J Thomas Brenna

List of Publications by Year
in descending order

287	13,306	22099	33814
papers	citations	59 h-index	99 g-index

296	296	296	12220
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Î±-Linolenic acid supplementation and conversion to n-3 long-chain polyunsaturated fatty acids in humans. Prostaglandins Leukotrienes and Essential Fatty Acids, 2009, 80, 85-91.	1.0	700
2	Docosahexaenoic and arachidonic acid concentrations in human breast milk worldwide. American Journal of Clinical Nutrition, 2007, 85, 1457-1464.	2.2	578
3	Efficiency of conversion of Î±-linolenic acid to long chain n-3 fatty acids in man. Current Opinion in Clinical Nutrition and Metabolic Care, 2002, 5, 127-132.	1.3	413
4	Dietary fat intakes for pregnant and lactating women. British Journal of Nutrition, 2007, 98, 873-877.	1.2	382
5	Saturated Fats and Health: AÂReassessment and Proposal for Food-Based Recommendations. Journal of the American College of Cardiology, 2020, 76, 844-857.	1.2	302
6	High-precision continuous-flow isotope ratio mass spectrometry. , 1997, 16, 227-258.		282
7	The 2015 Dietary Guidelines Advisory Committee Scientific Report: Development and Major Conclusions. Advances in Nutrition, 2016, 7, 438-444.	2.9	224
8	Highly unsaturated fatty acids in nature: what we know and what we need to learn. Oikos, 2016, 125, 749-760.	1.2	182
9	Breast-fed infants achieve a higher rate of brain and whole body docosahexaenoate accumulation than formula-fed infants not consuming dietary docosahexaenoate. Lipids, 2000, 35, 105-111.	0.7	180
10	An alternate pathway to long-chain polyunsaturates: the FADS2 gene product Î”8-desaturates 20:2n-6 and 20:3n-3. Journal of Lipid Research, 2009, 50, 1195-1202.	2.0	175
11	The influence of long chain polyunsaturate supplementation on docosahexaenoic acid and arachidonic acid in baboon neonate central nervous system. BMC Medicine, 2005, 3, 11.	2.3	173
12	Branched Chain Fatty Acids Reduce the Incidence of Necrotizing Enterocolitis and Alter Gastrointestinal Microbial Ecology in a Neonatal Rat Model. PLoS ONE, 2011, 6, e29032.	1.1	168
13	Omega-3 long-chain polyunsaturated fatty acids support aerial insectivore performance more than food quantity. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 10920-10925.	3.3	164
14	Polyunsaturated fatty acids and fatty acid-derived lipid mediators: Recent advances in the understanding of their biosynthesis, structures, and functions. Progress in Lipid Research, 2022, 86, 101165.	5.3	164
15	The influence of dietary docosahexaenoic acid and arachidonic acid on central nervous system polyunsaturated fatty acid composition. Prostaglandins Leukotrienes and Essential Fatty Acids, 2007, 77, 247-250.	1.0	160
16	High sensitivity tracer detection using high-precision gas chromatography-combustion isotope ratio mass spectrometry and highly enriched uniformly carbon-13 labeled precursors. Analytical Chemistry, 1992, 64, 1088-1095.	3.2	158
17	Efficacy of Dietary Arachidonic Acid Provided as Triglyceride or Phospholipid as Substrates for Brain Arachidonic Acid Accretion in Baboon Neonates. Pediatric Research, 2002, 51, 265-272.	1.1	155
18	Disruption of FADS2 gene in mice impairs male reproduction and causes dermal and intestinal ulceration. Journal of Lipid Research, 2009, 50, 1870-1880.	2.0	150

