

Matthew J Picklo

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.

94
papers

2,738
citations

28
h-index

49
g-index

96
ext. papers

3,015
ext. citations

4.4
avg, IF

5.27
L-index

#	Paper	IF	Citations
94	Carbonylation of adipose proteins in obesity and insulin resistance: identification of adipocyte fatty acid-binding protein as a cellular target of 4-hydroxynonenal. <i>Molecular and Cellular Proteomics</i> , 2007 , 6, 624-37	7.6	187
93	Carbonyl toxicology and Alzheimer's disease. <i>Toxicology and Applied Pharmacology</i> , 2002 , 184, 187-97	4.6	173
92	The Nrf2-antioxidant response element pathway: a target for regulating energy metabolism. <i>Journal of Nutritional Biochemistry</i> , 2012 , 23, 1201-6	6.3	155
91	Trans-4-hydroxy-2-hexenal, a product of n-3 fatty acid peroxidation: make some room HNE. <i>Free Radical Biology and Medicine</i> , 2010 , 49, 1-8	7.8	145
90	4-Hydroxy-2(E)-nonenal inhibits CNS mitochondrial respiration at multiple sites. <i>Journal of Neurochemistry</i> , 1999 , 72, 1617-24	6	120
89	Central noradrenergic lesioning using anti-DBH-saporin: anatomical findings. <i>Brain Research</i> , 1996 , 740, 175-84	3.7	116
88	Issues of fish consumption for cardiovascular disease risk reduction. <i>Nutrients</i> , 2013 , 5, 1081-97	6.7	99
87	Trans-4-hydroxy-2-hexenal is a neurotoxic product of docosahexaenoic (22:6; n-3) acid oxidation. <i>Journal of Neurochemistry</i> , 2008 , 105, 714-24	6	82
86	4-Hydroxy-2-nonenal increases superoxide anion radical in endothelial cells via stimulated GTP cyclohydrolase proteasomal degradation. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2007 , 27, 2340-7	9.4	82
85	Expression and activities of aldo-keto oxidoreductases in Alzheimer disease. <i>Journal of Neuropathology and Experimental Neurology</i> , 2001 , 60, 686-95	3.1	66
84	Skin and plasma carotenoid response to a provided intervention diet high in vegetables and fruit: uptake and depletion kinetics. <i>American Journal of Clinical Nutrition</i> , 2014 , 100, 930-7	7	61
83	Oxidation of 4-hydroxy-2-nonenal by succinic semialdehyde dehydrogenase (ALDH5A). <i>Journal of Neurochemistry</i> , 2003 , 86, 298-305	6	60
82	Noradrenergic lesioning with an anti-dopamine beta-hydroxylase immunotoxin. <i>Brain Research</i> , 1994 , 666, 195-200	3.7	51
81	Intake of seafood in the US varies by age, income, and education level but not by race-ethnicity. <i>Nutrients</i> , 2014 , 6, 6060-75	6.7	50
80	Elevation of AKR7A2 (succinic semialdehyde reductase) in neurodegenerative disease. <i>Brain Research</i> , 2001 , 916, 229-38	3.7	50
79	Relationship of the Reported Intakes of Fat and Fatty Acids to Body Weight in US Adults. <i>Nutrients</i> , 2017 , 9,	6.7	48
78	Ethanol intoxication increases hepatic N-lysyl protein acetylation. <i>Biochemical and Biophysical Research Communications</i> , 2008 , 376, 615-9	3.4	47

