

# J Thomas Brenna

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

280  
papers

10,498  
citations

55  
h-index

89  
g-index

296  
ext. papers

12,009  
ext. citations

4.8  
avg, IF

6.46  
L-index

#	Paper	IF	Citations
280	alpha-Linolenic acid supplementation and conversion to n-3 long-chain polyunsaturated fatty acids in humans. <i>Prostaglandins Leukotrienes and Essential Fatty Acids</i> , <b>2009</b> , 80, 85-91	2.8	578
279	Docosahexaenoic and arachidonic acid concentrations in human breast milk worldwide. <i>American Journal of Clinical Nutrition</i> , <b>2007</b> , 85, 1457-64	7	494
278	Efficiency of conversion of alpha-linolenic acid to long chain n-3 fatty acids in man. <i>Current Opinion in Clinical Nutrition and Metabolic Care</i> , <b>2002</b> , 5, 127-32	3.8	346
277	Dietary fat intakes for pregnant and lactating women. <i>British Journal of Nutrition</i> , <b>2007</b> , 98, 873-7	3.6	328
276	High-precision continuous-flow isotope ratio mass spectrometry. <i>Mass Spectrometry Reviews</i> , <b>1997</b> , 16, 227-58	11	249
275	The 2015 Dietary Guidelines Advisory Committee Scientific Report: Development and Major Conclusions. <i>Advances in Nutrition</i> , <b>2016</b> , 7, 438-44	10	171
274	Breast-fed infants achieve a higher rate of brain and whole body docosahexaenoate accumulation than formula-fed infants not consuming dietary docosahexaenoate. <i>Lipids</i> , <b>2000</b> , 35, 105-11	1.6	160
273	The influence of long chain polyunsaturate supplementation on docosahexaenoic acid and arachidonic acid in baboon neonate central nervous system. <i>BMC Medicine</i> , <b>2005</b> , 3, 11	11.4	151
272	An alternate pathway to long-chain polyunsaturates: the FADS2 gene product Delta8-desaturates 20:2n-6 and 20:3n-3. <i>Journal of Lipid Research</i> , <b>2009</b> , 50, 1195-202	6.3	146
271	Efficacy of dietary arachidonic acid provided as triglyceride or phospholipid as substrates for brain arachidonic acid accretion in baboon neonates. <i>Pediatric Research</i> , <b>2002</b> , 51, 265-72	3.2	141
270	High sensitivity tracer detection using high-precision gas chromatography-combustion isotope ratio mass spectrometry and highly enriched [U-13C]-labeled precursors. <i>Analytical Chemistry</i> , <b>1992</b> , 64, 1088-95	7.8	135
269	The influence of dietary docosahexaenoic acid and arachidonic acid on central nervous system polyunsaturated fatty acid composition. <i>Prostaglandins Leukotrienes and Essential Fatty Acids</i> , <b>2007</b> , 77, 247-50	2.8	134
268	Saturated Fats and Health: A Reassessment and Proposal for Food-Based Recommendations: JACC State-of-the-Art Review. <i>Journal of the American College of Cardiology</i> , <b>2020</b> , 76, 844-857	15.1	128
267	Highly unsaturated fatty acids in nature: what we know and what we need to learn. <i>Oikos</i> , <b>2016</b> , 125, 749-760	4	124
266	Disruption of FADS2 gene in mice impairs male reproduction and causes dermal and intestinal ulceration. <i>Journal of Lipid Research</i> , <b>2009</b> , 50, 1870-80	6.3	119
265	Docosahexaenoic acid and human brain development: evidence that a dietary supply is needed for optimal development. <i>Journal of Human Evolution</i> , <b>2014</b> , 77, 99-106	3.1	118
264	Omega-3 fatty acids, energy substrates, and brain function during aging. <i>Prostaglandins Leukotrienes and Essential Fatty Acids</i> , <b>2006</b> , 75, 213-20	2.8	116

263	Branched chain fatty acids reduce the incidence of necrotizing enterocolitis and alter gastrointestinal microbial ecology in a neonatal rat model. <i>PLoS ONE</i> , <b>2011</b> , 6, e29032	3.7	113
262	Omega-3 long-chain polyunsaturated fatty acids support aerial insectivore performance more than food quantity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2016</b> , 113, 10920-5	11.5	105
261	Bioequivalence of dietary alpha-linolenic and docosahexaenoic acids as sources of docosahexaenoate accretion in brain and associated organs of neonatal baboons. <i>Pediatric Research</i> , <b>1999</b> , 45, 87-93	3.2	105
260	Desaturase and elongase-limiting endogenous long-chain polyunsaturated fatty acid biosynthesis. <i>Current Opinion in Clinical Nutrition and Metabolic Care</i> , <b>2016</b> , 19, 103-10	3.8	104
259	Acetonitrile chemical ionization tandem mass spectrometry to locate double bonds in polyunsaturated fatty acid methyl esters. <i>Analytical Chemistry</i> , <b>1999</b> , 71, 1981-9	7.8	98
258	Large carbon cluster ion formation by laser ablation of polyimide and graphite. <i>Chemical Physics</i> , <b>1988</b> , 126, 453-468	2.3	95
257	The fatty acid desaturase 2 (FADS2) gene product catalyzes $\Delta$ desaturation to yield n-3 docosahexaenoic acid and n-6 docosapentaenoic acid in human cells. <i>FASEB Journal</i> , <b>2015</b> , 29, 3911-9	0.9	92
256	Brain docosahexaenoate accretion in fetal baboons: bioequivalence of dietary alpha-linolenic and docosahexaenoic acids. <i>Pediatric Research</i> , <b>1997</b> , 42, 826-34	3.2	91
255	High-precision position-specific isotope analysis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>1997</b> , 94, 1049-53	11.5	89
254	Altered cholesterol and fatty acid metabolism in Huntington disease. <i>Journal of Clinical Lipidology</i> , <b>2010</b> , 4, 17-23	4.9	85
253	Formation of high mass carbon cluster ions from laser ablation of polymers and thin carbon films. <i>Journal of Chemical Physics</i> , <b>1990</b> , 92, 2269-2279	3.9	84
252	Best practices for the design, laboratory analysis, and reporting of trials involving fatty acids. <i>American Journal of Clinical Nutrition</i> , <b>2018</b> , 108, 211-227	7	84
251	Plasma incorporation, apparent retroconversion and oxidation of $^{13}\text{C}$ -docosahexaenoic acid in the elderly. <i>Nutrition and Metabolism</i> , <b>2011</b> , 8, 5	4.6	81
250	Branched-chain fatty acid content of foods and estimated intake in the USA. <i>British Journal of Nutrition</i> , <b>2014</b> , 112, 565-72	3.6	80
249	Endocrine Hormone Beta-estradiol and Anti-estrogen Letrozole Modulate 20:3 Isomer Production from 20:2n-6 in Human Cancer Cells (P08-119-19). <i>Current Developments in Nutrition</i> , <b>2019</b> , 3,	0.4	78
248	Identification of Elongase Genes Mediating Branched Chain Fatty Acid Elongation (P08-108-19). <i>Current Developments in Nutrition</i> , <b>2019</b> , 3,	0.4	78
247	Branched chain fatty acids are constituents of the normal healthy newborn gastrointestinal tract. <i>Pediatric Research</i> , <b>2008</b> , 64, 605-9	3.2	73
246	Background paper on fat and fatty acid requirements during pregnancy and lactation. <i>Annals of Nutrition and Metabolism</i> , <b>2009</b> , 55, 97-122	4.5	71

