

Todd W Mitchell

List of Publications by Year in descending order

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Version: 2024-02-01

110
papers

5,673
citations

81434

41
h-index

104191

69
g-index

116
all docs

116
docs citations

116
times ranked

6670
citing authors

#	ARTICLE	IF	CITATIONS
1	Analysis of sex-specific lipid metabolism of <i>Plasmodium falciparum</i> points to the importance of sphingomyelin for gametocytogenesis. <i>Journal of Cell Science</i> , 2022, 135, .	1.2	6
2	The long and the short of Huntington's disease: how the sphingolipid profile is shifted in the caudate of advanced clinical cases. <i>Brain Communications</i> , 2022, 4, fcab303.	1.5	10
3	Phospholipid Profiles Are Selectively Altered in the Putamen and White Frontal Cortex of Huntington's Disease. <i>Nutrients</i> , 2022, 14, 2086.	1.7	3
4	Changes in Phospholipid Composition of the Human Cerebellum and Motor Cortex during Normal Ageing. <i>Nutrients</i> , 2022, 14, 2495.	1.7	2
5	Next-generation derivatization reagents optimized for enhanced product ion formation in photodissociation-mass spectrometry of fatty acids. <i>Analyst</i> , The, 2021, 146, 156-169.	1.7	23
6	Tau Is Truncated in Five Regions of the Normal Adult Human Brain. <i>International Journal of Molecular Sciences</i> , 2021, 22, 3521.	1.8	10
7	Profiling of non-polar lipids in tears of contact lens wearers during the day. <i>Experimental Eye Research</i> , 2021, 207, 108567.	1.2	4
8	Supplementation with the omega-3 long chain polyunsaturated fatty acids: Changes in the concentrations of omega-3 index, fatty acids and molecular phospholipids of people at ultra high risk of developing psychosis. <i>Schizophrenia Research</i> , 2020, 226, 52-60.	1.1	8
9	Comparison of erythrocyte omega-3 index, fatty acids and molecular phospholipid species in people at ultra-high risk of developing psychosis and healthy people. <i>Schizophrenia Research</i> , 2020, 226, 44-51.	1.1	27
10	Cholesteryl ester levels are elevated in the caudate and putamen of Huntington's disease patients. <i>Scientific Reports</i> , 2020, 10, 20314.	1.6	18
11	Structural elucidation of hydroxy fatty acids by photodissociation mass spectrometry with photolabile derivatives. <i>Rapid Communications in Mass Spectrometry</i> , 2020, 34, e8741.	0.7	13
12	Distinct adaptations of a gametocyte ABC transporter to murine and human <i>Plasmodium</i> parasites and its incompatibility in cross-species complementation. <i>International Journal for Parasitology</i> , 2020, 50, 511-522.	1.3	4
13	Regulation of mitochondrial metabolism in murine skeletal muscle by the medium-chain fatty acid receptor Gpr84. <i>FASEB Journal</i> , 2019, 33, 12264-12276.	0.2	36
14	Introduction of a Fixed-Charge, Photolabile Derivative for Enhanced Structural Elucidation of Fatty Acids. <i>Analytical Chemistry</i> , 2019, 91, 9901-9909.	3.2	31
15	Combining Charge-Switch Derivatization with Ozone-Induced Dissociation for Fatty Acid Analysis. <i>Journal of the American Society for Mass Spectrometry</i> , 2019, 30, 2135-2143.	1.2	28
16	Relationship Between Polyunsaturated Fatty Acids and Psychopathology in the NEURAPRO Clinical Trial. <i>Frontiers in Psychiatry</i> , 2019, 10, 393.	1.3	22
17	Analytical separations for lipids in complex, nonpolar lipidomes using differential mobility spectrometry. <i>Journal of Lipid Research</i> , 2019, 60, 1968-1978.	2.0	6
18	Honeybee caste lipidomics in relation to life-history stages and the long life of the queen. <i>Journal of Experimental Biology</i> , 2019, 222, .	0.8	18