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19	Desaturase and elongase-limiting endogenous long-chain polyunsaturated fatty acid biosynthesis. Current Opinion in Clinical Nutrition and Metabolic Care, 2016, 19, 103-110.	1.3	146
20	Docosahexaenoic acid and human brain development: Evidence that aÂdietary supply is needed for optimal development. Journal of Human Evolution, 2014, 77, 99-106.	1.3	140
21	Best practices for the design, laboratory analysis, and reporting of trials involving fatty acids. American Journal of Clinical Nutrition, 2018, 108, 211-227.	2.2	138
22	Omega-3 fatty acids, energy substrates, and brain function during aging. Prostaglandins Leukotrienes and Essential Fatty Acids, 2006, 75, 213-220.	1.0	133
23	Altered cholesterol and fatty acid metabolism in Huntington disease. Journal of Clinical Lipidology, 2010, 4, 17-23.	0.6	126
24	Branched-chain fatty acid content of foods and estimated intake in the USA. British Journal of Nutrition, 2014, 112, 565-572.	1.2	121
25	Bioequivalence of Dietary Î±-Linolenic and Docosahexaenoic Acids as Sources of Docosahexaenoate Accretion in Brain and Associated Organs of Neonatal Baboons. Pediatric Research, 1999, 45, 87-93.	1.1	118
26	The fatty acid desaturase 2 (FADS2) gene product catalyzes Î”4 desaturation to yield n-3 docosahexaenoic acid and n-6 docosapentaenoic acid in human cells. FASEB Journal, 2015, 29, 3911-3919.	0.2	109
27	Acetonitrile Chemical Ionization Tandem Mass Spectrometry To Locate Double Bonds in Polyunsaturated Fatty Acid Methyl Esters. Analytical Chemistry, 1999, 71, 1981-1989.	3.2	108
28	Branched Chain Fatty Acids Are Constituents of the Normal Healthy Newborn Gastrointestinal Tract. Pediatric Research, 2008, 64, 605-609.	1.1	106
29	Brain Docosahexaenoate Accretion in Fetal Baboons: Bioequivalence of Dietary Î±-Linolenic and Docosahexaenoic Acids. Pediatric Research, 1997, 42, 826-834.	1.1	106
30	Large carbon cluster ion formation by laser ablation of polyimide and graphite. Chemical Physics, 1988, 126, 453-468.	0.9	105
31	High-precision position-specific isotope analysis. Proceedings of the National Academy of Sciences of the United States of America, 1997, 94, 1049-1053.	3.3	99
32	Plasma incorporation, apparent retroconversion and Î²-oxidation of 13C-docosahexaenoic acid in the elderly. Nutrition and Metabolism, 2011, 8, 5.	1.3	93
33	Formation of high mass carbon cluster ions from laser ablation of polymers and thin carbon films. Journal of Chemical Physics, 1990, 92, 2269-2279.	1.2	92
34	The ER-Associated Degradation Adaptor Protein Sel1L Regulates LPL Secretion and Lipid Metabolism. Cell Metabolism, 2014, 20, 458-470.	7.2	92
35	Sustainable production of housefly (Musca domestica) larvae as a protein-rich feed ingredient by utilizing cattle manure. PLoS ONE, 2017, 12, e0171708.	1.1	90
36	Background Paper on Fat and Fatty Acid Requirements during Pregnancy and Lactation. Annals of Nutrition and Metabolism, 2009, 55, 97-122.	1.0	88

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37	Should formula for infants provide arachidonic acid along with DHA? A position paper of the European Academy of Paediatrics and the Child Health Foundation. American Journal of Clinical Nutrition, 2020, 111, 10-16.	2.2	88
38	Pregnancy alters choline dynamics: results of a randomized trial using stable isotope methodology in pregnant and nonpregnant women. American Journal of Clinical Nutrition, 2013, 98, 1459-1467.	2.2	85