245	Curve fitting for restoration of accuracy for overlapping peaks in gas chromatography/combustion isotope ratio mass spectrometry. <i>Analytical Chemistry</i> , <b>1994</b> , 66, 1294-301	7.8	71
244	Pregnancy alters choline dynamics: results of a randomized trial using stable isotope methodology in pregnant and nonpregnant women. <i>American Journal of Clinical Nutrition</i> , <b>2013</b> , 98, 1459-67	7	69
243	Acetonitrile covalent adduct chemical ionization mass spectrometry for double bond localization in non-methylene-interrupted polyene fatty acid methyl esters. <i>Analytical Chemistry</i> , <b>2006</b> , 78, 1312-7	7.8	69
242	Identification and characterization of conjugated fatty acid methyl esters of mixed double bond geometry by acetonitrile chemical ionization tandem mass spectrometry. <i>Analytical Chemistry</i> , <b>2003</b> , 75, 4925-30	7.8	67
241	Delay of preterm delivery in sheep by omega-3 long-chain polyunsaturates. <i>Biology of Reproduction</i> , <b>1999</b> , 60, 698-701	3.9	66
240	Higher efficacy of dietary DHA provided as a phospholipid than as a triglyceride for brain DHA accretion in neonatal piglets. <i>Journal of Lipid Research</i> , <b>2014</b> , 55, 531-9	6.3	65
239	Docosahexaenoic acid modulates the interactions of the interphotoreceptor retinoid-binding protein with 11-cis-retinal. <i>Journal of Biological Chemistry</i> , <b>1996</b> , 271, 20507-15	5.4	63
238	The ER-associated degradation adaptor protein Sel1L regulates LPL secretion and lipid metabolism. <i>Cell Metabolism</i> , <b>2014</b> , 20, 458-70	24.6	62
237	Disturbance in uniformly <sup>13</sup> C-labelled DHA metabolism in elderly human subjects carrying the apoE $\epsilon$ allele. <i>British Journal of Nutrition</i> , <b>2013</b> , 110, 1751-9	3.6	62
236	Fetal baboons convert 18:3n-3 to 22:6n-3 in vivo: a stable isotope tracer study. <i>Journal of Lipid Research</i> , <b>2001</b> , 42, 581-586	6.3	62
235	Animal studies of the functional consequences of suboptimal polyunsaturated fatty acid status during pregnancy, lactation and early post-natal life. <i>Maternal and Child Nutrition</i> , <b>2011</b> , 7 Suppl 2, 59-79 <sup>3-4</sup>		61
234	Recycling of carbon into lipids synthesized de novo is a quantitatively important pathway of alpha-[U- <sup>13</sup> C]linolenate utilization in the developing rat brain. <i>Journal of Neurochemistry</i> , <b>1998</b> , 71, 2151 <sup>6-8</sup>		61
233	MTHFR C677T genotype influences the isotopic enrichment of one-carbon metabolites in folate-compromised men consuming d9-choline. <i>American Journal of Clinical Nutrition</i> , <b>2011</b> , 93, 348-55 <sup>7</sup>		60
232	High-precision gas isotope ratio mass spectrometry: recent advances in instrumentation and biomedical applications. <i>Accounts of Chemical Research</i> , <b>1994</b> , 27, 340-346	24.3	60
231	Sustainable production of housefly ( <i>Musca domestica</i> ) larvae as a protein-rich feed ingredient by utilizing cattle manure. <i>PLoS ONE</i> , <b>2017</b> , 12, e0171708	3.7	59
230	Double bond localization in minor homoallylic fatty acid methyl esters using acetonitrile chemical ionization tandem mass spectrometry. <i>Analytical Biochemistry</i> , <b>2002</b> , 307, 348-60	3.1	59
229	High-precision liquid chromatography-combustion isotope ratio mass spectrometry. <i>Analytical Chemistry</i> , <b>1993</b> , 65, 3497-500	7.8	59
228	The influence of prematurity and long chain polyunsaturate supplementation in 4-week adjusted age baboon neonate brain and related tissues. <i>Pediatric Research</i> , <b>2003</b> , 54, 244-52	3.2	57

