David P A Kilgour

List of Publications by Year
in descending order

41 papers	1,122 citations	516710 16 h-index	395702 33 g-index
42 all docs	42 docs citations	42 times ranked	1264 citing authors

#	Article	IF	Citations
1	Iridium N-Heterocyclic Carbene Complexes as Efficient Catalysts for Magnetization Transfer from <i>para</i>-Hydrogen. Journal of the American Chemical Society, 2011, 133, 6134-6137.	13.7	318
2	Probing signal amplification by reversible exchange using an NMR flow system. Magnetic Resonance in Chemistry, 2014, 52, 358-369.	1.9	81
3	Autophaser: An Algorithm for Automated Generation of Absorption Mode Spectra for FT-ICR MS. Analytical Chemistry, 2013, 85, 3903-3911.	6.5	72
4	Increased throughput and ultra-high mass resolution in DESI FT-ICR MS imaging through new-generation external data acquisition system and advanced data processing approaches. Scientific Reports, 2019, 9, 8.	3.3	69
5	Structural Analysis of Monoclonal Antibodies by Ultrahigh Resolution MALDI In-Source Decay FT-ICR Mass Spectrometry. Analytical Chemistry, 2019, 91, 2079-2085.	6.5	48
6	Norharmane matrix enhances detection of endotoxin by MALDI-MS for simultaneous profiling of pathogen, host and vector systems. Pathogens and Disease, 2016, 74, .	2.0	41
7	Comprehensive glycosylation profiling of IgG and IgG-fusion proteins by top-down MS with multiple fragmentation techniques. Journal of Proteomics, 2016, 134, 93-101.	2.4	36
8	Native-MS Analysis of Monoclonal Antibody Conjugates by Fourier Transform Ion Cyclotron Resonance Mass Spectrometry. Analytical Chemistry, 2018, 90, 745-751.	6.5	36
9	Improved detection of low vapor pressure compounds in air by serial combination of single-sided membrane introduction with fiber introduction mass spectrometry (SS-MIMS-FIMS). Analyst, The, 2005, 130, 679-686.	3.5	32
10	Monitoring glycation levels of a bispecific monoclonal antibody at subunit level by ultrahigh-resolution MALDI FT-ICR mass spectrometry. MAbs, 2020, 12, 1682403.	5.2	30
11	Absorption mode Fourier transform mass spectrometry with no baseline correction using a novel asymmetric apodization function. Rapid Communications in Mass Spectrometry, 2015, 29, 1009-1018.	1.5	28
12	Differentiating Fragmentation Pathways of Cholesterol by Two-Dimensional Fourier Transform Ion Cyclotron Resonance Mass Spectrometry. Journal of the American Society for Mass Spectrometry, 2015, 26, 2105-2114.	2.8	28
13	Absorption-Mode Fourier Transform Mass Spectrometry: The Effects of Apodization and Phasing on Modified Protein Spectra. Journal of the American Society for Mass Spectrometry, 2013, 24, 828-834.	2.8	27
14	Improved optimization of the Fourier transform ion cyclotron resonance mass spectrometry phase correction function using a genetic algorithm. Rapid Communications in Mass Spectrometry, 2013, 27, 1977-1982.	1.5	24
15	Absorption Mode FTICR Mass Spectrometry Imaging. Analytical Chemistry, 2013, 85, 11180-11184.	6.5	19
16	Producing absorption mode Fourier transform ion cyclotron resonance mass spectra with non€quadratic phase correction functions. Rapid Communications in Mass Spectrometry, 2015, 29, 1087-1093.	1.5	19
17	Autopiquer - a Robust and Reliable Peak Detection Algorithm for Mass Spectrometry. Journal of the American Society for Mass Spectrometry, 2017, 28, 253-262.	2.8	18
18	Accumulation of DOC in the South Pacific Subtropical Gyre from a molecular perspective. Marine Chemistry, 2021, 231, 103955.	2.3	18