39	Curve Fitting for Restoration of Accuracy for Overlapping Peaks in Gas Chromatography/Combustion Isotope Ratio Mass Spectrometry. Analytical Chemistry, 1994, 66, 1294-1301.	3.2	82
40	Higher efficacy of dietary DHA provided as a phospholipid than as a triglyceride for brain DHA accretion in neonatal piglets. Journal of Lipid Research, 2014, 55, 531-539.	2.0	81
41	Docosahexaenoic Acid Modulates the Interactions of the Interphotoreceptor Retinoid-binding Protein with 11-cis-Retinal. Journal of Biological Chemistry, 1996, 271, 20507-20515.	1.6	79
42	Acetonitrile Covalent Adduct Chemical Ionization Mass Spectrometry for Double Bond Localization in Non-Methylene-Interrupted Polyene Fatty Acid Methyl Esters. Analytical Chemistry, 2006, 78, 1312-1317.	3.2	78
43	Delay of Preterm Delivery in Sheep by Omega-3 Long-Chain Polyunsaturates1. Biology of Reproduction, 1999, 60, 698-701.	1.2	76
44	Positive Selection on a Regulatory Insertionâ€“Deletion Polymorphism inFADS2Influences Apparent Endogenous Synthesis of Arachidonic Acid. Molecular Biology and Evolution, 2016, 33, 1726-1739.	3.5	76
45	Relationships between seafood consumption during pregnancy and childhood and neurocognitive development: Two systematic reviews. Prostaglandins Leukotrienes and Essential Fatty Acids, 2019, 151, 14-36.	1.0	75
46	Disturbance in uniformly¹³C-labelled DHA metabolism in elderly human subjects carrying the apoE Îµ4 allele. British Journal of Nutrition, 2013, 110, 1751-1759.	1.2	74
47	Animal studies of the functional consequences of suboptimal polyunsaturated fatty acid status during pregnancy, lactation and early postâ€natal life. Maternal and Child Nutrition, 2011, 7, 59-79.	1.4	73
48	Fetal baboons convert 18:3n-3 to 22:6n-3 in vivo: a stable isotope tracer study. Journal of Lipid Research, 2001, 42, 581-586.	2.0	73
49	High-precision liquid chromatography-combustion isotope ratio mass spectrometry. Analytical Chemistry, 1993, 65, 3497-3500.	3.2	72
50	Identification and Characterization of Conjugated Fatty Acid Methyl Esters of Mixed Double Bond Geometry by Acetonitrile Chemical Ionization Tandem Mass Spectrometry. Analytical Chemistry, 2003, 75, 4925-4930.	3.2	72
51	MTHFR C677T genotype influences the isotopic enrichment of one-carbon metabolites in folate-compromised men consuming d9-choline. American Journal of Clinical Nutrition, 2011, 93, 348-355.	2.2	72
52	High-precision gas isotope ratio mass spectrometry: recent advances in instrumentation and biomedical applications. Accounts of Chemical Research, 1994, 27, 340-346.	7.6	71
53	Recycling of Carbon into Lipids Synthesized De Novo Is a Quantitatively Important Pathway of Î±â€[Uâ€¹³C]Linolenate Utilization in the Developing Rat Brain. Journal of Neurochemistry, 1998, 71, 2151-2158.	2.1	71
54	Arachidonic acid needed in infant formula when docosahexaenoic acid is present. Nutrition Reviews, 2016, 74, 329-336.	2.6	67

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55	Steroid isotopic standards for gas chromatography-combustion isotope ratio mass spectrometry (GCC-IRMS). Steroids, 2009, 74, 369-378.	0.8	66
56	The Influence of Moderate and High Dietary Long Chain Polyunsaturated Fatty Acids (LCPUFA) on Baboon Neonate Tissue Fatty Acids. Pediatric Research, 2007, 61, 537-545.	1.1	64
57	BCFA suppresses LPS induced IL-8 mRNA expression in human intestinal epithelial cells. Prostaglandins Leukotrienes and Essential Fatty Acids, 2017, 116, 27-31.	1.0	64