227	Positive Selection on a Regulatory Insertion-Deletion Polymorphism in FADS2 Influences Apparent Endogenous Synthesis of Arachidonic Acid. <i>Molecular Biology and Evolution</i> , <b>2016</b> , 33, 1726-39	8.3	57
226	Characterization of cis-9 trans-11 trans-15 C18:3 in milk fat by GC and covalent adduct chemical ionization tandem MS. <i>Journal of Lipid Research</i> , <b>2009</b> , 50, 2412-20	6.3	55
225	Individual trans octadecenoic acids and partially hydrogenated vegetable oil differentially affect hepatic lipid and lipoprotein metabolism in golden Syrian hamsters. <i>Journal of Nutrition</i> , <b>2009</b> , 139, 257-63 <sup>1</sup>	4.3 <sup>1</sup>	55
224	Steroid isotopic standards for gas chromatography-combustion isotope ratio mass spectrometry (GCC-IRMS). <i>Steroids</i> , <b>2009</b> , 74, 369-78	2.8	55
223	Comprehensive two-dimensional gas chromatography combustion isotope ratio mass spectrometry. <i>Analytical Chemistry</i> , <b>2008</b> , 80, 8613-21	7.8	54
222	The influence of moderate and high dietary long chain polyunsaturated fatty acids (LCPUFA) on baboon neonate tissue fatty acids. <i>Pediatric Research</i> , <b>2007</b> , 61, 537-45	3.2	53
221	Study of beta-carotene metabolism in humans using <sup>13</sup> C-beta-carotene and high precision isotope ratio mass spectrometry. <i>Annals of the New York Academy of Sciences</i> , <b>1993</b> , 691, 86-95	6.5	53
220	Natural intramolecular isotope measurements in physiology: elements of the case for an effort toward high-precision position-specific isotope analysis. <i>Rapid Communications in Mass Spectrometry</i> , <b>2001</b> , 15, 1252-62	2.2	51
219	Desaturation and interconversion of dietary stearic and palmitic acids in human plasma and lipoproteins. <i>American Journal of Clinical Nutrition</i> , <b>1997</b> , 65, 451-8	7	50
218	Arachidonic acid needed in infant formula when docosahexaenoic acid is present. <i>Nutrition Reviews</i> , <b>2016</b> , 74, 329-36	6.4	49
217	Dietary zinc deficiency affects blood linoleic acid: dihomo- $\gamma$ -linolenic acid (LA:DGLA) ratio; a sensitive physiological marker of zinc status in vivo ( <i>Gallus gallus</i> ). <i>Nutrients</i> , <b>2014</b> , 6, 1164-80	6.7	49
216	Palmitic acid (16:0) competes with omega-6 linoleic and omega-3 $\gamma$ -linolenic acids for FADS2 mediated $\beta$ -desaturation. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , <b>2016</b> , 1861, 91-97	5	48
215	Relationships between seafood consumption during pregnancy and childhood and neurocognitive development: Two systematic reviews. <i>Prostaglandins Leukotrienes and Essential Fatty Acids</i> , <b>2019</b> , 151, 14-36	2.8	44
214	Folate intake, MTHFR genotype, and sex modulate choline metabolism in mice. <i>Journal of Nutrition</i> , <b>2011</b> , 141, 1475-81	4.1	44
213	Quantitative evaluation of carbon isotopic fractionation during reversed-phase high-performance liquid chromatography. <i>Journal of Chromatography A</i> , <b>1997</b> , 757, 307-10	4.5	44
212	Should formula for infants provide arachidonic acid along with DHA? A position paper of the European Academy of Paediatrics and the Child Health Foundation. <i>American Journal of Clinical Nutrition</i> , <b>2020</b> , 111, 10-16	7	43
211	Branched chain fatty acid content of United States retail cow <sup>Q</sup> milk and implications for dietary intake. <i>Lipids</i> , <b>2011</b> , 46, 569-76	1.6	43
210	Atmospheric pressure covalent adduct chemical ionization tandem mass spectrometry for double bond localization in monoene- and diene-containing triacylglycerols. <i>Analytical Chemistry</i> , <b>2007</b> , 79, 2525-36	7.8	43

209	Differential cerebral cortex transcriptomes of baboon neonates consuming moderate and high docosahexaenoic acid formulas. <i>PLoS ONE</i> , <b>2007</b> , 2, e370	3.7	43
208	Nd:YAG laser microprobe system for Fourier-transform ion cyclotron resonance mass spectrometry. <i>Review of Scientific Instruments</i> , <b>1988</b> , 59, 873-879	1.7	42
207	Dietary long-chain polyunsaturated fatty acids upregulate expression of FADS3 transcripts. <i>Prostaglandins Leukotrienes and Essential Fatty Acids</i> , <b>2013</b> , 88, 15-9	2.8	41
206	Dietary docosahexaenoic acid but not arachidonic acid influences central nervous system fatty acid status in baboon neonates. <i>Prostaglandins Leukotrienes and Essential Fatty Acids</i> , <b>2009</b> , 81, 105-110	2.8	40
205	Formula feeding potentiates docosahexaenoic and arachidonic acid biosynthesis in term and preterm baboon neonates. <i>Journal of Lipid Research</i> , <b>2004</b> , 45, 71-80	6.3	40
204	Studies of structure and mechanism in acetonitrile chemical ionization tandem mass spectrometry of polyunsaturated fatty acid methyl esters. <i>Journal of the American Society for Mass Spectrometry</i> , <b>1999</b> , 10, 1253-62	3.5	40
203	Detection and localization of silicon and associated elements in vertebrate bone tissue by imaging ion microscopy. <i>Calcified Tissue International</i> , <b>1986</b> , 38, 52-9	3.9	40
202	Regular-Fat Dairy and Human Health: A Synopsis of Symposia Presented in Europe and North America (2014-2015). <i>Nutrients</i> , <b>2016</b> , 8,	6.7	40
201	Effect of sex hormones on n-3 polyunsaturated fatty acid biosynthesis in HepG2 cells and in human primary hepatocytes. <i>Prostaglandins Leukotrienes and Essential Fatty Acids</i> , <b>2014</b> , 90, 47-54	2.8	39
200	FADS2 function loss at the cancer hotspot 11q13 locus diverts lipid signaling precursor synthesis to unusual eicosanoid fatty acids. <i>PLoS ONE</i> , <b>2011</b> , 6, e28186	3.7	39
199	Detection of synthetic testosterone use by novel comprehensive two-dimensional gas chromatography combustion-isotope ratio mass spectrometry. <i>Analytical Chemistry</i> , <b>2011</b> , 83, 7158-65	7.8	38
198	Novel fatty acid desaturase 3 (FADS3) transcripts generated by alternative splicing. <i>Gene</i> , <b>2009</b> , 446, 28-34	3.8	38
197	On-line pyrolysis as a limitless reduction source for high-precision isotopic analysis of organic-derived hydrogen. <i>Analytical Chemistry</i> , <b>1997</b> , 69, 3148-52	7.8	38
196	Sourcing Organic Compounds Based on Natural Isotopic Variations Measured by High Precision Isotope Ratio Mass Spectrometry. <i>Current Organic Chemistry</i> , <b>2003</b> , 7, 1527-1543	1.7	38
195	Insertion-deletions in a FADS2 intron 1 conserved regulatory locus control expression of fatty acid desaturases 1 and 2 and modulate response to simvastatin. <i>Prostaglandins Leukotrienes and Essential Fatty Acids</i> , <b>2012</b> , 87, 25-33	2.8	37
194	Dietary 18:3n-3 and 22:6n-3 as sources of 22:6n-3 accretion in neonatal baboon brain and associated organs. <i>Lipids</i> , <b>1999</b> , 34 Suppl, S347-50	1.6	37
193	Kinetics of <sup>13</sup> C-DHA before and during fish-oil supplementation in healthy older individuals. <i>American Journal of Clinical Nutrition</i> , <b>2014</b> , 100, 105-12	7	36
192	Multiple micronutrient supplementation transiently ameliorates environmental enteropathy in Malawian children aged 12-35 months in a randomized controlled clinical trial. <i>Journal of Nutrition</i> , <b>2014</b> , 144, 2059-65	4.1	36