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19	Appropriate Degree of Trust: Deriving Confidence Metrics for Automatic Peak Assignment in High-Resolution Mass Spectrometry. Analytical Chemistry, 2012, 84, 7431-7435.	6.5	16
20	Use of High Resolution Mass Spectrometry for Analysis of Polymeric Excipients in Drug Delivery Formulations. Analytical Chemistry, 2012, 84, 8579-8586.	6.5	16
21	Chemical Detection Using the Receptor Density Algorithm. IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews, 2012, 42, 1730-1741.	2.9	16
22	Glycosylation characterization of therapeutic mAbs by top- and middle-down mass spectrometry. Data in Brief, 2016, 6, 68-76.	1.0	16
23	Top Down Tandem Mass Spectrometric Analysis of a Chemically Modified Rough-Type Lipopolysaccharide Vaccine Candidate. Journal of the American Society for Mass Spectrometry, 2018, 29, 1221-1229.	2.8	16
24	<scp>d</scp>-α-tocopheryl Polyethylene Glycol 1000 Succinate: A View from FTICR MS and Tandem MS. Analytical Chemistry, 2014, 86, 1567-1574.	6.5	15
25	Producing Isotopic Distribution Models for Fully Apodized Absorption Mode FT-MS. Analytical Chemistry, 2015, 87, 5797-5801.	6.5	11
26	Isotope Depletion Mass Spectrometry (ID-MS) for Accurate Mass Determination and Improved Top-Down Sequence Coverage of Intact Proteins. Journal of the American Society for Mass Spectrometry, 2020, 31, 700-710.	2.8	10
27	Study of an Unusual Advanced Glycation End-Product (AGE) Derived from Glyoxal Using Mass Spectrometry. Journal of the American Society for Mass Spectrometry, 2014, 25, 673-683.	2.8	9
28	Phase relationships in two-dimensional mass spectrometry. Journal of the American Society for Mass Spectrometry, 2019, 30, 2594-2607.	2.8	9
29	Evaluation of Sibling and Twin Fragment Ions Improves the Structural Characterization of Proteins by Top-Down MALDI In-Source Decay Mass Spectrometry. Analytical Chemistry, 2020, 92, 5871-5881.	6.5	9
30	Improved N- and C-Terminal Sequencing of Proteins by Combining Positive and Negative Ion MALDI In-Source Decay Mass Spectrometry. Analytical Chemistry, 2020, 92, 12429-12436.	6.5	7
31	Determination of Protein Thiol Reduction Potential by Isotope Labeling and Intact Mass Measurement. Analytical Chemistry, 2016, 88, 2727-2733.	6.5	5
32	Parameter Optimisation in the Receptor Density Algorithm. Lecture Notes in Computer Science, 2011, , 226-239.	1.3	5
33	Use of an Artificial Immune System Derived Method for the Charge State Assignment of Small-Molecule Mass Spectra. Analytical Chemistry, 2012, 84, 7436-7439.	6.5	4
34	Rapid Denaturing Organic Digestion Method for Targeted Protein Identification and Characterization. Analytical Chemistry, 2021, 93, 5046-5053.	6.5	4
35	Rapid Food Product Analysis by Surface Acoustic Wave Nebulization Coupled Mass Spectrometry. Food Analytical Methods, 2018, 11, 2447-2454.	2.6	3
36	An ambient detection system for visualization of charged particles generated with ionization methods at atmospheric pressure. Rapid Communications in Mass Spectrometry, 2016, 30, 352-358.	1.5	2

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37	A Light‐Activated Acyl Carrier Protein "Trap" for Intermediate Capture in Type‐II Iterative Polyketide Biocatalysis. Chemistry - A European Journal, 2019, 25, 16515-16518.	3.3	2
38	Inaugural meeting of the Rapid Communications in Mass Spectrometry Associate Editorial Board. Rapid Communications in Mass Spectrometry, 2013, 27, 2227-2228.	1.5	1
39	Perspectives on the future of mass spectrometry. Rapid Communications in Mass Spectrometry, 2019, 33, 1-2.	1.5	1
40	Crystal Structure and Hirshfeld Surface Analysis of Diethyl (6-methyl-2-pyridyl)aminoethylenemalonate. Journal of Chemical Crystallography, 2020, 50, 212-218.	1.1	1
41	Meeting announcement: MS Imaging Analysis System for Medical Applications - MIASMA. Rapid Communications in Mass Spectrometry, 2015, 29, 1185-1186.	1.5	0