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19	Mapping Unsaturation in Human Plasma Lipids by Data-Independent Ozone-Induced Dissociation. <i>Journal of the American Society for Mass Spectrometry</i> , 2019, 30, 1621-1630.	1.2	48
20	Reaction of ionised sterol esters with ozone in the gas phase. <i>Chemistry and Physics of Lipids</i> , 2019, 221, 198-206.	1.5	9
21	Differential-Mobility Spectrometry of 1-Deoxysphingosine Isomers: New Insights into the Gas Phase Structures of Ionized Lipids. <i>Analytical Chemistry</i> , 2018, 90, 5343-5351.	3.2	31
22	Online Ozonolysis Combined with Ion Mobility-Mass Spectrometry Provides a New Platform for Lipid Isomer Analyses. <i>Analytical Chemistry</i> , 2018, 90, 1292-1300.	3.2	114
23	Distribution of Glycerophospholipids in the Adult Human Lens. <i>Biomolecules</i> , 2018, 8, 156.	1.8	5
24	A High-Throughput Method for the Analysis of Erythrocyte Fatty Acids and the Omega-3 Index. <i>Lipids</i> , 2018, 53, 1005-1015.	0.7	12
25	Increasing Acyl CoA thioesterase activity alters phospholipid profile without effect on insulin action in skeletal muscle of rats. <i>Scientific Reports</i> , 2018, 8, 13967.	1.6	7
26	Mass spectrometry-directed structure elucidation and total synthesis of ultra-long chain (O-acyl)- ω -hydroxy fatty acids. <i>Journal of Lipid Research</i> , 2018, 59, 1510-1518.	2.0	42
27	Disrupted sphingolipid metabolism following acute clozapine and olanzapine administration. <i>Journal of Biomedical Science</i> , 2018, 25, 40.	2.6	22
28	Discrimination of isobaric and isomeric lipids in complex mixtures by combining ultra-high pressure liquid chromatography with collision and ozone-induced dissociation. <i>International Journal of Mass Spectrometry</i> , 2018, 431, 27-36.	0.7	16
29	The phospholipid composition of the human entorhinal cortex remains relatively stable over 80 years of adult aging. <i>GeroScience</i> , 2017, 39, 73-82.	2.1	24
30	The cationic small molecule GW4869 is cytotoxic to high phosphatidylserine-expressing myeloma cells. <i>British Journal of Haematology</i> , 2017, 177, 423-440.	1.2	24
31	High-Pressure Ozone-Induced Dissociation for Lipid Structure Elucidation on Fast Chromatographic Timescales. <i>Analytical Chemistry</i> , 2017, 89, 4223-4229.	3.2	80
32	Association of muscle lipidomic profile with high-fat diet-induced insulin resistance across five mouse strains. <i>Scientific Reports</i> , 2017, 7, 13914.	1.6	26
33	Radical Generation from the Gas-Phase Activation of Ionized Lipid Ozonides. <i>Journal of the American Society for Mass Spectrometry</i> , 2017, 28, 1345-1358.	1.2	10
34	Advances and unresolved challenges in the structural characterization of isomeric lipids. <i>Analytical Biochemistry</i> , 2017, 524, 45-55.	1.1	77
35	A Lipidomic Analysis of Placenta in Preeclampsia: Evidence for Lipid Storage. <i>PLoS ONE</i> , 2016, 11, e0163972.	1.1	50
36	Disparate metabolic response to fructose feeding between different mouse strains. <i>Scientific Reports</i> , 2016, 5, 18474.	1.6	35