191	A novel FADS1 isoform potentiates FADS2-mediated production of eicosanoid precursor fatty acids. <i>Journal of Lipid Research</i> , <b>2012</b> , 53, 1502-12	6.3	36
190	BCFA suppresses LPS induced IL-8 mRNA expression in human intestinal epithelial cells. <i>Prostaglandins Leukotrienes and Essential Fatty Acids</i> , <b>2017</b> , 116, 27-31	2.8	35
189	Alternative transcripts of fatty acid desaturase (FADS) genes. <i>Prostaglandins Leukotrienes and Essential Fatty Acids</i> , <b>2010</b> , 82, 281-5	2.8	35
188	Docosahexaenoic and arachidonic acid influence on preterm baboon retinal composition and function. <i>Investigative Ophthalmology and Visual Science</i> , <b>2003</b> , 44, 4559-66		35
187	High-precision D/H measurement from hydrogen gas and water by continuous-flow isotope ratio mass spectrometry. <i>Analytical Chemistry</i> , <b>1995</b> , 67, 2486-92	7.8	35
186	An octaene fatty acid, 4,7,10,13,16,19,22,25-octacosaoctaenoic acid (28:8nB), found in marine oils. <i>Journal of Lipid Research</i> , <b>1999</b> , 40, 1501-1505	6.3	35
185	Pomegranate seed oil reduces intestinal damage in a rat model of necrotizing enterocolitis. <i>American Journal of Physiology - Renal Physiology</i> , <b>2012</b> , 303, G744-51	5.1	34
184	Identification and mapping of phosphocholine in animal tissue by static secondary ion mass spectrometry and tandem mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , <b>1996</b> , 10, 335-40	2.2	34
183	Saturated Branched Chain, Normal Odd-Carbon-Numbered, and n-3 (Omega-3) Polyunsaturated Fatty Acids in Freshwater Fish in the Northeastern United States. <i>Journal of Agricultural and Food Chemistry</i> , <b>2016</b> , 64, 7512-7519	5.7	34
182	FADS3 is a $\Delta$ 4Z sphingoid base desaturase that contributes to gender differences in the human plasma sphingolipidome. <i>Journal of Biological Chemistry</i> , <b>2020</b> , 295, 1889-1897	5.4	33
181	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. <i>Prostaglandins Leukotrienes and Essential Fatty Acids</i> , <b>2015</b> , 102-103, 1-3	2.8	32
180	Structural characterization of saturated branched chain fatty acid methyl esters by collisional dissociation of molecular ions generated by electron ionization. <i>Journal of Lipid Research</i> , <b>2012</b> , 53, 195-203	6.3	32
179	Differential tissue dose responses of (n-3) and (n-6) PUFA in neonatal piglets fed docosahexaenoate and arachidonoate. <i>Journal of Nutrition</i> , <b>2007</b> , 137, 2049-55	4.1	32
178	Electron transfer dissociation of doubly sodiated glycerophosphocholine lipids. <i>Journal of the American Society for Mass Spectrometry</i> , <b>2007</b> , 18, 1783-8	3.5	32
177	Linoleic acid kinetics and conversion to arachidonic acid in the pregnant and fetal baboon. <i>Journal of Lipid Research</i> , <b>1999</b> , 40, 1304-1311	6.3	32
176	Application of comprehensive two-dimensional gas chromatography to sterols analysis. <i>Journal of Chromatography A</i> , <b>2008</b> , 1214, 134-42	4.5	31
175	$^{15}\text{N}/^{14}\text{N}$ position-specific isotopic analyses of polynitrogenous amino acids. <i>Analytical Chemistry</i> , <b>2005</b> , 77, 1013-9	7.8	31
174	Simultaneous measurement of desaturase activities using stable isotope tracers or a nontracer method. <i>Analytical Biochemistry</i> , <b>1998</b> , 261, 43-50	3.1	30

