David L Marshall

List of Publications by Year
in descending order

32	948	471509 17	454955 30
papers	citations	h-index	g-index

33	33	33	1161
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Switching radical stability by pH-induced orbital conversion. Nature Chemistry, 2013, 5, 474-481.	13.6	150
2	Mass Spectrometry Imaging with Isomeric Resolution Enabled by Ozoneâ€Induced Dissociation. Angewandte Chemie - International Edition, 2018, 57, 10530-10534.	13.8	143
3	Apocryphal FADS2 activity promotes fatty acid diversification in cancer. Cell Reports, 2021, 34, 108738.	6.4	68
4	Sequential Collision- and Ozone-Induced Dissociation Enables Assignment of Relative Acyl Chain Position in Triacylglycerols. Analytical Chemistry, 2016, 88, 2685-2692.	6.5	59
5	Mapping Unsaturation in Human Plasma Lipids by Data-Independent Ozone-Induced Dissociation. Journal of the American Society for Mass Spectrometry, 2019, 30, 1621-1630.	2.8	48
6	Oxidation of 4-substituted TEMPO derivatives reveals modifications at the 1- and 4-positions. Organic and Biomolecular Chemistry, 2011, 9, 4936.	2.8	47
7	Mass spectrometry-directed structure elucidation and total synthesis of ultra-long chain (O-acyl)-ï‰-hydroxy fatty acids. Journal of Lipid Research, 2018, 59, 1510-1518.	4.2	42
8	Mapping Enzyme Activity on Tissue by Functional Mass Spectrometry Imaging. Angewandte Chemie - International Edition, 2020, 59, 3855-3858.	13.8	35
9	Determination of ester position in isomeric (Oâ€acyl)â€hydroxy fatty acids by ion trap mass spectrometry. Rapid Communications in Mass Spectrometry, 2016, 30, 2351-2359.	1.5	31
10	Introduction of a Fixed-Charge, Photolabile Derivative for Enhanced Structural Elucidation of Fatty Acids. Analytical Chemistry, 2019, 91, 9901-9909.	6.5	31
11	Mass Spectrometry Imaging with Isomeric Resolution Enabled by Ozoneâ€Induced Dissociation. Angewandte Chemie, 2018, 130, 10690-10694.	2.0	28
12	Combining Charge-Switch Derivatization with Ozone-Induced Dissociation for Fatty Acid Analysis. Journal of the American Society for Mass Spectrometry, 2019, 30, 2135-2143.	2.8	28
13	Simultaneous adsorption and degradation of 2,4-dichlorophenol on sepiolite-supported bimetallic Fe/Ni nanoparticles. Journal of Environmental Chemical Engineering, 2019, 7, 102955.	6.7	27
14	Structural identification of hindered amine light stabilisers in coil coatings using electrospray ionisation tandem mass spectrometry. Journal of Mass Spectrometry, 2010, 45, 486-495.	1.6	25
15	Next-generation derivatization reagents optimized for enhanced product ion formation in photodissociation-mass spectrometry of fatty acids. Analyst, The, 2021, 146, 156-169.	3.5	23
16	Polyselenoureas via Multicomponent Polymerizations Using Elemental Selenium as Monomer. ACS Macro Letters, 2018, 7, 898-903.	4.8	22
17	Photodissociation of TEMPO-modified peptides: new approaches to radical-directed dissociation of biomolecules. Physical Chemistry Chemical Physics, 2014, 16, 4871.	2.8	21
18	Charge-switch derivatization of fatty acid esters of hydroxy fatty acids via gas-phase ion/ion reactions. Analytica Chimica Acta, 2020, 1129, 31-39.	5.4	17

#	Article	IF	Citations
19	Experimental evidence for competitive N O and O C bond homolysis in gas-phase alkoxyamines. International Journal of Mass Spectrometry, 2015, 378, 38-47.	1.5	14
20	Phosphoproteomic Analysis across the Yeast Life Cycle Reveals Control of Fatty Acyl Chain Length by Phosphorylation of the Fatty Acid Synthase Complex. Cell Reports, 2020, 32, 108024.	6.4	14
21	Structural elucidation of hydroxy fatty acids by photodissociation mass spectrometry with photolabile derivatives. Rapid Communications in Mass Spectrometry, 2020, 34, e8741.	1.5	13
22	Gas phase reactions of iodide and bromide anions with ozone: evidence for stepwise and reversible reactions. Physical Chemistry Chemical Physics, 2020, 22, 9982-9989.	2.8	12
23	Comparing Positively and Negatively Charged Distonic Radical Ions in Phenylperoxyl Forming Reactions. Journal of the American Society for Mass Spectrometry, 2018, 29, 1848-1860.	2.8	9
24	Mapping Enzyme Activity on Tissue by Functional Mass Spectrometry Imaging. Angewandte Chemie, 2020, 132, 3883-3886.	2.0	8
25	Producing Cyclopropane Fatty Acid in Plant Leafy Biomass via Expression of Bacterial and Plant Cyclopropane Fatty Acid Synthases. Frontiers in Plant Science, 2020, 11, 30.	3.6	6
26	Stepwise reduction of interlocked viologen-based complexes in the gas phase. Chemical Communications, 2020, 56, 13575-13578.	4.1	5
27	Dynamic covalent synthesis of [2]- and [3]rotaxanes both in solution and on solid supports. New Journal of Chemistry, 2020, 44, 11231-11236.	2.8	5
28	Forensic analysis of waterâ€based lubricants using liquid extraction surface analysis highâ€resolution tandem mass spectrometry. Rapid Communications in Mass Spectrometry, 2018, 32, 1629-1636.	1.5	4
29	Experimental evidence for long-range stabilizing and destabilizing interactions between charge and radical sites in distonic ions. International Journal of Mass Spectrometry, 2019, 435, 195-203.	1.5	4
30	Hydrazone exchange: a viable route for the solid-tethered synthesis of [2]rotaxanes. New Journal of Chemistry, 2021, 45, 4414-4421.	2.8	4
31	Laser Photodissociation Action Spectroscopy for the Wavelength-Dependent Evaluation of Photoligation Reactions. Analytical Chemistry, 2021, 93, 8091-8098.	6.5	3
32	Accelerating Ozonolysis Reactions Using Supplemental RF-Activation of Ions in a Linear Ion Trap Mass Spectrometer. Analytical Chemistry, 2022, 94, 3897-3903.	6.5	2