William J Griffiths

List of Publications by Year
in descending order

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258	11,519	34105	39675
papers	citations	52 h-index	94 g-index

279	279	279	12271
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Docosahexaenoic Acid, a Ligand for the Retinoid X Receptor in Mouse Brain. Science, 2000, 290, 2140-2144.	12.6	707
2	Shorthand notation for lipid structures derived from mass spectrometry. Journal of Lipid Research, 2013, 54, 1523-1530.	4.2	689
3	Update on LIPID MAPS classification, nomenclature, and shorthand notation for MS-derived lipid structures. Journal of Lipid Research, 2020, 61, 1539-1555.	4.2	372
4	The Transcription Factor STAT-1 Couples Macrophage Synthesis of 25-Hydroxycholesterol to the Interferon Antiviral Response. Immunity, 2013, 38, 106-118.	14.3	327
5	Targeted Metabolomics for Biomarker Discovery. Angewandte Chemie - International Edition, 2010, 49, 5426-5445.	13.8	310
6	Tandem mass spectrometry in the study of fatty acids, bile acids, and steroids. Mass Spectrometry Reviews, 2003, 22, 81-152.	5.4	274
7	Polyunsaturated Fatty Acids Including Docosahexaenoic and Arachidonic Acid Bind to the Retinoid X Receptor Î± Ligand-binding Domain. Molecular and Cellular Proteomics, 2004, 3, 692-703.	3.8	270
8	Mass spectrometry: from proteomics to metabolomics and lipidomics. Chemical Society Reviews, 2009, 38, 1882.	38.1	203
9	Cholesterol 25-hydroxylase suppresses SARS-CoV-2 replication by blocking membrane fusion. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 32105-32113.	7.1	192
10	Release of metabolic enzymes by Giardia in response to interaction with intestinal epithelial cells. Molecular and Biochemical Parasitology, 2008, 159, 85-91.	1.1	168
11	Electrospray and tandem mass spectrometry in biochemistry. Biochemical Journal, 2001, 355, 545-561.	3.7	163
12	Eoxins are proinflammatory arachidonic acid metabolites produced via the 15-lipoxygenase-1 pathway in human eosinophils and mast cells. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 680-685.	7.1	144
13	Lipidomics needs more standardization. Nature Metabolism, 2019, 1, 745-747.	11.9	139
14	Neurosteroids in Rat Brain:â€‰ Extraction, Isolation, and Analysis by Nanoscale Liquid Chromatographyâ^'Electrospray Mass Spectrometry. Analytical Chemistry, 2003, 75, 5835-5846.	6.5	135
15	Bile acids: analysis in biological fluids and tissues. Journal of Lipid Research, 2010, 51, 23-41.	4.2	134
16	DMSO-Related Effects in Protein Characterization. Journal of Biomolecular Screening, 2006, 11, 131-137.	2.6	131
17	Bile acids: analysis in biological fluids and tissues. Journal of Lipid Research, 2010, 51, 23-41.	4.2	125
18	Brain endogenous liver X receptor ligands selectively promote midbrain neurogenesis. Nature Chemical Biology, 2013, 9, 126-133.	8.0	116

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19	Defective cholesterol metabolism in amyotrophic lateral sclerosis. Journal of Lipid Research, 2017, 58, 267-278.	4.2	115
20	Derivatisation for the characterisation of neutral oxosteroids by electrospray and matrix-assisted laser desorption/ionisation tandem mass spectrometry: the Girard P derivative. Rapid Communications in Mass Spectrometry, 2003, 17, 924-935.	1.5	110
21	Cerebrospinal Fluid Steroidomics: Are Bioactive Bile Acids Present in Brain?. Journal of Biological Chemistry, 2010, 285, 4666-4679.	3.4	109
22	Novel lipoidal derivatives of pregnenolone and dehydroepiandrosterone and absence of their sulfated counterparts in rodent brain. Journal of Lipid Research, 2004, 45, 2287-2302.	4.2	107
23	Liquid chromatography-mass spectrometry utilizing multi-stage fragmentation for the identification of oxysterols. Journal of Lipid Research, 2007, 48, 976-987.	4.2	102
24	Metabolic Network Analysis Reveals Altered Bile Acid Synthesis and Metabolism in Alzheimerâ€™s Disease. Cell Reports Medicine, 2020, 1, 100138.	6.5	102
25	Identification of Immunoreactive Proteins during Acute Human Giardiasis. Journal of Infectious Diseases, 2003, 187, 1849-1859.	4.0	100
26	Analysis of oxysterols by electrospray tandem mass spectrometry. Journal of the American Society for Mass Spectrometry, 2006, 17, 341-362.	2.8	100
27	Targeted metabolomics and mass spectrometry. Advances in Protein Chemistry and Structural Biology, 2010, 80, 45-83.	2.3	94
28	Vernix caseosa as a multi-component defence system based on polypeptides, lipids and their interactions. Cellular and Molecular Life Sciences, 2005, 62, 2390-2399.	5.4	93
29	Pregnenolone sulfate in the brain: A controversial neurosteroid. Neurochemistry International, 2008, 52, 522-540.	3.8	92
30	Quantitative Charge-Tags for Sterol and Oxysterol Analysis. Clinical Chemistry, 2015, 61, 400-411.	3.2	89
31	Characterisation of alpha-1 giardin: an immunodominant Giardia lamblia annexin with glycosaminoglycan-binding activity. International Journal for Parasitology, 2003, 33, 1341-1351.	3.1	87
32	Synthetic peptideâ€containing surfactants. FEBS Journal, 1998, 255, 116-124.	0.2	85
33	Cholestenoic acids regulate motor neuron survival via liver X receptors. Journal of Clinical Investigation, 2014, 124, 4829-4842.	8.2	84
34	The Biosynthesis of Enzymatically Oxidized Lipids. Frontiers in Endocrinology, 2020, 11, 591819.	3.5	82
35	Determination of Dissociation Constants for Proteinâ^'Ligand Complexes by Electrospray Ionization Mass Spectrometry. Analytical Chemistry, 2004, 76, 4325-4331.	6.5	80
36	Effects of a Disrupted Blood-Brain Barrier on Cholesterol Homeostasis in the Brain. Journal of Biological Chemistry, 2014, 289, 23712-23722.	3.4	78