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37	Prolonged Intake of Dietary Lipids Alters Membrane Structure and T Cell Responses in LDLr ^{-/-} Mice. <i>Journal of Immunology</i> , 2016, 196, 3993-4002.	0.4	21
38	Regulation of glucose homeostasis and insulin action by ceramide acyl-chain length: A beneficial role for very long-chain sphingolipid species. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2016, 1861, 1828-1839.	1.2	66
39	Determination of ester position in isomeric (<i>O</i>-acyl)-hydroxy fatty acids by ion trap mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2016, 30, 2351-2359.	0.7	31
40	Changes in lipid composition during sexual development of the malaria parasite <i>Plasmodium falciparum</i> . <i>Malaria Journal</i> , 2016, 15, 73.	0.8	73
41	Sequential Collision- and Ozone-Induced Dissociation Enables Assignment of Relative Acyl Chain Position in Triacylglycerols. <i>Analytical Chemistry</i> , 2016, 88, 2685-2692.	3.2	59
42	Intersubject and Interday Variability in Human Tear and Meibum Lipidomes: A Pilot Study. <i>Ocular Surface</i> , 2016, 14, 43-48.	2.2	23
43	Annexin A6 regulates interleukin-2-mediated T cell proliferation. <i>Immunology and Cell Biology</i> , 2016, 94, 543-553.	1.0	26
44	Influence of Meibomian Gland Expression Methods on Human Lipid Analysis Results. <i>Ocular Surface</i> , 2016, 14, 49-55.	2.2	16
45	Separation and Identification of Phosphatidylcholine Regioisomers by Combining Liquid Chromatography with a Fusion of Collision- and Ozone-Induced Dissociation. <i>European Journal of Mass Spectrometry</i> , 2015, 21, 191-200.	0.5	19
46	Serum-Induced Keratinization Processes in an Immortalized Human Meibomian Gland Epithelial Cell Line. <i>PLoS ONE</i> , 2015, 10, e0128096.	1.1	34
47	Decreases in Phospholipids Containing Adrenic and Arachidonic Acids Occur in the Human Hippocampus over the Adult Lifespan. <i>Lipids</i> , 2015, 50, 861-872.	0.7	30
48	Dissociation of proton-bound complexes reveals geometry and arrangement of double bonds in unsaturated lipids. <i>International Journal of Mass Spectrometry</i> , 2015, 390, 170-177.	0.7	8
49	Human prefrontal cortex phospholipids containing docosahexaenoic acid increase during normal adult aging, whereas those containing arachidonic acid decrease. <i>Neurobiology of Aging</i> , 2015, 36, 1659-1669.	1.5	50
50	Combining liquid chromatography with ozone-induced dissociation for the separation and identification of phosphatidylcholine double bond isomers. <i>Analytical and Bioanalytical Chemistry</i> , 2015, 407, 5053-5064.	1.9	29
51	A rapid ambient ionization-mass spectrometry approach to monitoring the relative abundance of isomeric glycerophospholipids. <i>Scientific Reports</i> , 2015, 5, 9243.	1.6	41
52	Of mice, pigs and humans: An analysis of mitochondrial phospholipids from mammals with very different maximal lifespans. <i>Experimental Gerontology</i> , 2015, 70, 135-143.	1.2	29
53	No turnover in lens lipids for the entire human lifespan. <i>ELife</i> , 2015, 4, .	2.8	15
54	A High-Dose Shiitake Mushroom Increases Hepatic Accumulation of Triacylglycerol in Rats Fed a High-Fat Diet: Underlying Mechanism. <i>Nutrients</i> , 2014, 6, 650-662.	1.7	13