58	FADS3 is a Î”14Z sphingoid base desaturase that contributes to gender differences in the human plasma sphingolipidome. Journal of Biological Chemistry, 2020, 295, 1889-1897.	1.6	64
59	Study of ?-Carotene Metabolism in Humans Using13C-?-Carotene and High Precision Isotope Ratio Mass Spectrometry. Annals of the New York Academy of Sciences, 1993, 691, 86-95.	1.8	63
60	Double bond localization in minor homoallylic fatty acid methyl esters using acetonitrile chemical ionization tandem mass spectrometry. Analytical Biochemistry, 2002, 307, 348-360.	1.1	63
61	The Influence of Prematurity and Long Chain Polyunsaturate Supplementation in 4-Week Adjusted Age Baboon Neonate Brain and Related Tissues. Pediatric Research, 2003, 54, 244-252.	1.1	63
62	Individual Trans Octadecenoic Acids and Partially Hydrogenated Vegetable Oil Differentially Affect Hepatic Lipid and Lipoprotein Metabolism in Golden Syrian Hamsters. Journal of Nutrition, 2009, 139, 257-263.	1.3	63
63	Characterization of cis-9 trans-11 trans-15 C18:3 in milk fat by GC and covalent adduct chemical ionization tandem MS. Journal of Lipid Research, 2009, 50, 2412-2420.	2.0	62
64	Palmitic acid (16:0) competes with omega-6 linoleic and omega-3 É‘-linolenic acids for FADS2 mediated Î”6-desaturation. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2016, 1861, 91-97.	1.2	61
65	Dietary Zinc Deficiency Affects Blood Linoleic Acid: Dihomo-Î³-linolenic Acid (LA:DGLA) Ratio; a Sensitive Physiological Marker of Zinc Status in Vivo (Gallus gallus). Nutrients, 2014, 6, 1164-1180.	1.7	60
66	Natural intramolecular isotope measurements in physiology: elements of the case for an effort toward high-precision position-specific isotope analysis. Rapid Communications in Mass Spectrometry, 2001, 15, 1252-1262.	0.7	58
67	Comprehensive Two-Dimensional Gas Chromatography Combustion Isotope Ratio Mass Spectrometry. Analytical Chemistry, 2008, 80, 8613-8621.	3.2	56
68	Desaturation and interconversion of dietary stearic and palmitic acids in human plasma and lipoproteins. American Journal of Clinical Nutrition, 1997, 65, 451-458.	2.2	55
69	Folate Intake,MthfrGenotype, and Sex Modulate Choline Metabolism in Mice. Journal of Nutrition, 2011, 141, 1475-1481.	1.3	54
70	Aquatic and terrestrial resources are not nutritionally reciprocal for consumers. Functional Ecology, 2019, 33, 2042-2052.	1.7	54
71	Branched Chain Fatty Acid Content of United States Retail Cow's Milk and Implications for Dietary Intake. Lipids, 2011, 46, 569-576.	0.7	53
72	Quantitative evaluation of carbon isotopic fractionation during reversed-phase high-performance liquid chromatography. Journal of Chromatography A, 1997, 757, 307-310.	1.8	50

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73	Differential Cerebral Cortex Transcriptomes of Baboon Neonates Consuming Moderate and High Docosahexaenoic Acid Formulas. PLoS ONE, 2007, 2, e370.	1.1	49
74	FADS2 Function Loss at the Cancer Hotspot 11q13 Locus Diverts Lipid Signaling Precursor Synthesis to Unusual Eicosanoid Fatty Acids. PLoS ONE, 2011, 6, e28186.	1.1	49
75	Atmospheric Pressure Covalent Adduct Chemical Ionization Tandem Mass Spectrometry for Double Bond Localization in Monoene- and Diene-Containing Triacylglycerols. Analytical Chemistry, 2007, 79, 2525-2536.	3.2	48
76	Formula feeding potentiates docosahexaenoic and arachidonic acid biosynthesis in term and preterm baboon neonates. Journal of Lipid Research, 2004, 45, 71-80.	2.0	47