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37	Apolipoprotein CIII promotes Ca2+-dependent Â cell death in type 1 diabetes. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 10090-10094.	7.1	77
38	Methods for oxysterol analysis: Past, present and future. Biochemical Pharmacology, 2013, 86, 3-14.	4.4	77
39	Cholesterol metabolites exported from human brain. Steroids, 2015, 99, 189-193.	1.8	75
40	Analysis of oxosteroids by nano-electrospray mass spectrometry of their oximes. , 2000, 14, 390-400.		74
41	Oxysterol research: a brief review. Biochemical Society Transactions, 2019, 47, 517-526.	3.4	74
42	Prothioconazole and Prothioconazole-Desthio Activities against Candida albicans Sterol 14-Î±-Demethylase. Applied and Environmental Microbiology, 2013, 79, 1639-1645.	3.1	73
43	Analysis of neurosterols by GCâ€“MS and LCâ€“MS/MS. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2009, 877, 2778-2805.	2.3	72
44	Characterization of Troponin Responses in Isoproterenol-Induced Cardiac Injury in the Hanover Wistar Rat. Toxicologic Pathology, 2007, 35, 606-617.	1.8	68
45	Discovering Oxysterols in Plasma: A Window on the Metabolome. Journal of Proteome Research, 2008, 7, 3602-3612.	3.7	67
46	The Effect of 24S-Hydroxycholesterol on Cholesterol Homeostasis in Neurons: Quantitative Changes to the Cortical Neuron Proteome. Journal of Proteome Research, 2008, 7, 1606-1614.	3.7	67
47	Reduction of S-nitrosoglutathione by human alcohol dehydrogenase 3 is an irreversible reaction as analysed by electrospray mass spectrometry. FEBS Journal, 2003, 270, 1249-1256.	0.2	65
48	A comprehensive machine-readable view of the mammalian cholesterol biosynthesis pathway. Biochemical Pharmacology, 2013, 86, 56-66.	4.4	64
49	Identification of unusual 7-oxygenated bile acid sulfates in a patient with Niemann-Pick disease, type C. Journal of Lipid Research, 2001, 42, 1571-1577.	4.2	64
50	Peptide repertoire of human cerebrospinal fluid: novel proteolytic fragments of neuroendocrine proteins. Biomedical Applications, 2001, 754, 357-367.	1.7	62
51	Liver disease in infancy caused by oxysterol 7Î±â€hydroxylase deficiency: successful treatment with chenodeoxycholic acid. Journal of Inherited Metabolic Disease, 2014, 37, 851-861.	3.6	58
52	Alkaline Hydrolysis of Oxaliplatinâ€”Isolation and Identification of the Oxalato Monodentate Intermediate. Journal of Pharmaceutical Sciences, 2002, 91, 2116-2121.	3.3	57
53	Analytical strategies for characterization of oxysterol lipidomes: Liver X receptor ligands in plasma. Free Radical Biology and Medicine, 2013, 59, 69-84.	2.9	56
54	New methods for analysis of oxysterols and related compounds by LCâ€“MS. Journal of Steroid Biochemistry and Molecular Biology, 2016, 162, 4-26.	2.5	55

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55	Quality control requirements for the correct annotation of lipidomics data. Nature Communications, 2021, 12, 4771.	12.8	54
56	Analysis of Bile Acids and Bile Alcohols in Urine by Capillary Column Liquid Chromatography-Mass Spectrometry using Fast Atom Bombardment or Electrospray Ionization and Collision-induced Dissociation. Biomedical Chromatography, 1997, 11, 240-255.	1.7	53
57	Potential of Sterol Analysis by Liquid Chromatographyâ€“Tandem Mass Spectrometry for the Prenatal Diagnosis of Smith-Lemli-Opitz Syndrome. Clinical Chemistry, 2008, 54, 1317-1324.	3.2	53
58	Multiple-Approaches to the Identification and Quantification of Cytochromes P450 in Human Liver Tissue by Mass Spectrometry. Journal of Proteome Research, 2009, 8, 1672-1681.	3.7	53
59	Localization of sterols and oxysterols in mouse brain reveals distinct spatial cholesterol metabolism. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 5749-5760.	7.1	53
60	The role of microRNA-155/liver X receptor pathway in experimental and idiopathic pulmonary fibrosis. Journal of Allergy and Clinical Immunology, 2017, 139, 1946-1956.	2.9	51
61	Accurate Mass Measurement by Electrospray Ionization Quadrupole Mass Spectrometry:Â Detection of Variants Differing by <6 Da from Normal in Human Hemoglobin Heterozygotes. Analytical Chemistry, 2003, 75, 1978-1982.	6.5	50
62	Reduced Plasma Levels of 25-Hydroxycholesterol and Increased Cerebrospinal Fluid Levels of Bile Acid Precursors in Multiple Sclerosis Patients. Molecular Neurobiology, 2017, 54, 8009-8020.	4.0	50
63	Nano-electrospray tandem mass spectrometry for the analysis of neurosteroid sulphatesâ€. Rapid Communications in Mass Spectrometry, 1999, 13, 1595-1610.	1.5	49
64	Deletion of a xenobiotic metabolizing gene in mice affects folate metabolism. Biochemical and Biophysical Research Communications, 2007, 364, 556-560.	2.1	49
65	The energies of triplet states of CO2+2 and OCS2+ ions. An experimental investigation by double-charge-transfer spectroscopy. International Journal of Mass Spectrometry and Ion Processes, 1989, 87, 349-357.	1.8	48
66	Matrix-Assisted Laser Desorption/Ionization High-Energy Collision-Induced Dissociation of Steroids:Â Analysis of Oxysterols in Rat Brain. Analytical Chemistry, 2006, 78, 164-173.	6.5	48
67	Oxysterols in the brain of the cholesterol 24-hydroxylase knockout mouse. Biochemical and Biophysical Research Communications, 2014, 446, 768-774.	2.1	48
68	Current trends in oxysterol research. Biochemical Society Transactions, 2016, 44, 652-658.	3.4	48
69	On the formation of 7-ketocholesterol from 7-dehydrocholesterol in patients with CTX and SLO. Journal of Lipid Research, 2014, 55, 1165-1172.	4.2	47
70	Analysis of bioactive oxysterols in newborn mouse brain by LC/MS. Journal of Lipid Research, 2012, 53, 2469-2483.	4.2	46
71	Cholesterolomics: An update. Analytical Biochemistry, 2017, 524, 56-67.	2.4	46
72	Oxysterols as lipid mediators: Their biosynthetic genes, enzymes and metabolites. Prostaglandins and Other Lipid Mediators, 2020, 147, 106381.	1.9	46