173	Fast gas chromatography combustion isotope ratio mass spectrometry. <i>Analytical Chemistry</i> , <b>2007</b> , 79, 6348-58	7.8	30
172	The influence of maternal early to mid-gestation nutrient restriction on long chain polyunsaturated fatty acids in fetal sheep. <i>Lipids</i> , <b>2008</b> , 43, 525-31	1.6	30
171	Metabolic fate of docosahexaenoic acid (DHA; 22:6n-3) in human cells: direct retroconversion of DHA to eicosapentaenoic acid (20:5n-3) dominates over elongation to tetracosahexaenoic acid (24:6n-3). <i>FEBS Letters</i> , <b>2016</b> , 590, 3188-94	3.8	29
170	Increasing dietary linoleic acid in young rats increases and then decreases docosahexaenoic acid in retina but not in brain. <i>Lipids</i> , <b>1996</b> , 31, 1289-98	1.6	29
169	Mice lacking FABP9/PERF15 develop sperm head abnormalities but are fertile. <i>Developmental Biology</i> , <b>2010</b> , 348, 177-89	3.1	28
168	High-precision D/H measurement from organic mixtures by gas chromatography continuous-flow isotope ratio mass spectrometry using a palladium filter. <i>Analytical Chemistry</i> , <b>1996</b> , 68, 3002-7	7.8	28
167	Quantitative subfemtomole analysis of alpha-tocopherol and deuterated isotopomers in plasma using tabletop GC/MS/MS. <i>Analytical Chemistry</i> , <b>1998</b> , 70, 4369-75	7.8	28
166	High-precision gas chromatography-combustion isotope ratio mass spectrometry at low signal levels. <i>Journal of Chromatography A</i> , <b>1995</b> , 689, 63-8	4.5	28
165	Quantitative analysis of volatiles in edible oils following accelerated oxidation using broad spectrum isotope standards. <i>Food Chemistry</i> , <b>2015</b> , 174, 310-8	8.5	27
164	Imbalance of folic acid and vitamin B12 is associated with birth outcome: an Indian pregnant women study. <i>European Journal of Clinical Nutrition</i> , <b>2014</b> , 68, 726-9	5.2	27
163	Straight-chain acyl-CoA oxidase knockout mouse accumulates extremely long chain fatty acids from alpha-linolenic acid: evidence for runaway carousel-type enzyme kinetics in peroxisomal beta-oxidation diseases. <i>Molecular Genetics and Metabolism</i> , <b>2002</b> , 75, 108-19	3.7	27
162	Maternal Choline Supplementation Modulates Placental Nutrient Transport and Metabolism in Late Gestation of Mouse Pregnancy. <i>Journal of Nutrition</i> , <b>2017</b> , 147, 2083-2092	4.1	26
161	Branched-chain fatty acid composition of human milk and the impact of maternal diet: the Global Exploration of Human Milk (GEHM) Study. <i>American Journal of Clinical Nutrition</i> , <b>2017</b> , 105, 177-184	7	25
160	High-Oleic Ready-to-Use Therapeutic Food Maintains Docosahexaenoic Acid Status in Severe Malnutrition. <i>Journal of Pediatric Gastroenterology and Nutrition</i> , <b>2015</b> , 61, 138-43	2.8	25
159	Calibration and data processing in gas chromatography combustion isotope ratio mass spectrometry. <i>Drug Testing and Analysis</i> , <b>2012</b> , 4, 912-22	3.5	25
158	Assessing metabolism of beta-[13C]carotene using high-precision isotope ratio mass spectrometry. <i>Methods in Enzymology</i> , <b>1997</b> , 282, 130-40	1.7	25
157	Gas chromatography-chemical ionization-mass spectrometric fatty acid analysis of a commercial supercritical carbon dioxide lipid extract from New Zealand green-lipped mussel ( <i>Perna canaliculus</i> ). <i>Lipids</i> , <b>2005</b> , 40, 355-60	1.6	25
156	Aquatic and terrestrial resources are not nutritionally reciprocal for consumers. <i>Functional Ecology</i> , <b>2019</b> , 33, 2042-2052	5.6	24

155	Branched-chain fatty acids in the neonatal gut and estimated dietary intake in infancy and adulthood. <i>Nestle Nutrition Institute Workshop Series</i> , <b>2013</b> , 77, 133-43	1.9	24
154	Use of stable isotopes to study fatty acid and lipoprotein metabolism in man. <i>Prostaglandins Leukotrienes and Essential Fatty Acids</i> , <b>1997</b> , 57, 467-72	2.8	24
153	Condensed-phase carbon isotopic standards for compound-specific isotope analysis. <i>Analytical Chemistry</i> , <b>1994</b> , 66, 2989-91	7.8	24
152	Polyunsaturated fatty acid biosynthesis pathway and genetics. implications for interindividual variability in prothrombotic, inflammatory conditions such as COVID-19. <i>Prostaglandins Leukotrienes and Essential Fatty Acids</i> , <b>2020</b> , 162, 102183	2.8	24
151	On the formation of conjugated linoleic acid diagnostic ions with acetonitrile chemical ionization tandem mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , <b>2005</b> , 19, 363-8	2.2	22
150	Plasma oxylipin profiling identifies polyunsaturated vicinal diols as responsive to arachidonic acid and docosahexaenoic acid intake in growing piglets. <i>Journal of Lipid Research</i> , <b>2013</b> , 54, 1598-1607	6.3	21
149	On-line pyrolysis of hydrocarbons coupled to high-precision carbon isotope ratio analysis. <i>Analytica Chimica Acta</i> , <b>1999</b> , 397, 217-224	6.6	21
148	High-sensitivity liquid chromatography-combustion isotope ratio mass spectrometry of fat-soluble vitamins. <i>Journal of Mass Spectrometry</i> , <b>1995</b> , 30, 466-472	2.2	21
147	The role of fatty acid desaturase (FADS) genes in oleic acid metabolism: FADS1 $\rightarrow$ desaturates 11-20:1 to 7,11-20:2. <i>Prostaglandins Leukotrienes and Essential Fatty Acids</i> , <b>2018</b> , 128, 21-25	2.8	21
146	Dose-response effects of betamethasone on maturation of the fetal sheep lung. <i>American Journal of Obstetrics and Gynecology</i> , <b>2010</b> , 202, 186.e1-7	6.4	20
145	Fatty acid carbon isotope ratios in humans on controlled diets. <i>Lipids</i> , <b>1997</b> , 32, 1257-63	1.6	20
144	Long-chain polyunsaturated fatty acids attenuate the IL-1 $\beta$ -induced proinflammatory response in human fetal intestinal epithelial cells. <i>Pediatric Research</i> , <b>2015</b> , 78, 626-33	3.2	19
143	Maintenance of arachidonic acid and evidence of $\Delta$ desaturation in cats fed $\alpha$ -linolenic and linoleic acid enriched diets. <i>Lipids</i> , <b>2012</b> , 47, 413-23	1.6	19
142	Fatty acid analysis by high resolution gas chromatography and mass spectrometry for clinical and experimental applications. <i>Current Opinion in Clinical Nutrition and Metabolic Care</i> , <b>2013</b> , 16, 548-54	3.8	19
141	Comprehensive 2-dimensional gas chromatography fast quadrupole mass spectrometry (GC $\times$ GC-qMS) for urinary steroid profiling: mass spectral characteristics with chemical ionization. <i>Drug Testing and Analysis</i> , <b>2011</b> , 3, 857-67	3.5	19
140	Influence of dietary long-chain PUFA on premature baboon lung FA and dipalmitoyl PC composition. <i>Lipids</i> , <b>2003</b> , 38, 425-9	1.6	19
139	High-Molecular-Weight Polymer Analysis by Laser Microprobe Fourier Transform Ion Cyclotron Resonance Mass Spectrometry. <i>Applied Spectroscopy</i> , <b>1991</b> , 45, 80-91	3.1	19
138	Ionization probability variations due to matrix in ion microscopic analysis of plastic-embedded and ashed biological specimens. <i>Analytical Chemistry</i> , <b>1986</b> , 58, 1675-80	7.8	19

