

# David P A Kilgour

## List of Publications by Year in descending order

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Version: 2024-02-01

41  
papers

1,122  
citations

516681

16  
h-index

395678

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. <i>Journal of the American Chemical Society</i> , 2011, 133, 6134-6137.	13.7	318
2	Probing signal amplification by reversible exchange using an NMR flow system. <i>Magnetic Resonance in Chemistry</i> , 2014, 52, 358-369.	1.9	81
3	Autophaser: An Algorithm for Automated Generation of Absorption Mode Spectra for FT-ICR MS. <i>Analytical Chemistry</i> , 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. <i>Scientific Reports</i> , 2019, 9, 8.	3.3	69
5	Structural Analysis of Monoclonal Antibodies by Ultrahigh Resolution MALDI In-Source Decay FT-ICR Mass Spectrometry. <i>Analytical Chemistry</i> , 2019, 91, 2079-2085.	6.5	48
6	Norharmine matrix enhances detection of endotoxin by MALDI-MS for simultaneous profiling of pathogen, host and vector systems. <i>Pathogens and Disease</i> , 2016, 74, .	2.0	41
7	Comprehensive glycosylation profiling of IgG and IgG-fusion proteins by top-down MS with multiple fragmentation techniques. <i>Journal of Proteomics</i> , 2016, 134, 93-101.	2.4	36
8	Native-MS Analysis of Monoclonal Antibody Conjugates by Fourier Transform Ion Cyclotron Resonance Mass Spectrometry. <i>Analytical Chemistry</i> , 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). <i>Analyst</i> , 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. <i>MAbs</i> , 2020, 12, 1682403.	5.2	30
11	Absorption mode Fourier transform mass spectrometry with no baseline correction using a novel asymmetric apodization function. <i>Rapid Communications in Mass Spectrometry</i> , 2015, 29, 1009-1018.	1.5	28
12	Differentiating Fragmentation Pathways of Cholesterol by Two-Dimensional Fourier Transform Ion Cyclotron Resonance Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2015, 26, 2105-2114.	2.8	28
13	Absorption-Mode Fourier Transform Mass Spectrometry: The Effects of Apodization and Phasing on Modified Protein Spectra. <i>Journal of the American Society for Mass Spectrometry</i> , 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. <i>Rapid Communications in Mass Spectrometry</i> , 2013, 27, 1977-1982.	1.5	24
15	Absorption Mode FTICR Mass Spectrometry Imaging. <i>Analytical Chemistry</i> , 2013, 85, 11180-11184.	6.5	19
16	Producing absorption mode Fourier transform ion cyclotron resonance mass spectra with non-quadratic phase correction functions. <i>Rapid Communications in Mass Spectrometry</i> , 2015, 29, 1087-1093.	1.5	19
17	Autopiquer - a Robust and Reliable Peak Detection Algorithm for Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2017, 28, 253-262.	2.8	18
18	Accumulation of DOC in the South Pacific Subtropical Gyre from a molecular perspective. <i>Marine Chemistry</i> , 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. <i>Analytical Chemistry</i> , 2012, 84, 7431-7435.	6.5	16
20	Use of High Resolution Mass Spectrometry for Analysis of Polymeric Excipients in Drug Delivery Formulations. <i>Analytical Chemistry</i> , 2012, 84, 8579-8586.	6.5	16
21	Chemical Detection Using the Receptor Density Algorithm. <i>IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews</i> , 2012, 42, 1730-1741.	2.9	16
22	Glycosylation characterization of therapeutic mAbs by top- and middle-down mass spectrometry. <i>Data in Brief</i> , 2016, 6, 68-76.	1.0	16
23	Top Down Tandem Mass Spectrometric Analysis of a Chemically Modified Rough-Type Lipopolysaccharide Vaccine Candidate. <i>Journal of the American Society for Mass Spectrometry</i> , 2018, 29, 1221-1229.	2.8	16
24	<scp>d</scp>-Î±-tocopheryl Polyethylene Glycol 1000 Succinate: A View from FTICR MS and Tandem MS. <i>Analytical Chemistry</i> , 2014, 86, 1567-1574.	6.5	15
25	Producing Isotopic Distribution Models for Fully Apodized Absorption Mode FT-MS. <i>Analytical Chemistry</i> , 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. <i>Journal of the American Society for Mass Spectrometry</i> , 2020, 31, 700-710.	2.8	10
27	Study of an Unusual Advanced Glycation End-Product (AGE) Derived from Glyoxal Using Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2014, 25, 673-683.	2.8	9
28	Phase relationships in two-dimensional mass spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 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. <i>Analytical Chemistry</i> , 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. <i>Analytical Chemistry</i> , 2020, 92, 12429-12436.	6.5	7
31	Determination of Protein Thiol Reduction Potential by Isotope Labeling and Intact Mass Measurement. <i>Analytical Chemistry</i> , 2016, 88, 2727-2733.	6.5	5
32	Parameter Optimisation in the Receptor Density Algorithm. <i>Lecture Notes in Computer Science</i> , 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. <i>Analytical Chemistry</i> , 2012, 84, 7436-7439.	6.5	4
34	Rapid Denaturing Organic Digestion Method for Targeted Protein Identification and Characterization. <i>Analytical Chemistry</i> , 2021, 93, 5046-5053.	6.5	4
35	Rapid Food Product Analysis by Surface Acoustic Wave Nebulization Coupled Mass Spectrometry. <i>Food Analytical Methods</i> , 2018, 11, 2447-2454.	2.6	3
36	An ambient detection system for visualization of charged particles generated with ionization methods at atmospheric pressure. <i>Rapid Communications in Mass Spectrometry</i> , 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. <i>Chemistry - A European Journal</i> , 2019, 25, 16515-16518.	3.3	2
38	Inaugural meeting of the Rapid Communications in Mass Spectrometry Associate Editorial Board. <i>Rapid Communications in Mass Spectrometry</i> , 2013, 27, 2227-2228.	1.5	1
39	Perspectives on the future of mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2019, 33, 1-2.	1.5	1
40	Crystal Structure and Hirshfeld Surface Analysis of Diethyl (6-methyl-2-pyridyl)aminoethylenemalonate. <i>Journal of Chemical Crystallography</i> , 2020, 50, 212-218.	1.1	1
41	Meeting announcement: MS Imaging Analysis System for Medical Applications - MIASMA. <i>Rapid Communications in Mass Spectrometry</i> , 2015, 29, 1185-1186.	1.5	0