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73	The major metabolites of ursodeoxycholic acid in human urine are conjugated withN-acetylglucosamine. Hepatology, 1994, 20, 845-853.	7.3	45
74	The palmitoyl groups of lung surfactant protein C reduce unfolding into a fibrillogenic intermediate. Journal of Molecular Biology, 2001, 310, 937-950.	4.2	45
75	Comparative Cytochrome P450 Proteomics in the Livers of Immunodeficient Mice Using 18O Stable Isotope Labeling. Molecular and Cellular Proteomics, 2007, 6, 953-962.	3.8	45
76	An Interferon Regulated MicroRNA Provides Broad Cell-Intrinsic Antiviral Immunity through Multihit Host-Directed Targeting of the Sterol Pathway. PLoS Biology, 2016, 14, e1002364.	5.6	45
77	Analysis of pregnenolone and dehydroepiandrosterone in rodent brain: cholesterol autoxidation is the key. Journal of Lipid Research, 2009, 50, 2430-2444.	4.2	44
78	Observation of an Intact Noncovalent Homotrimer of Detergent-solubilized Rat Microsomal Glutathione Transferase-1 by Electrospray Mass Spectrometry. Journal of Biological Chemistry, 2004, 279, 13311-13316.	3.4	42
79	The mammalian alcohol dehydrogenases interact in several metabolic pathways. Chemico-Biological Interactions, 2003, 143-144, 175-181.	4.0	41
80	Metabolomics and Metabolite Profiling: Past Heroes and Future Developments. European Journal of Mass Spectrometry, 2007, 13, 45-50.	1.0	41
81	Metabolism of Non-Enzymatically Derived Oxysterols: Clues from sterol metabolic disorders. Free Radical Biology and Medicine, 2019, 144, 124-133.	2.9	39
82	Charge Remote Fragmentation of Fatty Acid Anions in 400 eV Collisions with Xenon Atoms. Rapid Communications in Mass Spectrometry, 1996, 10, 21-28.	1.5	38
83	Analysis of neurosterols and neurosteroids by mass spectrometry. Biochimie, 2007, 89, 182-191.	2.6	38
84	Visualizing Cholesterol in the Brain by On-Tissue Derivatization and Quantitative Mass Spectrometry Imaging. Analytical Chemistry, 2021, 93, 4932-4943.	6.5	38
85	Elevated oxysterol levels in human and mouse livers reflect nonalcoholic steatohepatitis. Journal of Lipid Research, 2019, 60, 1270-1283.	4.2	37
86	Antibacterial peptides in stimulated human granulocytes. FEBS Journal, 2002, 269, 512-518.	0.2	35
87	Analysis of derivatised steroids by matrix-assisted laser desorption/ionisation and post-source decay mass spectrometry. Steroids, 2006, 71, 42-53.	1.8	35
88	Targeted lipidomic analysis of oxysterols in the embryonic central nervous system. Molecular BioSystems, 2009, 5, 529.	2.9	35
89	Isolation and structure of a new galactolipid from oat seeds. Lipids, 1998, 33, 355-363.	1.7	34
90	Capillary Liquid Chromatography/Electrospray Mass Spectrometry for Analysis of Steroid Sulfates in Biological Samples. Analytical Chemistry, 2003, 75, 791-797.	6.5	34

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91	Nano-liquid chromatographyâ€“tandem mass spectrometry analysis of oxysterols in brain: monitoring of cholesterol autoxidation. Chemistry and Physics of Lipids, 2011, 164, 411-424.	3.2	34
92	Sterols and oxysterols in plasma from Smith-Lemli-Opitz syndrome patients. Journal of Steroid Biochemistry and Molecular Biology, 2017, 169, 77-87.	2.5	34
93	The identification of novel steroid N-acetylglucosaminides in the urine of pregnant women. Journal of Steroid Biochemistry and Molecular Biology, 1996, 58, 585-598.	2.5	32
94	A Comparison of Fast-atom Bombardment and Electrospray as Methods of Ionization in the Study of Sulphated- and Sulphonated-lipids by Tandem Mass Spectrometry. Rapid Communications in Mass Spectrometry, 1996, 10, 1169-1174.	1.5	32
95	On the future of â€œomicsâ€• lipidomics. Journal of Inherited Metabolic Disease, 2011, 34, 583-592.	3.6	32
96	Microsomal glutathione transferase 1 exhibits one-third-of-the-sites-reactivity towards glutathione. Archives of Biochemistry and Biophysics, 2009, 487, 42-48.	3.0	31
97	Analysis of oxysterol metabolomes. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2011, 1811, 784-799.	2.4	31
98	Comparison of the composition of bile acids in bile of patients with adenocarcinoma of the pancreas and benign disease. Journal of Steroid Biochemistry and Molecular Biology, 2017, 174, 290-295.	2.5	31
99	Double ionization energies of fluoromethanes measured using a double electron-capture technique. International Journal of Mass Spectrometry and Ion Processes, 1988, 85, 69-79.	1.8	30
100	Possible Release of an ArgGlyArgProGln Pentapeptide with Innate Immunity Properties from Acidic Proline-Rich Proteins by Proteolytic Activity in Commensal Streptococcus and Actinomyces Species. Infection and Immunity, 2000, 68, 5425-5429.	2.2	30
101	A PROTEOMIC APPROACH TO THE IDENTIFICATION OF CYTOCHROME P450 ISOFORMS IN MALE AND FEMALE RAT LIVER BY NANOSCALE LIQUID CHROMATOGRAPHY-ELECTROSPRAY IONIZATION-TANDEM MASS SPECTROMETRY. Drug Metabolism and Disposition, 2004, 32, 382-386.	3.3	30
102	24(S),25-Epoxycholesterol and cholesterol 24S-hydroxylase (CYP46A1) overexpression promote midbrain dopaminergic neurogenesis in vivo. Journal of Biological Chemistry, 2019, 294, 4169-4176.	3.4	30
103	Evidence for protein dolichylation. FEBS Letters, 1997, 416, 235-238.	2.8	29
104	Analytical strategies for characterization of bile acid and oxysterol metabolomes. Biochemical and Biophysical Research Communications, 2010, 396, 80-84.	2.1	29
105	Additional pathways of sterol metabolism: Evidence from analysis of Cyp27a1â^'/â^' mouse brain and plasma. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2019, 1864, 191-211.	2.4	29
106	Experimental evidence for the stability of the NH4., H3O., H3S., and H3. radicals by neutralization-reionization spectroscopy. International Journal of Mass Spectrometry and Ion Processes, 1987, 77, 233-239.	1.8	28
107	Porcine pulmonary surfactant preparations contain the antibacterial peptide prophenin and a C-terminal 18-residue fragment thereof. FEBS Letters, 1999, 460, 257-262.	2.8	28
108	Characterisation of variant forms of prophenin: mechanistic aspects of the fragmentation of proline-rich peptides. Rapid Communications in Mass Spectrometry, 2000, 14, 2182-2202.	1.5	28