137	High levels of branched chain fatty acids in natto and other Asian fermented foods. <i>Food Chemistry</i> , <b>2019</b> , 286, 428-433	8.5	18
136	Fads3 modulates docosahexaenoic acid in liver and brain. <i>Prostaglandins Leukotrienes and Essential Fatty Acids</i> , <b>2017</b> , 123, 25-32	2.8	18
135	The polypyrimidine tract binding protein regulates desaturase alternative splicing and PUFA composition. <i>Journal of Lipid Research</i> , <b>2011</b> , 52, 2279-2286	6.3	18
134	Long chain polyunsaturate supplementation does not induce excess lipid peroxidation of piglet tissues. <i>European Journal of Nutrition</i> , <b>2003</b> , 42, 293-6	5.2	18
133	A regulatory insertion-deletion polymorphism in the FADS gene cluster influences PUFA and lipid profiles among Chinese adults: a population-based study. <i>American Journal of Clinical Nutrition</i> , <b>2018</b> , 107, 867-875	7	17
132	Dietary arachidonic acid and docosahexaenoic acid regulate liver fatty acid desaturase (FADS) alternative transcript expression in suckling piglets. <i>Prostaglandins Leukotrienes and Essential Fatty Acids</i> , <b>2013</b> , 89, 345-50	2.8	17
131	Conversion efficiency of linolenic acid to omega-3 highly unsaturated fatty acids in aerial insectivore chicks. <i>Journal of Experimental Biology</i> , <b>2018</b> , 221,	3	17
130	Balancing omega-6 and omega-3 fatty acids in ready-to-use therapeutic foods (RUTF). <i>BMC Medicine</i> , <b>2015</b> , 13, 117	11.4	17
129	Alternative splicing generates a novel FADS2 alternative transcript in baboons. <i>Molecular Biology Reports</i> , <b>2010</b> , 37, 2403-6	2.8	17
128	Carbon position-specific isotope analysis of alanine and phenylalanine analogues exhibiting nonideal pyrolytic fragmentation. <i>Analytical Chemistry</i> , <b>2005</b> , 77, 1746-52	7.8	16
127	Acetyl CoA carboxylase shares control of fatty acid synthesis with fatty acid synthase in bovine mammary homogenate. <i>Journal of Dairy Science</i> , <b>2006</b> , 89, 2552-8	4	16
126	Negligible changes in piglet serum clinical indicators or organ weights due to dietary single-cell long-chain polyunsaturated oils. <i>Food and Chemical Toxicology</i> , <b>2002</b> , 40, 453-60	4.7	16
125	Reduction of fatty acid methyl esters to fatty alcohols to improve volatility for isotopic analysis without extraneous carbon. <i>Analytical Chemistry</i> , <b>1998</b> , 70, 3752-6	7.8	16
124	Experimental evaluation of apodization functions for quantitative fourier transform mass spectrometry. <i>International Journal of Mass Spectrometry and Ion Processes</i> , <b>1989</b> , 90, 151-166		16
123	Structural Analysis of Unsaturated Fatty Acid Methyl Ester Isomers with Acetonitrile Covalent-Adduct Chemical Ionization (CACI) Tandem Mass Spectrometry <b>2006</b> , 157-172		16
122	Acyl-CoA synthetase 6 enriches seminiferous tubules with the $\Omega$ fatty acid docosahexaenoic acid and is required for male fertility in the mouse. <i>Journal of Biological Chemistry</i> , <b>2019</b> , 294, 14394-14405	5.4	15
121	Runx1 Role in Epithelial and Cancer Cell Proliferation Implicates Lipid Metabolism and Scd1 and Soat1 Activity. <i>Stem Cells</i> , <b>2018</b> , 36, 1603-1616	5.8	14
120	Highly sensitive and selective analysis of urinary steroids by comprehensive two-dimensional gas chromatography combined with positive chemical ionization quadrupole mass spectrometry. <i>Analyst, The</i> , <b>2012</b> , 137, 3102-10	5	14