77	Nd:YAG laser microprobe system for Fourierâ€transform ion cyclotron resonance mass spectrometry. Review of Scientific Instruments, 1988, 59, 873-879.	0.6	46
78	Dietary docosahexaenoic acid but not arachidonic acid influences central nervous system fatty acid status in baboon neonates. Prostaglandins Leukotrienes and Essential Fatty Acids, 2009, 81, 105-110.	1.0	46
79	Dietary long-chain polyunsaturated fatty acids upregulate expression of FADS3 transcripts. Prostaglandins Leukotrienes and Essential Fatty Acids, 2013, 88, 15-19.	1.0	46
80	Effect of sex hormones on n-3 polyunsaturated fatty acid biosynthesis in HepG2 cells and in human primary hepatocytes. Prostaglandins Leukotrienes and Essential Fatty Acids, 2014, 90, 47-54.	1.0	46
81	Studies of structure and mechanism in acetonitrile chemical ionization tandem mass spectrometry of polyunsaturated fatty acid methyl esters. Journal of the American Society for Mass Spectrometry, 1999, 10, 1253-1262.	1.2	45
82	Branched-chain fatty acid composition of human milk and the impact of maternal diet: the Global Exploration of Human Milk (GEHM) Study. American Journal of Clinical Nutrition, 2017, 105, 177-184.	2.2	45
83	Detection and localization of silicon and associated elements in vertebrate bone tissue by imaging ion microscopy. Calcified Tissue International, 1986, 38, 52-59.	1.5	44
84	Sourcing Organic Compounds Based on Natural Isotopic Variations Measured by High Precision Isotope Ratio Mass Spectrometry. Current Organic Chemistry, 2003, 7, 1527-1543.	0.9	44
85	A novel FADS1 isoform potentiates FADS2-mediated production of eicosanoid precursor fatty acids. Journal of Lipid Research, 2012, 53, 1502-1512.	2.0	44
86	Saturated Branched Chain, Normal Odd-Carbon-Numbered, and n-3 (Omega-3) Polyunsaturated Fatty Acids in Freshwater Fish in the Northeastern United States. Journal of Agricultural and Food Chemistry, 2016, 64, 7512-7519.	2.4	44
87	Pomegranate seed oil reduces intestinal damage in a rat model of necrotizing enterocolitis. American Journal of Physiology - Renal Physiology, 2012, 303, G744-G751.	1.6	43
88	On-Line Pyrolysis as a Limitless Reduction Source for High-Precision Isotopic Analysis of Organic-Derived Hydrogen. Analytical Chemistry, 1997, 69, 3148-3152.	3.2	42
89	Novel fatty acid desaturase 3 (FADS3) transcripts generated by alternative splicing. Gene, 2009, 446, 28-34.	1.0	42
90	Regular-Fat Dairy and Human Health: A Synopsis of Symposia Presented in Europe and North America (2014â€“2015). Nutrients, 2016, 8, 463.	1.7	42

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91	Dietary 18:3n-3 and 22:6n-3 as sources of 22:6n-3 accretion in neonatal baboon brain and associated organs. Lipids, 1999, 34, S347-S350.	0.7	41
92	Insertionâ€“deletions in a FADS2 intron 1 conserved regulatory locus control expression of fatty acid desaturases 1 and 2 and modulate response to simvastatin. Prostaglandins Leukotrienes and Essential Fatty Acids, 2012, 87, 25-33.	1.0	41
93	Multiple Micronutrient Supplementation Transiently Ameliorates Environmental Enteropathy in Malawian Children Aged 12â€“35 Months in a Randomized Controlled Clinical Trial. Journal of Nutrition, 2014, 144, 2059-2065.	1.3	41
94	The European Food Safety Authority recommendation for polyunsaturated fatty acid composition of infant formula overrules breast milk, puts infants at risk, and should be revised. Prostaglandins Leukotrienes and Essential Fatty Acids, 2015, 102-103, 1-3.	1.0	41