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55	Clinical and Biochemical Tear Lipid Parameters in Contact Lens Wearers. <i>Optometry and Vision Science</i> , 2014, 91, 1384-1390.	0.6	21
56	Comparison of Tear Lipid Profile among Basal, Reflex, and Flush Tear Samples. <i>Optometry and Vision Science</i> , 2014, 91, 1391-1395.	0.6	46
57	Structural characterization of glycerophospholipids by combinations of ozone- and collision-induced dissociation mass spectrometry: the next step towards "top-down" lipidomics. <i>Analyst, The</i> , 2014, 139, 204-214.	1.7	119
58	A female gametocyte-specific ABC transporter plays a role in lipid metabolism in the malaria parasite. <i>Nature Communications</i> , 2014, 5, 4773.	5.8	51
59	Characterization of acyl chain position in unsaturated phosphatidylcholines using differential mobility-mass spectrometry. <i>Journal of Lipid Research</i> , 2014, 55, 1668-1677.	2.0	100
60	Characterisation of sphingolipids in the human lens by thin layer chromatography-desorption electrospray ionisation mass spectrometry. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2014, 1841, 1285-1291.	1.2	15
61	Ozone-Induced Dissociation of Conjugated Lipids Reveals Significant Reaction Rate Enhancements and Characteristic Odd-Electron Product Ions. <i>Journal of the American Society for Mass Spectrometry</i> , 2013, 24, 286-296.	1.2	61
62	Ceramide accumulation in L6 skeletal muscle cells due to increased activity of ceramide synthase isoforms has opposing effects on insulin action to those caused by palmitate treatment. <i>Diabetologia</i> , 2013, 56, 2697-2701.	2.9	22
63	Automated surface sampling of lipids from worn contact lenses coupled with tandem mass spectrometry. <i>Analyst, The</i> , 2013, 138, 1316-1320.	1.7	26
64	An Improved High-Throughput Lipid Extraction Method for the Analysis of Human Brain Lipids. <i>Lipids</i> , 2013, 48, 307-318.	0.7	76
65	Mouse strain-dependent variation in obesity and glucose homeostasis in response to high-fat feeding. <i>Diabetologia</i> , 2013, 56, 1129-1139.	2.9	327
66	Rapid differentiation of isomeric lipids by photodissociation mass spectrometry of fatty acid derivatives. <i>Rapid Communications in Mass Spectrometry</i> , 2013, 27, 805-815.	0.7	68
67	Surface analysis of lipids by mass spectrometry: More than just imaging. <i>Progress in Lipid Research</i> , 2013, 52, 329-353.	5.3	95
68	Contrasting metabolic effects of medium- versus long-chain fatty acids in skeletal muscle. <i>Journal of Lipid Research</i> , 2013, 54, 3322-3333.	2.0	93
69	A Comparison of Patient Matched Meibum and Tear Lipidomes. , 2013, 54, 7417.		121
70	Rapid Quantification of Free Cholesterol in Tears Using Direct Insertion/Electron Ionization "Mass Spectrometry. , 2013, 54, 8027.		7
71	Time to Face the Fats: What Can Mass Spectrometry Reveal about the Structure of Lipids and Their Interactions with Proteins?. <i>Journal of the American Society for Mass Spectrometry</i> , 2012, 23, 1441-1449.	1.2	24
72	Instability of the cellular lipidome with age. <i>Age</i> , 2012, 34, 935-947.	3.0	34

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73	Using ambient ozone for assignment of double bond position in unsaturated lipids. <i>Analyst, The</i> , 2012, 137, 1100-1110.	1.7	57
74	Direct Lipid Profiling of Single Cells from Inkjet Printed Microarrays. <i>Analytical Chemistry</i> , 2012, 84, 9679-9683.	3.2	53
75	Differentiation of Complex Lipid Isomers by Radical-Directed Dissociation Mass Spectrometry. <i>Analytical Chemistry</i> , 2012, 84, 7525-7532.	3.2	135
76	Direct detection of additives and degradation products from polymers by liquid extraction surface analysis employing chip-based nanospray mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2012, 26, 412-418.	0.7	30
77	Phospholipid Peroxidation: Lack of Effect of Fatty Acid Pairing. <i>Lipids</i> , 2012, 47, 451-460.	0.7	12
78	Clinical dyslipidaemia is associated with changes in the lipid composition and inflammatory properties of apolipoprotein-B-containing lipoproteins from women with type 2 diabetes. <i>Diabetologia</i> , 2012, 55, 1156-1166.	2.9	86
79	Identification of phospholipids in human meibum by nano-electrospray ionisation tandem mass spectrometry. <i>Experimental Eye Research</i> , 2011, 92, 238-240.	1.2	59
80	Analysis of unsaturated lipids by ozone-induced dissociation. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2011, 1811, 807-817.	1.2	109
81	Fatty Acid Uptake and Incorporation into Phospholipids in the Rat Lens. , 2011, 52, 804.		3
82	The ω -3 and ω -6 fats in meals: A proposal for a simple new label. <i>Nutrition</i> , 2011, 27, 719-726.	1.1	7
83	Lipid Pathway Alterations in Parkinson's Disease Primary Visual Cortex. <i>PLoS ONE</i> , 2011, 6, e17299.	1.1	142
84	Ozone-induced dissociation on a modified tandem linear ion-trap: Observations of different reactivity for isomeric lipids. <i>Journal of the American Society for Mass Spectrometry</i> , 2010, 21, 1989-1999.	1.2	124
85	Imaging of human lens lipids by desorption electrospray ionization mass spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2010, 21, 2095-2104.	1.2	61
86	Sphingolipid distribution changes with age in the human lens. <i>Journal of Lipid Research</i> , 2010, 51, 2753-2760.	2.0	66
87	β - and γ -Crystallins Modulate the Head Group Order of Human Lens Membranes during Aging. , 2010, 51, 5162.		22
88	Detection and Quantification of Tear Phospholipids and Cholesterol in Contact Lens Deposits: The Effect of Contact Lens Material and Lens Care Solution. , 2010, 51, 2843.		66
89	The Effect of Exercise on the Skeletal Muscle Phospholipidome of Rats Fed a High-Fat Diet. <i>International Journal of Molecular Sciences</i> , 2010, 11, 3954-3964.	1.8	14
90	Saturated- and n-6 Polyunsaturated-Fat Diets Each Induce Ceramide Accumulation in Mouse Skeletal Muscle: Reversal and Improvement of Glucose Tolerance by Lipid Metabolism Inhibitors. <i>Endocrinology</i> , 2010, 151, 4187-4196.	1.4	74