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109	De novo sequencing of proteolytic peptides by a combination of C-terminal derivatization and nano-electrospray/ collision-induced dissociation mass spectrometry. Journal of the American Society for Mass Spectrometry, 2000, 11, 673-686.	2.8	28
110	First international descriptive and interventional survey for cholesterol and non-cholesterol sterol determination by gas- and liquid-chromatographyâ€“Urgent need for harmonisation of analytical methods. Journal of Steroid Biochemistry and Molecular Biology, 2019, 190, 115-125.	2.5	28
111	Concentrations of bile acid precursors in cerebrospinal fluid of Alzheimer's disease patients. Free Radical Biology and Medicine, 2019, 134, 42-52.	2.9	28
112	Cholesterol metabolism pathways â€“ are the intermediates more important than the products?. FEBS Journal, 2021, 288, 3727-3745.	4.7	28
113	The SARS-CoV2 envelope differs from host cells, exposes procoagulant lipids, and is disrupted inÂvivo by oral rinses. Journal of Lipid Research, 2022, 63, 100208.	4.2	28
114	Gln-Gly cleavage: Correlation between collision-induced dissociation and biological degradation. Journal of the American Society for Mass Spectrometry, 2001, 12, 337-342.	2.8	27
115	Characterization of carrot pectin methylesterase. Cellular and Molecular Life Sciences, 2002, 59, 513-518.	5.4	27
116	On-Column Electrochemical Reactions Accompanying the Electrospray Process. Analytical Chemistry, 2003, 75, 1022-1030.	6.5	27
117	Identification of cytochrome P450 enzymes in human colorectal metastases and the surrounding liver: a proteomic approach. European Journal of Cancer, 2004, 40, 2127-2134.	2.8	27
118	High-Energy Collision-Induced Dissociation of Oxosteroids Derivatised to Girard Hydrazones. European Journal of Mass Spectrometry, 2004, 10, 63-88.	1.0	27
119	Cholesterol metabolism: from lipidomics to immunology. Journal of Lipid Research, 2022, 63, 100165.	4.2	27
120	Electrospray Tandem Mass Spectrometry of Intact Î²-Chain Hemoglobin Variants. Analytical Chemistry, 2002, 74, 2097-2102.	6.5	26
121	Proteomic analysis of cytochromes P450: a mass spectrometry approach. Biochemical Society Transactions, 2006, 34, 1246-1251.	3.4	26
122	An update on oxysterol biochemistry: New discoveries in lipidomics. Biochemical and Biophysical Research Communications, 2018, 504, 617-622.	2.1	26
123	Hydrogen/Deuterium Exchange and Aggregation of a Polyvaline and a Polyleucine Î±-Helix Investigated by Matrix-assisted Laser Desorption Ionization Mass Spectrometry. Molecular and Cellular Proteomics, 2002, 1, 592-597.	3.8	25
124	The antimicrobial peptide LL-37 binds to the human plasma protein apolipoprotein A-I. Rapid Communications in Mass Spectrometry, 2004, 18, 588-589.	1.5	25
125	Quantitative Proteomics Characterization of a Mouse Embryonic Stem Cell Model of Down Syndrome. Molecular and Cellular Proteomics, 2009, 8, 585-595.	3.8	25
126	Analysis by liquid chromatographyâ€“mass spectrometry of sterols and oxysterols in brain of the newborn Dhcr7Î”3-5/T93M mouse: A model of Smithâ€“Lemliâ€“Opitz syndrome. Biochemical Pharmacology, 2013, 86, 43-55.	4.4	24