95	Polyunsaturated fatty acid biosynthesis pathway and genetics. implications for interindividual variability in prothrombotic, inflammatory conditions such as COVID-19âœ°,âœ°âœ°,â˜…,â˜…â˜…. Prostaglandins Leukotrienes and Essential Fatty Acids, 2020, 162, 102183.	1.0	41
96	Detection of Synthetic Testosterone Use by Novel Comprehensive Two-Dimensional Gas Chromatography Combustionâ€“Isotope Ratio Mass Spectrometry. Analytical Chemistry, 2011, 83, 7158-7165.	3.2	40
97	Structural characterization of saturated branched chain fatty acid methyl esters by collisional dissociation of molecular ions generated by electron ionization. Journal of Lipid Research, 2012, 53, 195-203.	2.0	40
98	Kinetics of 13C-DHA before and during fish-oil supplementation in healthy older individuals. American Journal of Clinical Nutrition, 2014, 100, 105-112.	2.2	40
99	Imbalance of folic acid and vitamin B12 is associated with birth outcome: an Indian pregnant women study. European Journal of Clinical Nutrition, 2014, 68, 726-729.	1.3	40
100	Dietary Saturated Fats and Health: Are the U.S. Guidelines Evidence-Based?. Nutrients, 2021, 13, 3305.	1.7	40
101	An octaene fatty acid, 4,7,10,13,16,19,22,25-octacosaoctaenoic acid (28:8nâ€“3), found in marine oils. Journal of Lipid Research, 1999, 40, 1501-1505.	2.0	40
102	High-Precision D/H Measurement from Hydrogen Gas and Water by Continuous-Flow Isotope Ratio Mass Spectrometry. Analytical Chemistry, 1995, 67, 2486-2492.	3.2	39
103	Alternative transcripts of fatty acid desaturase (FADS) genes. Prostaglandins Leukotrienes and Essential Fatty Acids, 2010, 82, 281-285.	1.0	39
104	Docosahexaenoic and Arachidonic Acid Influence on Preterm Baboon Retinal Composition and Function. , 2003, 44, 4559.		38
105	Electron transfer dissociation of doubly sodiated glycerophosphocholine lipids. Journal of the American Society for Mass Spectrometry, 2007, 18, 1783-1788.	1.2	38
106	Mice lacking FABP9/PERF15 develop sperm head abnormalities but are fertile. Developmental Biology, 2010, 348, 177-189.	0.9	38
107	Quantitative analysis of volatiles in edible oils following accelerated oxidation using broad spectrum isotope standards. Food Chemistry, 2015, 174, 310-318.	4.2	38
108	Metabolic fate of docosahexaenoic acid (<scp>DHA</scp>; 22:6nâ€‘3) in human cells: direct retroconversion of <scp>DHA</scp> to eicosapentaenoic acid (20:5nâ€‘3) dominates over elongation to tetracosahexaenoic acid (24:6nâ€‘3). FEBS Letters, 2016, 590, 3188-3194.	1.3	37

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109	Maternal Choline Supplementation Modulates Placental Nutrient Transport and Metabolism in Late Gestation of Mouse Pregnancy. Journal of Nutrition, 2017, 147, 2083-2092.	1.3	37
110	Branched-Chain Fatty Acids in the Neonatal Gut and Estimated Dietary Intake in Infancy and Adulthood. Nestle Nutrition Institute Workshop Series, 2013, 77, 133-143.	1.5	35
111	Linoleic acid kinetics and conversion to arachidonic acid in the pregnant and fetal baboon. Journal of Lipid Research, 1999, 40, 1304-1311.	2.0	35
112	Identification and Mapping of Phosphocholine in Animal Tissue by Static Secondary Ion Mass Spectrometry and Tandem Mass Spectrometry. , 1996, 10, 335-340.		34