119	Acetonitrile covalent adduct chemical ionization tandem mass spectrometry of non-methylene-interrupted pentaene fatty acid methyl esters. <i>Rapid Communications in Mass Spectrometry</i> , <b>2011</b> , 25, 1933-41	2.2	14
118	High-precision position-specific isotope analysis of <sup>13</sup> C/ <sup>12</sup> C in leucine and methionine analogues. <i>Analytical Chemistry</i> , <b>2003</b> , 75, 5495-503	7.8	14
117	Direct analysis of carbon isotope variability in albumins by liquid flow-injection isotope ratio mass spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , <b>1996</b> , 7, 605-10	3.5	14
116	BCFA-enriched vernix-monoacylglycerol reduces LPS-induced inflammatory markers in human enterocytes in vitro. <i>Pediatric Research</i> , <b>2018</b> , 83, 874-879	3.2	14
115	Oleogel-structured composite for the stabilization of $\omega$ fatty acids in fish oil. <i>Food and Function</i> , <b>2018</b> , 9, 5598-5606	6.1	14
114	Micronutrient Gaps in Three Commercial Weight-Loss Diet Plans. <i>Nutrients</i> , <b>2018</b> , 10,	6.7	13
113	The combination of EPA+DHA and low-dose aspirin ingestion reduces platelet function acutely whereas each alone may not in healthy humans. <i>Prostaglandins Leukotrienes and Essential Fatty Acids</i> , <b>2012</b> , 87, 143-51	2.8	13
112	Heart arachidonic acid is uniquely sensitive to dietary arachidonic acid and docosahexaenoic acid content in domestic piglets. <i>Prostaglandins Leukotrienes and Essential Fatty Acids</i> , <b>2011</b> , 85, 335-43	2.8	13
111	External calibration in gas chromatography-combustion-isotope ratio mass spectrometry measurements of endogenous androgenic anabolic steroids in sports doping control. <i>Journal of Chromatography A</i> , <b>2011</b> , 1218, 5675-82	4.5	13
110	Effects of conjugated linoleic acid on linoleic and linolenic acid metabolism in man. <i>British Journal of Nutrition</i> , <b>2006</b> , 95, 727-33	3.6	13
109	Milk fat synthesis is unaffected by abomasal infusion of the conjugated diene 18:3 isomers cis-6,trans-10, cis-12 and cis-6,trans-8,cis-12. <i>Lipids</i> , <b>2005</b> , 40, 89-95	1.6	13
108	Growth, neurobehavioral and circadian rhythm development in newborn baboons. <i>Pediatric Research</i> , <b>2001</b> , 49, 673-7	3.2	13
107	High-precision isotope ratio mass spectrometry and stable isotope precursors for tracer studies in cell culture. <i>Analytical Biochemistry</i> , <b>2000</b> , 287, 80-6	3.1	13
106	Reduction of nonpolar amino acids to amino alcohols to enhance volatility for high-precision isotopic analysis. <i>Analytical Chemistry</i> , <b>2001</b> , 73, 799-802	7.8	13
105	Short branched-chain C6 carboxylic acids result in increased growth, novel $\omega$ -natural fatty acids and increased membrane fluidity in a <i>Listeria monocytogenes</i> branched-chain fatty acid-deficient mutant. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , <b>2015</b> , 1851, 1406-15	5	12
104	The effects of aspirin and fish oil consumption on lysophosphatidylcholines and lysophosphatidic acids and their correlates with platelet aggregation in adults with diabetes mellitus. <i>Prostaglandins Leukotrienes and Essential Fatty Acids</i> , <b>2014</b> , 90, 61-8	2.8	12
103	Effects of low-dose aspirin and fish oil on platelet function and NF-kappaB in adults with diabetes mellitus. <i>Prostaglandins Leukotrienes and Essential Fatty Acids</i> , <b>2013</b> , 89, 9-18	2.8	12
102	Metabolism of uniformly labeled C-eicosapentaenoic acid and C-arachidonic acid in young and old men. <i>American Journal of Clinical Nutrition</i> , <b>2017</b> , 106, 467-474	7	12

101	Determination of Intramolecular delta13C from incomplete pyrolysis fragments. Evaluation of pyrolysis-induced isotopic fractionation in fragments from the lactic acid analogue propylene glycol. <i>Analytical Chemistry</i> , <b>2006</b> , 78, 2752-7	7.8	12
100	Fatty acid desaturase 2 (FADS2) but not FADS1 desaturates branched chain and odd chain saturated fatty acids. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , <b>2020</b> , 1865, 1585-1592	5.7	12
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98	Quantifying the contribution of grape hexoses to wine volatiles by high-precision [U-13C]-glucose tracer studies. <i>Journal of Agricultural and Food Chemistry</i> , <b>2014</b> , 62, 6820-7	5.7	11
97	Evaluation of bioequivalency and toxicological effects of three sources of arachidonic acid (ARA) in domestic piglets. <i>Food and Chemical Toxicology</i> , <b>2011</b> , 49, 2320-7	4.7	11
96	Workshop on DHA as a required nutrient: overview. <i>Prostaglandins Leukotrienes and Essential Fatty Acids</i> , <b>2009</b> , 81, 233-6	2.8	11
95	Structural Identification of Monounsaturated Branched Chain Fatty Acid Methyl Esters by Combination of Electron Ionization and Covalent Adduct Chemical Ionization Tandem Mass Spectrometry. <i>Analytical Chemistry</i> , <b>2019</b> , 91, 15147-15154	7.8	11
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91	Correction of ion source nonlinearities over a wide signal range in continuous-flow isotope ratio mass spectrometry of water-derived hydrogen. <i>Analytical Chemistry</i> , <b>1996</b> , 68, 2281-6	7.8	10
90	Elemental isotopic abundance determinations of magnesium in biological materials by secondary ion mass spectrometry. <i>Analytical Chemistry</i> , <b>1984</b> , 56, 402-7	7.8	10
89	Polyunsaturated fatty acids and fatty acid-derived lipid mediators: Recent advances in the understanding of their biosynthesis, structures, and functions.. <i>Progress in Lipid Research</i> , <b>2022</b> , 86, 101165	14.3	10
88	Identification of Polymethylene-Interrupted Polyunsaturated Fatty Acids (PMI-PUFA) by Solvent-Mediated Covalent Adduct Chemical Ionization Triple Quadrupole Tandem Mass Spectrometry. <i>Analytical Chemistry</i> , <b>2020</b> , 92, 8209-8217	7.8	9
87	Cryofocus fast gas chromatography combustion isotope ratio mass spectrometry for rapid detection of synthetic steroid use in sport doping. <i>Analyst, The</i> , <b>2018</b> , 143, 1124-1132	5	9
86	Branched chain fatty acid composition of yak milk and manure during full-lactation and half-lactation. <i>Prostaglandins Leukotrienes and Essential Fatty Acids</i> , <b>2019</b> , 150, 16-20	2.8	9
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84	Omega-3 fatty acid supplementation and cardiovascular disease events. <i>JAMA - Journal of the American Medical Association</i> , <b>2013</b> , 309, 28-9	27.4	9