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127	Electrospray/Collision-induced Dissociation Mass Spectrometry of Mono-, Di- and Tri-hydroxylated Lipoxygenase Products, Including Leukotrienes of the B-Series and Lipoxins. , 1996, 10, 183-196.		23
128	Demonstration of leukotriene-C4 synthase in platelets and species distribution of the enzyme activity. FEBS Journal, 1998, 251, 227-235.	0.2	23
129	Sterol lipidomics in health and disease: Methodologies and applications. European Journal of Lipid Science and Technology, 2009, 111, 14-38.	1.5	23
130	Double ionisation energy of methane measured using a double electron capture technique. Journal of Physics B: Atomic and Molecular Physics, 1987, 20, L493-L497.	1.6	22
131	Capillary liquid chromatography combined with tandem mass spectrometry for the study of neurosteroids and oxysterols in brain. Neurochemistry International, 2008, 52, 506-521.	3.8	22
132	Analysis of Dolichols and Polyprenols and Their Derivatives by Electron Impact, Fast Atom Bombardment and Electrospray Ionization Tandem Mass Spectrometry. Rapid Communications in Mass Spectrometry, 1996, 10, 663-675.	1.5	21
133	An assay combining high-performance liquid chromatography and mass spectrometry to measure DNA interstrand cross-linking efficiency in oligonucleotides of varying sequences. Analytical Biochemistry, 2008, 374, 173-181.	2.4	21
134	Hodgkin Reedâ€“Sternberg cells express 15â€lipoxygenaseâ€1 and are putative producers of eoxins inâ€ƒvivo. FEBS Journal, 2008, 275, 4222-4234.	4.7	21
135	Identification of unusual oxysterols and bile acids with 7-oxo or 3Î²,5Î±,6Î²-trihydroxy functions in human plasma by charge-tagging mass spectrometry with multistage fragmentation. Journal of Lipid Research, 2018, 59, 1058-1070.	4.2	21
136	The benzene dication: Energies of excited states determined by double-charge-transfer spectroscopy using OH+ and F+ projectile ions. Chemical Physics, 1991, 157, 299-304.	1.9	20
137	Characterization of Conjugated Metabolites of Benzo[a]pyrene in Germ-Free Rat Urine by Liquid Chromatography/Electrospray Tandem Mass Spectrometry. Chemical Research in Toxicology, 1999, 12, 1182-1189.	3.3	20
138	Components derived fromPelargoniumstimulate macrophage killing ofMycobacteriumspecies. Journal of Applied Microbiology, 2009, 106, 1184-1193.	3.1	20
139	24S,25-Epoxycholesterol in mouse and rat brain. Biochemical and Biophysical Research Communications, 2014, 449, 229-234.	2.1	20
140	Electrospray tandem mass spectrometry in the rapid identification of ?-chain haemoglobin variants. Rapid Communications in Mass Spectrometry, 2000, 14, 1184-1194.	1.5	19
141	General Methods for the Extraction, Purification, and Measurement of Steroids by Chromatography and Mass Spectrometry. , 2010, , 163-282.		19
142	The oxysterol and cholestenoic acid profile of mouse cerebrospinal fluid. Steroids, 2015, 99, 172-177.	1.8	19
143	Neuroâ€oxysterols and neuroâ€sterols as ligands to nuclear receptors, GPCRs, ligandâ€gated ion channels and other protein receptors. British Journal of Pharmacology, 2021, 178, 3176-3193.	5.4	19
144	Double ionization energies of the chlorofluoromethanes CF3Cl, CF2Cl2 and CFCl3 determined using double-charge-transfer spectroscopy. International Journal of Mass Spectrometry and Ion Processes, 1988, 86, 341-350.	1.8	18

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145	Charge-remote fragmentation of sulphated and glucuronidated bile acids and their 2-aminoethanesulphonic acid derivatives. Rapid Communications in Mass Spectrometry, 1994, 8, 227-236.	1.5	18
146	Charge-remote fragmentation of peptides derivatized with 4-aminonaphthalenesulphonic acid. Rapid Communications in Mass Spectrometry, 1994, 8, 797-803.	1.5	18
147	Evaluation of novel derivatisation reagents for the analysis of oxysterols. Biochemical and Biophysical Research Communications, 2014, 446, 756-761.	2.1	18
148	Analysis of Bile Acids. , 2010, , 837-966.		18
149	An experimental investigation of a reaction window in cross-sections for double-charge-transfer reactions. International Journal of Mass Spectrometry and Ion Processes, 1989, 87, R1-R6.	1.8	17
150	Dolichol-like lipids with stimulatory effect on DNA synthesis: Substrates for protein dolichylation?. , 1998, 71, 502-514.		17
151	Cardiac Troponin I in Isoproterenol-Induced Cardiac Injury in the Hanover Wistar Rat: Studies on Low Dose Levels and Routes of Administration. Toxicologic Pathology, 2010, 38, 287-291.	1.8	17
152	Characterisation of polyacetylenes isolated from carrot (Daucus carota) extracts by negative ion tandem mass spectrometry. Rapid Communications in Mass Spectrometry, 2011, 25, 2231-2239.	1.5	17
153	Ring Opening of Benzo[a]pyrene in the Germ-Free Rat Is a Novel Pathway for Formation of Potentially Genotoxic Metabolitesâ€. Biochemistry, 2000, 39, 15585-15591.	2.5	16
154	Proteomic investigation of urinary markers of carbon-tetrachloride-induced hepatic fibrosis in the Hanover Wistar rat. Cell Biology and Toxicology, 2009, 25, 499-512.	5.3	16
155	Charge-tagging liquid chromatographyâ€“mass spectrometry methodology targeting oxysterol diastereoisomers. Chemistry and Physics of Lipids, 2017, 207, 69-80.	3.2	16
156	International descriptive and interventional survey for oxycholesterol determination by gas- and liquid-chromatographic methods. Biochimie, 2018, 153, 26-32.	2.6	16
157	Gene expression identifies metabolic and functional differences between intramuscular and subcutaneous adipocytes in cattle. BMC Genomics, 2020, 21, 77.	2.8	16
158	Doubly ionized states of carbon tetrafluoride. Chemical Physics, 1993, 173, 109-121.	1.9	15
159	Membrane Activity of (Cys48Ser) Lung Surfactant Protein B Increases with Dimerisation. Biological Chemistry, 2001, 382, 933-939.	2.5	15
160	Role of AMACR (Î±-methylacyl-CoA racemase) and MFE-1 (peroxisomal multifunctional enzyme-1) in bile acid synthesis in mice. Biochemical Journal, 2014, 461, 125-135.	3.7	15
161	Unravelling new pathways of sterol metabolism. Current Opinion in Clinical Nutrition and Metabolic Care, 2018, 21, 90-96.	2.5	15
162	Electronically excited states of the CH3I2+ ion. Journal of the Chemical Society, Faraday Transactions, 1990, 86, 2801.	1.7	14