113	High-Precision D/H Measurement from Organic Mixtures by Gas Chromatography Continuous-Flow Isotope Ratio Mass Spectrometry Using a Palladium Filter. Analytical Chemistry, 1996, 68, 3002-3007.	3.2	34
114	Straight-Chain Acyl-CoA Oxidase Knockout Mouse Accumulates Extremely Long Chain Fatty Acids from Î±-Linolenic Acid: Evidence for Runaway Carousel-Type Enzyme Kinetics in Peroxisomal Î²-Oxidation Diseases. Molecular Genetics and Metabolism, 2002, 75, 108-119.	0.5	34
115	Differential Tissue Dose Responses of (n-3) and (n-6) PUFA in Neonatal Piglets Fed Docosahexaenoate and Arachidonoate3. Journal of Nutrition, 2007, 137, 2049-2055.	1.3	34
116	Application of comprehensive two-dimensional gas chromatography to sterols analysis. Journal of Chromatography A, 2008, 1214, 134-142.	1.8	34
117	The role of fatty acid desaturase (FADS) genes in oleic acid metabolism: FADS1 Î”7 desaturates 11-20:1 to 7,11-20:2. Prostaglandins Leukotrienes and Essential Fatty Acids, 2018, 128, 21-25.	1.0	34
118	15N/14N Position-Specific Isotopic Analyses of Polynitrogenous Amino Acids. Analytical Chemistry, 2005, 77, 1013-1019.	3.2	33
119	Highâ€Oleic Readyâ€toâ€Use Therapeutic Food Maintains Docosahexaenoic Acid Status in Severe Malnutrition. Journal of Pediatric Gastroenterology and Nutrition, 2015, 61, 138-143.	0.9	33
120	High-precision gas chromatography-combustion isotope ratio mass spectrometry at low signal levels. Journal of Chromatography A, 1995, 689, 63-68.	1.8	32
121	Increasing dietary linoleic acid in young rats increases and then decreases docosahexaenoic acid in retina but not in brain. Lipids, 1996, 31, 1289-1298.	0.7	32
122	Simultaneous Measurement of Desaturase Activities Using Stable Isotope Tracers or a Nontracer Method. Analytical Biochemistry, 1998, 261, 43-50.	1.1	32
123	Fast Gas Chromatography Combustion Isotope Ratio Mass Spectrometry. Analytical Chemistry, 2007, 79, 6348-6358.	3.2	32
124	The Influence of Maternal Early to Midâ€Gestation Nutrient Restriction on Long Chain Polyunsaturated Fatty Acids in Fetal Sheep. Lipids, 2008, 43, 525-531.	0.7	32
125	BCFA-enriched vernix-monoacylglycerol reduces LPS-induced inflammatory markers in human enterocytes in vitro. Pediatric Research, 2018, 83, 874-879.	1.1	32
126	High levels of branched chain fatty acids in nÄ‡to and other Asian fermented foods. Food Chemistry, 2019, 286, 428-433.	4.2	32

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127	Quantitative Subfemtomole Analysis of Î±-Tocopherol and Deuterated Isotopomers in Plasma Using Tabletop GC/MS/MS. Analytical Chemistry, 1998, 70, 4369-4375.	3.2	31
128	Gas chromatography-chemical ionization-mass spectrometric fatty acid analysis of a commercial supercritical carbon dioxide lipid extract from New Zealand green-lipped mussel (Perna canaliculus). Lipids, 2005, 40, 355-360.	0.7	31
129	On the formation of conjugated linoleic acid diagnostic ions with acetonitrile chemical ionization tandem mass spectrometry. Rapid Communications in Mass Spectrometry, 2005, 19, 363-368.	0.7	29
130	Long-chain polyunsaturated fatty acids attenuate the IL-1Î²-induced proinflammatory response in human fetal intestinal epithelial cells. Pediatric Research, 2015, 78, 626-633.	1.1	29
131	Dose-response effects of betamethasone on maturation of the fetal sheep lung. American Journal of Obstetrics and Gynecology, 2010, 202, 186.e1-186.e7.	0.7	28
132	Calibration and data processing in gas chromatography combustion isotope ratio mass spectrometry. Drug Testing and Analysis, 2012, 4, 912-922.	1.6	28