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91	Advances in Mass Spectrometry for Lipidomics. Annual Review of Analytical Chemistry, 2010, 3, 433-465.	2.8	307
92	Anti-inflammatory effects of apolipoprotein A-I in the rabbit. Atherosclerosis, 2010, 212, 392-397.	0.4	74
93	Caveolin-1-dependent and -independent membrane domains. Journal of Lipid Research, 2009, 50, 1609-1620.	2.0	24
94	Identification of double bond position in lipids: From GC to OzID. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2009, 877, 2722-2735.	1.2	123
95	Identification of Abundant Alkyl Ether Glycerophospholipids in the Human Lens by Tandem Mass Spectrometry Techniques. Analytical Chemistry, 2009, 81, 1920-1930.	3.2	57
96	Tracking the Glycerophospholipid Distribution of Docosahexaenoic Acid by Shotgun Lipidomics. Methods in Molecular Biology, 2009, 579, 19-31.	0.4	2
97	OnLine Ozonolysis Methods for the Determination of Double Bond Position in Unsaturated Lipids. Methods in Molecular Biology, 2009, 579, 413-441.	0.4	27
98	Phospholipid composition of the rat lens is independent of diet. Experimental Eye Research, 2008, 87, 502-514.	1.2	29
99	Human lens lipids differ markedly from those of commonly used experimental animals. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2008, 1781, 288-298.	1.2	142
100	Ozone-Induced Dissociation: Elucidation of Double Bond Position within Mass-Selected Lipid Ions. Analytical Chemistry, 2008, 80, 303-311.	3.2	306
101	Systematic differences in membrane acyl composition associated with varying body mass in mammals occur in all phospholipid classes: an analysis of kidney and brain. Journal of Experimental Biology, 2008, 211, 3195-3204.	0.8	19
102	Differences in membrane acyl phospholipid composition between an endothermic mammal and an ectothermic reptile are not limited to any phospholipid class. Journal of Experimental Biology, 2007, 210, 3440-3450.	0.8	27
103	Elucidation of Double Bond Position in Unsaturated Lipids by Ozone Electrospray Ionization Mass Spectrometry. Analytical Chemistry, 2007, 79, 5013-5022.	3.2	153
104	Membrane phospholipid composition may contribute to exceptional longevity of the naked mole-rat (<i>Heterocephalus glaber</i>): A comparative study using shotgun lipidomics. Experimental Gerontology, 2007, 42, 1053-1062.	1.2	146
105	Dilinoleoyl-phosphatidic acid mediates reduced IRS-1 tyrosine phosphorylation in rat skeletal muscle cells and mouse muscle. Diabetologia, 2007, 50, 1732-1742.	2.9	22
106	Ozonolysis of Phospholipid Double Bonds during Electrospray Ionization: A New Tool for Structure Determination. Journal of the American Chemical Society, 2006, 128, 58-59.	6.6	140
107	A comparison of the gas phase acidities of phospholipid headgroups: Experimental and computational studies. Journal of the American Society for Mass Spectrometry, 2005, 16, 926-939.	1.2	45
108	Tandem mass spectrometry of deprotonated iodothyronines. Rapid Communications in Mass Spectrometry, 2005, 19, 2295-2304.	0.7	18

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109	Exercise alters the profile of phospholipid molecular species in rat skeletal muscle. Journal of Applied Physiology, 2004, 97, 1823-1829.	1.2	60
110	Greater effect of diet than exercise training on the fatty acid profile of rat skeletal muscle. Journal of Applied Physiology, 2004, 96, 974-980.	1.2	33