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163	Lutein associated with a transthyretin indicates carotenoid derivation and novel multiplicity of transthyretin ligands. FEBS Letters, 1995, 365, 23-26.	2.8	14
164	Electrospray Mass Spectrometry: An Efficient Method to Detect Silent Hemoglobin Variants Causing Erythrocytosis. Clinical Chemistry, 2001, 47, 1308-1311.	3.2	14
165	Studies on the analysis of 25-hydroxyvitamin D3 by isotope-dilution liquid chromatographyâ€“tandem mass spectrometry using enzyme-assisted derivatisation. Biochemical and Biophysical Research Communications, 2014, 446, 745-750.	2.1	14
166	Identification of 7Î±,24-dihydroxy-3-oxocholest-4-en-26-oic and 7Î±,25-dihydroxy-3-oxocholest-4-en-26-oic acids in human cerebrospinal fluid and plasma. Biochimie, 2018, 153, 86-98.	2.6	14
167	Mining for Oxysterols in Cyp7b1â^'/â^' Mouse Brain and Plasma: Relevance to Spastic Paraplegia Type 5. Biomolecules, 2019, 9, 149.	4.0	14
168	Deep mining of oxysterols and cholestenoic acids in human plasma and cerebrospinal fluid: Quantification using isotope dilution mass spectrometry. Analytica Chimica Acta, 2021, 1154, 338259.	5.4	14
169	Metabolic profiling in serum, cerebrospinal fluid, and brain of patients with cerebrotendinous xanthomatosis. Journal of Lipid Research, 2021, 62, 100078.	4.2	14
170	Sources of 7-ketocholesterol, metabolism and inactivation strategies: food and biomedical applications. , 2022, 2022, R40-R56.		14
171	Experimental determination of the ionization energy of the CH5Â· radical. International Journal of Mass Spectrometry and Ion Processes, 1986, 74, 317-321.	1.8	13
172	Doubly ionized states of N2O studied by photon-induced Auger electron and double charge transfer spectroscopies. Journal of Physics B: Atomic, Molecular and Optical Physics, 1991, 24, 4187-4201.	1.5	13
173	Analysis of variant forms of porcine surfactant polypeptide-C by nano-electrospray mass spectrometry. , 1998, 12, 1104-1114.		13
174	Negative-ion electrospray tandem mass spectrometry of peptides derivatized with 4-aminonaphthalenesulphonic acid. Journal of Mass Spectrometry, 1998, 33, 988-993.	1.6	13
175	A novel SerO-glucuronidation in acidic proline-rich proteins identified by tandem mass spectrometry. FEBS Letters, 2000, 475, 131-134.	2.8	13
176	Distinct but parallel evolutionary patterns between alcohol and aldehyde dehydrogenases: addition of fish/human betaine aldehyde dehydrogenase divergence. Cellular and Molecular Life Sciences, 2003, 60, 2009-2016.	5.4	13
177	Accurate mass measurement and tandem mass spectrometry of intact globin chains identify the low proportion variant hemoglobin Leporeâ€“Bostonâ€“Washington from the blood of a heterozygote. Journal of Mass Spectrometry, 2004, 39, 289-294.	1.6	13
178	Double ionization energies of the fluoroethane molecules C2H5F, CH3CHF2, CH2FCHF2, CH3CF3, CHF2CF3 and C2F6 measured by double-charge-transfer spectroscopy. Journal of the Chemical Society, Faraday Transactions 2, 1989, 85, 1575.	1.1	12
179	Double-ionization energies of the chloroethane molecules CH3CH2Cl, CH3CHCl2, CH3CCl3, CH2ClCH2Cl, CH2ClCHCl2, CH2ClCCl3, CHCl2CHCl2, CHCl2CCl3 and CCl3CCl3. International Journal of Mass Spectrometry and Ion Processes, 1992, 112, 45-61.	1.8	12
180	Liquid chromatography/mass spectrometry with collision-induced dissociation of arachidonic acid metabolites derivatized with aminobenzenesulphonic acid. Rapid Communications in Mass Spectrometry, 1995, 9, 289-299.	1.5	12

#	Article	IF	Citations
181	Negative-ion electrospray mass spectra of peptides derivatized with 4-aminonaphthalenesulphonic acid. Rapid Communications in Mass Spectrometry, 1995, 9, 667-676.	1.5	12
182	Biosynthesis of 14,15â€Hepoxilins in Human L1236 Hodgkin Lymphoma Cells and Eosinophils. Lipids, 2011, 46, 69-79.	1.7	12
183	Sterolomics in biology, biochemistry, medicine. TrAC - Trends in Analytical Chemistry, 2019, 120, 115280.	11.4	12
184	Bile acid biosynthesis in Smith-Lemli-Opitz syndrome bypassing cholesterol: Potential importance of pathway intermediates. Journal of Steroid Biochemistry and Molecular Biology, 2021, 206, 105794.	2.5	12
185	Single and double ionization energies of sulphur hexafluoride measured by double charge transfer spectroscopy. International Journal of Mass Spectrometry and Ion Processes, 1988, 85, 259-264.	1.8	11
186	Auger and double-charge-transfer spectra of polyconjugated hydrocarbons: Butadiene, hexatriene, and polyacetylene. Physical Review B, 1992, 46, 11295-11309.	3.2	11
187	Electronic-state energies of the CH2I 2+ 2 , CHI 2+ 3 and CI 2+ 4 dications. Journal of the Chemical Society, Faraday Transactions, 1993, 89, 2945.	1.7	11
188	Revised sample preparation for the analysis of oxysterols by enzyme-assisted derivatisation for sterol analysis (EADSA). Analytical and Bioanalytical Chemistry, 2015, 407, 5235-5239.	3.7	11
189	Modern Methods of Bile Acid Analysis by Mass Spectrometry: A View into the Metabolome. Current Analytical Chemistry, 2007, 3, 103-126.	1.2	11
190	Sterols, Oxysterols, and Accessible Cholesterol: Signalling for Homeostasis, in Immunity and During Development. Frontiers in Physiology, 2021, 12, 723224.	2.8	11
191	Ionization energies of CH3Oâ€¢ and CH3Sâ€¢ radicals measured by charge-inversion energy-loss spectrometry. Chemical Physics Letters, 1987, 142, 7-9.	2.6	10
192	Experimental determination of the energies required to form CH3NH2+2 and CH3SH2+ ions from their neutral counterparts. International Journal of Mass Spectrometry and Ion Processes, 1989, 89, 125-131.	1.8	10
193	A cytotoxic, apoptotic, low -molecular weight factor from pineal gland. Life Sciences, 1999, 65, 1047-1057.	4.3	10
194	Detecting oxysterols in the human circulation. Nature Immunology, 2011, 12, 577-577.	14.5	10
195	A new derivative for oxosteroid analysis by mass spectrometry. Biochemical and Biophysical Research Communications, 2014, 446, 762-767.	2.1	10
196	Formation and metabolism of oxysterols and cholestenoic acids found in the mouse circulation: Lessons learnt from deuterium-enrichment experiments and the CYP46A1 transgenic mouse. Journal of Steroid Biochemistry and Molecular Biology, 2019, 195, 105475.	2.5	10
197	Energetics of charge-inversion reactions of H3O+ and H3Oâ‹ ions. International Journal of Mass Spectrometry and Ion Processes, 1987, 77, R7-R12.	1.8	9
198	Double-ionization energies of fluorinated benzene molecules. Journal of the American Society for Mass Spectrometry, 1993, 4, 513-518.	2.8	9