133	Acyl-CoA synthetase 6 enriches seminiferous tubules with the Ï‰-3 fatty acid docosahexaenoic acid and is required for male fertility in the mouse. Journal of Biological Chemistry, 2019, 294, 14394-14405.	1.6	28
134	Use of stable isotopes to study fatty acid and lipoprotein metabolism in man. Prostaglandins Leukotrienes and Essential Fatty Acids, 1997, 57, 467-472.	1.0	27
135	Plasma oxylipin profiling identifies polyunsaturated vicinal diols as responsive to arachidonic acid and docosahexaenoic acid intake in growing piglets. Journal of Lipid Research, 2013, 54, 1598-1607.	2.0	27
136	Ionization probability variations due to matrix in ion microscopic analysis of plastic-embedded and ashed biological specimens. Analytical Chemistry, 1986, 58, 1675-1680.	3.2	26
137	Condensed-Phase Carbon Isotopic Standards for Compound-Specific Isotope Analysis. Analytical Chemistry, 1994, 66, 2989-2991.	3.2	26
138	High-sensitivity liquid chromatography-combustion isotope ratio mass spectrometry of fat-soluble vitamins. Journal of Mass Spectrometry, 1995, 30, 466-472.	0.7	26
139	[12] Assessing metabolism of Î²-[13C]carotene using high-precision isotope ratio mass spectrometry. Methods in Enzymology, 1997, 282, 130-140.	0.4	26
140	Fatty acid desaturase 2 (FADS2) but not FADS1 desaturates branched chain and odd chain saturated fatty acids. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2020, 1865, 158572.	1.2	25
141	Fatty acid carbon isotope ratios in humans on controlled diets. Lipids, 1997, 32, 1257-1263.	0.7	24
142	Balancing omega-6 and omega-3 fatty acids in ready-to-use therapeutic foods (RUTF). BMC Medicine, 2015, 13, 117.	2.3	24
143	A regulatory insertion-deletion polymorphism in the FADS gene cluster influences PUFA and lipid profiles among Chinese adults: a population-based study. American Journal of Clinical Nutrition, 2018, 107, 867-875.	2.2	24
144	Genome-wide association study of fish oil supplementation on lipid traits in 81,246 individuals reveals new gene-diet interaction loci. PLoS Genetics, 2021, 17, e1009431.	1.5	24

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145	High-Molecular-Weight Polymer Analysis by Laser Microprobe Fourier Transform Ion Cyclotron Resonance Mass Spectrometry. Applied Spectroscopy, 1991, 45, 80-91.	1.2	23
146	On-line pyrolysis of hydrocarbons coupled to high-precision carbon isotope ratio analysis. Analytica Chimica Acta, 1999, 397, 217-224.	2.6	23
147	Fatty acid analysis by high resolution gas chromatography and mass spectrometry for clinical and experimental applications. Current Opinion in Clinical Nutrition and Metabolic Care, 2013, 16, 548-554.	1.3	23
148	Fads3 modulates docosahexaenoic acid in liver and brain. Prostaglandins Leukotrienes and Essential Fatty Acids, 2017, 123, 25-32.	1.0	23
149	Runx1 Role in Epithelial and Cancer Cell Proliferation Implicates Lipid Metabolism and Scd1 and Soat1 Activity. Stem Cells, 2018, 36, 1603-1616.	1.4	23
150	The polypyrimidine tract binding protein regulates desaturase alternative splicing and PUFA composition. Journal of Lipid Research, 2011, 52, 2279-2286.	2.0	22
151	Conversion efficiency of alpha linolenic acid to omega-3 highly unsaturated fatty acids in aerial insectivore chicks. Journal of Experimental Biology, 2018, 221, .	0.8	22
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