83	Microfabrication of high temperature micro-reactors for continuous flow isotope ratio mass spectrometry. <i>Microfluidics and Nanofluidics</i> , <b>2010</b> , 9, 461-470	2.8	9
82	Analysis of quantization error in high-precision continuous-flow isotope ratio mass spectrometry. <i>Journal of Chromatography A</i> , <b>2003</b> , 1020, 273-82	4.5	9
81	Enzymatic decarboxylation of tyrosine and phenylalanine to enhance volatility for high-precision isotopic analysis. <i>Analytical Chemistry</i> , <b>2002</b> , 74, 479-83	7.8	9
80	Elemental composition of ions associated with low mass carbon clusters generated by UV laser ablation of polyimide. <i>Chemical Physics Letters</i> , <b>1989</b> , 163, 499-502	2.5	9
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45	Perspective: Moving Toward Desirable Linoleic Acid Content in Infant Formula. <i>Advances in Nutrition</i> , <b>2021</b> , 12, 2085-2098	10	5
44	High-precision continuous-flow isotope ratio mass spectrometry <b>1997</b> , 16, 227		5
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42	Interface between a Nicolet FTMS/2000 and a quantel Nd:YAG laser using an IBM PC-AT. <i>Computers &amp; Chemistry</i> , <b>1989</b> , 13, 319-324		4
41	A strong developmental isotope effect in <i>Caenorhabditis elegans</i> induced by 5,5-deuterated lysine. <i>Amino Acids</i> , <b>2017</b> , 49, 887-894	3.5	3
40	Glycerol derived process contaminants in refined coconut oil induce cholesterol synthesis in HepG2 cells. <i>Food and Chemical Toxicology</i> , <b>2019</b> , 127, 135-142	4.7	3
39	The effects of aspirin and N-3 fatty acids on telomerase activity in adults with diabetes mellitus. <i>Nutrition, Metabolism and Cardiovascular Diseases</i> , <b>2020</b> , 30, 1795-1799	4.5	3
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32	Low Temperature Catalytic Combustion Reactors for High Precision Carbon Isotope Measurements in Gas Chromatography Combustion Isotope Ratio Mass Spectrometry. <i>Analytical Chemistry</i> , <b>2019</b> , 91, 2901-2907	7.8	2
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29	Science dialogue mapping of knowledge and knowledge gaps related to the effects of dairy intake on human cardiovascular health and disease. <i>Critical Reviews in Food Science and Nutrition</i> , <b>2021</b> , 61, 179-195	11.5	2
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21	Placental docosahexaenoic and arachidonic acids correlate weakly with placental polychlorinated dibenzofurans (PCDF) and are uncorrelated with polychlorinated dibenzo-p-dioxins (PCDD) or polychlorinated biphenyls (PCB) at delivery: a pilot study. <i>Food and Chemical Toxicology</i> , <b>2011</b> , 49, 1711-7	4.7	1
20	Reply to FAJ Muskiet et al. <i>American Journal of Clinical Nutrition</i> , <b>2007</b> , 86, 1803-1804	7	1
19	Biochemical and white blood cell profiles of baboon neonates consuming formulas with moderate and high dietary long-chain polyunsaturated fatty acids. <i>Journal of Medical Primatology</i> , <b>2008</b> , 37, 81-7	0.7	1
18	Raman studies of laser-ablated ETFE (tefzel) films. <i>Surface and Interface Analysis</i> , <b>1990</b> , 15, 95-99	1.5	1
17	Temperature stage for ultralow-temperature oxygen plasma ashing (L2TA). <i>Review of Scientific Instruments</i> , <b>1985</b> , 56, 2084-2087	1.7	1
16	Reply to FAJ Muskiet et al. <i>American Journal of Clinical Nutrition</i> , <b>2007</b> , 86, 1803-1804	7	1
15	Structural Characterization of Conjugated Linoleic Acid Methyl Esters with Acetonitrile Chemical Ionization Tandem Mass Spectrometry <b>2006</b> , 119-128		1
14	Fatty acid sentinels as covalently bound randomization standards for triacylglycerol (TAG) quantitative analysis. <i>Rapid Communications in Mass Spectrometry</i> , <b>2020</b> , 34, e8891	2.2	1
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11	Associations of plasma very-long-chain SFA and the metabolic syndrome in adults. <i>British Journal of Nutrition</i> , <b>2018</b> , 120, 855-862	3.6	1
10	Low linoleic acid foods with added DHA given to Malawian children with severe acute malnutrition improves cognition: a randomized, triple blinded, controlled clinical trial		1
9	Unusual polymethylene-interrupted, $\beta$ monounsaturated and omega-3 fatty acids in sea urchin ( <i>Arbacia punctulata</i> ) from the Gulf of Mexico identified by solvent mediated covalent adduct chemical ionization mass spectrometry. <i>Food Chemistry</i> , <b>2022</b> , 371, 131131	8.5	1
8	Neurodevelopment, nutrition and genetics. A contemporary retrospective on neurocognitive health on the occasion of the 100th anniversary of the National Institute of Nutrition, Hyderabad, India.. <i>Prostaglandins Leukotrienes and Essential Fatty Acids</i> , <b>2022</b> , 180, 102427	2.8	1
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3	Peter J. Todd (1949-2015). <i>Journal of the American Society for Mass Spectrometry</i> , <b>2016</b> , 27, 563-4	3.5	
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