#	Article	IF	Citations
199	Structural analysis of the thyroid hormone receptor ligand binding domain: studies using a quadrupole time-of-flight tandem mass spectrometer. , 1999, 13, 1782-1791.		9
200	Gln-Gly cleavage: a dominant dissociation site in the fragmentation of protonated peptides. Rapid Communications in Mass Spectrometry, 2001, 15, 713-720.	1.5	9
201	Hydrolysis of the amyloid ?-peptide (A?) 1-40 between Asp23-Val24 produces non-aggregating fragments. An electrospray mass spectrometric study. Journal of Mass Spectrometry, 2005, 40, 142-145.	1.6	9
202	Modulation of Kv3.1b potassium channel level and intracellular potassium concentration in 158N murine oligodendrocytes and BV-2 murine microglial cells treated with 7-ketocholesterol, 24S-hydroxycholesterol or tetracosanoic acid (C24:0). Biochimie, 2018, 153, 56-69.	2.6	9
203	The Cerebrospinal Fluid Profile of Cholesterol Metabolites in Parkinsonâ€™s Disease and Their Association With Disease State and Clinical Features. Frontiers in Aging Neuroscience, 2021, 13, 685594.	3.4	9
204	Liquid chromatography-mass spectrometry with collision-induced dissociation of conjugated metabolites of benzol[a]pyrene. Journal of the American Society for Mass Spectrometry, 1997, 8, 50-61.	2.8	8
205	The synthesis of taurine-conjugated bile acids and bile acid sulfates labeled with 14C or 3H in the taurine moiety. Journal of Labelled Compounds and Radiopharmaceuticals, 1997, 39, 159-164.	1.0	8
206	Sterolomics: State of the art, developments, limitations and challenges. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2017, 1862, 771-773.	2.4	8
207	Nanospray mass spectrometry in protein and peptide chemistry. , 2000, 88, 69-79.		8
208	Electrospray Tandem Mass Spectrometry of Cysteinyl Leukotrienes. Rapid Communications in Mass Spectrometry, 1996, 10, 1054-1070.	1.5	7
209	Electrospray/collision-induced dissociation of derivatised peptides: studies on a hybrid magnetic sectorâ€“orthogonal time-of-flight mass spectrometer. International Journal of Mass Spectrometry and Ion Processes, 1997, 164, 71-79.	1.8	7
210	Gas phase conformation can have an influence on peptide fragmentation. Proteomics, 2001, 1, 934-945.	2.2	7
211	Characterization of the elusive disulfide bridge forming human Hb variant: Hb Ta-Li Î²83 (EF7)Gly â†' Cys by electrospray mass spectrometry. Journal of the American Society for Mass Spectrometry, 2002, 13, 187-191.	2.8	7
212	Identification of N-terminal acetylation in Hb Raleigh (?1Val?Ac-Ala) by electrospray tandem mass spectrometry. Rapid Communications in Mass Spectrometry, 2002, 16, 1793-1796.	1.5	7
213	Detection of a receptor-ligand non-covalent complex using a triple quadrupole mass spectrometer. Rapid Communications in Mass Spectrometry, 2002, 16, 2003-2006.	1.5	7
214	Electrospray mass spectrometry for the direct accurate mass measurement of ligands in complex with the retinoid X receptor Î± ligand binding domain. Journal of the American Society for Mass Spectrometry, 2005, 16, 1631-1640.	2.8	7
215	Oxysterols protect bovine endometrial cells against poreâ€forming toxins from pathogenic bacteria. FASEB Journal, 2021, 35, e21889.	0.5	7
216	Triplet electronic states of the ethene dication. International Journal of Mass Spectrometry and Ion Processes, 1992, 122, 321-329.	1.8	6

