivariate analysis. <i>International Journal of Mass Spectrometry</i> , 2021, 464, 116588.	1.5	5
45	The matrix-assisted laser desorption/ionisation in-source decay of peptides using ion mobility enabled quadrupole-time-of-flight mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2018, 32, 2099-2105.	1.5	3
46	Non-ergodic fragmentation of protonated reserpine using femtosecond laser activation. <i>International Journal of Mass Spectrometry</i> , 2022, 471, 116729.	1.5	2
47	<i>In Silico</i> Reagent Design for Electron-Transfer Dissociation on a Q-TOF. <i>Journal of the American Society for Mass Spectrometry</i> , 2021, 32, 2092-2098.	2.8	1