#	Article	IF	Citations
217	Doubly ionized states of hexafluorobenzene studied by high-resolution Auger electron and double-charge-transfer spectroscopies. Journal of the Chemical Society, Faraday Transactions, 1993, 89, 1637-1643.	1.7	6
218	Triplet electronic states of the doubly charged ion of acetone: a combined theoretical and experimental study. International Journal of Mass Spectrometry and Ion Processes, 1994, 134, 197-201.	1.8	6
219	Metabolic Network Analysis Reveals Altered Bile Acid Synthesis and Cholesterol Metabolism in Alzheimerâ€™s Disease. SSRN Electronic Journal, 0, , .	0.4	6
220	Double ionization energies to form the C2H2+6 ion in triplet ground and electronically excited states. International Journal of Mass Spectrometry and Ion Processes, 1991, 110, 135-143.	1.8	5
221	A Reaction Window in Cross-sections for Double-electron-capture Reactions. Rapid Communications in Mass Spectrometry, 1996, 10, 997-1000.	1.5	5
222	Identification of variant forms of the neuroendocrine peptide galanin. Rapid Communications in Mass Spectrometry, 2004, 18, 1583-1591.	1.5	5
223	Specificity of receptor-ligand interactions and their effect on dimerisation as observed by electrospray mass spectrometry: bile acids form stable adducts to the RXRÎ±. Journal of Mass Spectrometry, 2005, 40, 1448-1461.	1.6	5
224	The Importance of Steroidomics in the Study of Neurodegenerative Disease and Ageing. Combinatorial Chemistry and High Throughput Screening, 2009, 12, 212-228.	1.1	5
225	Regulation and feedback of cholesterol metabolism. Nature Precedings, 2011, , .	0.1	5
226	Charge-remote fragmentation of taurine-conjugated bile acids. Rapid Communications in Mass Spectrometry, 1991, 5, 391-394.	1.5	4
227	Measured and calculated double-ionization energies of the chlorofluoroethane molecules CF3CF2Cl, CF3CFCl2, CF3CCl3, CF2ClCF2Cl, CF2ClCFCl2, CF2ClCCl3, CFCl2CFCl2 and CFCl2CCl3. International Journal of Mass Spectrometry and Ion Processes, 1993, 124, 251-257.	1.8	4
228	Double ionization of the n-alkyl iodides C2H5I, C3H7I and C4H9I. Journal of the Chemical Society, Faraday Transactions, 1996, 92, 3293.	1.7	4
229	Are 15-oxygenated sterols present in the human circulation?. Journal of Lipid Research, 2011, 52, 4-5.	4.2	4
230	Shotgun cholanomics of ileal fluid. Biochimie, 2013, 95, 461-463.	2.6	4
231	Experimental evidence for two different structures of the H3Oâ˜ ion and two different structures of the H3O+ ion. International Journal of Mass Spectrometry and Ion Processes, 1988, 85, 339-355.	1.8	3
232	Why steroidomics in brain?. European Journal of Lipid Science and Technology, 2006, 108, 707-708.	1.5	3
233	Synthesis and biological activity of (24E)- and (24Z)-26-hydroxydesmosterol. Bioorganic and Medicinal Chemistry, 2013, 21, 5794-5798.	3.0	3
234	Oxysterols. Biochemical and Biophysical Research Communications, 2014, 446, 645-646.	2.1	3

#	Article	IF	Citations
235	Standardizing and increasing the utility of lipidomics: a look to the next decade. Expert Review of Proteomics, 2020, 17, 699-717.	3.0	3
236	Analytical Approaches to Alcohol Dehydrogenase Structures. Advances in Experimental Medicine and Biology, 1995, 372, 417-426.	1.6	3
237	Analysis of the major mercapturic acid pathway metabolites of benzo[a]pyrene found in rat urine by nano-electrospray mass spectrometry. , 1998, 12, 465-471.		2
238	Gas-Phase Conformation Can Have an Influence on Peptide Fragmentation. European Journal of Mass Spectrometry, 2001, 7, 89-99.	1.0	2
239	Identification of a potent antibacterial factor isolated from bronchoalveolar lavage fluid: guanidine,N-[3-[(aminoiminomethyl)amino]propyl]-N-dodecyl-, a potential source of error in the analysis of antibacterial agents. Rapid Communications in Mass Spectrometry, 2003, 17, 183-191.	1.5	2
240	Haemoglobin SÃ¶dertÃlje (Î²118 Pheâ†'Val): a new mutation in human haemoglobin identified by electrospray ionisation mass spectrometry. Rapid Communications in Mass Spectrometry, 2006, 20, 3481-3482.	1.5	2
241	Introduction and Overview of Lipidomic Strategies. Neuromethods, 2017, , 1-11.	0.3	2
242	Double-ionization energies to singlet and triplet electronic states of the acetaldehyde dication measured by double-charge-transfer spectroscopy. International Journal of Mass Spectrometry and Ion Processes, 1994, 139, 163-168.	1.8	1
243	Letter: Differentiation of isomeric mercapturic acid pathway metabolites of benzo[a]pyrene. European Journal of Mass Spectrometry, 1997, 3, 396.	0.7	1
244	Identification and characterisation of endogenous LXR ligands in ventral midbrain development. Neuroscience Research, 2011, 71, e50.	1.9	1
245	Developing an Enzyme-Assisted Derivatization Method for Analysis of C27 Bile Alcohols and Acids by Electrospray Ionization-Mass Spectrometry. Molecules, 2019, 24, 597.	3.8	1
246	Electrospray/Collisionâ€induced Dissociation Mass Spectrometry of Mono-, Di- and Triâ€hydroxylated Lipoxygenase Products, Including Leukotrienes of the B-Series and Lipoxins. Rapid Communications in Mass Spectrometry, 1996, 10, 183-196.	1.5	1
247	CHAPTER 10. New Scans and Resources in Lipidomics. New Developments in Mass Spectrometry, 2020, , 263-282.	0.2	1
248	CHAPTER 6. Derivatisation for Direct Infusionâ€“ and Liquid Chromatographyâ€“Mass Spectrometry. New Developments in Mass Spectrometry, 2020, , 122-147.	0.2	1
249	Amended interpretation of the results obtained in an experimental investigation of the structure of the H3Oâ˜' ion. International Journal of Mass Spectrometry and Ion Processes, 1989, 87, R25.	1.8	0
250	30 Antimicrobial Components of Vernix Caseosa. Pediatric Research, 2004, 56, 469-469.	2.3	0
251	Development and application of novel analytical methods in lipidomics. , 2013, , 49-80.		0
252	Lipidomics in Metabolomics. , 2014, , 157-164.		0

#	Article	IF	Citations
253	Tandem Mass Spectrometry of Alcohol Dehydrogenase and Related Biomolecules. Advances in Experimental Medicine and Biology, 1999, 463, 305-310.	1.6	0
254	Liquid Chromatography-Mass Spectrometry of Sterols. , 2017, , 1-16.		0
255	Induction and characterisation of a 25-hydroxycholesterol associated immune response to Gram positive and negative bacteria in a whole blood model of sepsis. Access Microbiology, 2019, 1, .	0.5	0
256	CHAPTER 1. Lipidomics Basics. New Developments in Mass Spectrometry, 2020, , 1-24.	0.2	0
257	Analysis of Bile Acids and Bile Alcohols in Urine by Capillary Column Liquid Chromatographyâ€“Mass Spectrometry using Fast Atom Bombardment or Electrospray Ionization and Collisionâ€induced Dissociation. Biomedical Chromatography, 1997, 11, 240-255.	1.7	0
258	Nanoâ€electrospray tandem mass spectrometry for the analysis of neurosteroid sulphatesâ€. Rapid Communications in Mass Spectrometry, 1999, 13, 1595-1610.	1.5	0