77	Methods of sympathetic degeneration and alteration. <i>Journal of the Autonomic Nervous System</i> , 1997 , 62, 111-25		43
76	Midpolarity and nonpolar wood smoke particulate matter fractions deplete glutathione in RAW 264.7 macrophages. <i>Chemical Research in Toxicology</i> , 2006 , 19, 255-61	4	41
75	Metabolism of 4-hydroxy-trans-2-nonenal by central nervous system mitochondria is dependent on age and NAD ⁺ availability. <i>Chemical Research in Toxicology</i> , 2004 , 17, 1272-9	4	39
74	Consumption of Honey, Sucrose, and High-Fructose Corn Syrup Produces Similar Metabolic Effects in Glucose-Tolerant and -Intolerant Individuals. <i>Journal of Nutrition</i> , 2015 , 145, 2265-72	4.1	38
73	Mitochondrial oxidation of 4-hydroxy-2-nonenal in rat cerebral cortex. <i>Journal of Neurochemistry</i> , 2003 , 84, 1313-21	6	34
72	Baking reduces prostaglandin, resolvin, and hydroxy-fatty acid content of farm-raised Atlantic salmon (<i>Salmo salar</i>). <i>Journal of Agricultural and Food Chemistry</i> , 2011 , 59, 11278-86	5.7	33
71	Dose-dependent consumption of farmed Atlantic salmon (<i>Salmo salar</i>) increases plasma phospholipid n-3 fatty acids differentially. <i>Journal of the Academy of Nutrition and Dietetics</i> , 2013 , 113, 282-7	3.9	32
70	Inhibition of aldehyde detoxification in CNS mitochondria by fungicides. <i>NeuroToxicology</i> , 2007 , 28, 143-4	4.4	32
69	Total dietary fat and fatty acid content modifies plasma phospholipid fatty acids, desaturase activity indices, and urinary prostaglandin E in women. <i>Nutrition Research</i> , 2012 , 32, 1-7	4	29
68	A High-Fat, High-Oleic Diet, But Not a High-Fat, Saturated Diet, Reduces Hepatic Linolenic Acid and Eicosapentaenoic Acid Content in Mice. <i>Lipids</i> , 2016 , 51, 537-47	1.6	28
67	Enantioselective oxidation of trans-4-hydroxy-2-nonenal is aldehyde dehydrogenase isozyme and Mg ²⁺ dependent. <i>Chemical Research in Toxicology</i> , 2007 , 20, 887-95	4	28
66	Mitochondrial effects of lipid-derived neurotoxins. <i>Journal of Alzheimer's Disease</i> , 2007 , 12, 185-93	4.3	28
65	Glutathionyl systems and metabolic dysfunction in obesity. <i>Nutrition Reviews</i> , 2015 , 73, 858-68	6.4	26
64	Enhancement of dopaminergic neurotoxicity by the mercapturate of dopamine: relevance to Parkinson's disease. <i>Journal of Neurochemistry</i> , 2000 , 74, 970-8	6	26
63	Dietary saturated fatty acid type impacts obesity-induced metabolic dysfunction and plasma lipidomic signatures in mice. <i>Journal of Nutritional Biochemistry</i> , 2019 , 64, 32-44	6.3	26
62	Toxicity of wide-range polarity fractions from wood smoke and diesel exhaust particulate obtained using hot pressurized water. <i>Environmental Toxicology and Chemistry</i> , 2004 , 23, 2243-50	3.8	25
61	Enantioselective metabolism of trans-4-hydroxy-2-nonenal by brain mitochondria. <i>Free Radical Biology and Medicine</i> , 2005 , 39, 913-24	7.8	25
60	Congeners of N(alpha)-acetyl-L-cysteine but not aminoguanidine act as neuroprotectants from the lipid peroxidation product 4-hydroxy-2-nonenal. <i>Free Radical Biology and Medicine</i> , 2000 , 29, 1028-36	7.8	25

59	High-pressure liquid chromatography quantitation of cytochrome c using 393 nm detection. <i>Analytical Biochemistry</i> , 1999 , 276, 166-70	3.1	25
58	Mercapturate metabolism of 4-hydroxy-2-nonenal in rat and human cerebrum. <i>Journal of Neuropathology and Experimental Neurology</i> , 2003 , 62, 146-53	3.1	24
57	Endogenous catechol thioethers may be pro-oxidant or antioxidant. <i>Free Radical Biology and Medicine</i> , 1999 , 27, 271-7	7.8	24
56	Comparative effects of high oleic acid vs high mixed saturated fatty acid obesogenic diets upon PUFA metabolism in mice. <i>Prostaglandins Leukotrienes and Essential Fatty Acids</i> , 2017 , 119, 25-37	2.8	22
55	N-acetylcysteine supplementation decreases osteoclast differentiation and increases bone mass in mice fed a high-fat diet. <i>Journal of Nutrition</i> , 2014 , 144, 289-96	4.1	22
54	Modeled replacement of traditional soybean and canola oil with high-oleic varieties increases monounsaturated fatty acid and reduces both saturated fatty acid and polyunsaturated fatty acid intake in the US adult population. <i>American Journal of Clinical Nutrition</i> , 2018 , 108, 594-602	7	21
53	Astrocytic biotransformation of trans-4-hydroxy-2-nonenal is dose-dependent. <i>Chemical Research in Toxicology</i> , 2006 , 19, 844-51	4	21
52	High-Fat Diets Containing Different Amounts of n3 and n6 Polyunsaturated Fatty Acids Modulate Inflammatory Cytokine Production in Mice. <i>Lipids</i> , 2016 , 51, 571-82	1.6	20
51	Quantitation of isobaric phosphatidylcholine species in human plasma using a hybrid quadrupole linear ion-trap mass spectrometer. <i>Journal of Lipid Research</i> , 2016 , 57, 2225-2234	6.3	20
50	NAD(P)H:quinone oxidoreductase 1 activity reduces hypertrophy in 3T3-L1 adipocytes. <i>Free Radical Biology and Medicine</i> , 2012 , 53, 690-700	7.8	19
49	Trans-4-oxo-2-nonenal potently alters mitochondrial function. <i>Free Radical Biology and Medicine</i> , 2011 , 50, 400-7	7.8	19
48	Involuntary wheel running improves but does not fully reverse the deterioration of bone structure of obese rats despite decreasing adiposity. <i>Calcified Tissue International</i> , 2015 , 97, 145-55	3.9	17
47	Obesity reduces methionine sulphoxide reductase activity in visceral adipose tissue. <i>Free Radical Research</i> , 2011 , 45, 1052-60	4	17
46	Inhibition of cardiac myocyte contraction by 4-hydroxy-trans-2-nonenal. <i>Cardiovascular Toxicology</i> , 2004 , 4, 21-8	3.4	17
45	Selective enrichment of n-3 fatty acids in human plasma lipid motifs following intake of marine fish. <i>Journal of Nutritional Biochemistry</i> , 2018 , 54, 57-65	6.3	17
44	Antioxidant supplementation and obesity have independent effects on hepatic oxylipin profiles in insulin-resistant, obesity-prone rats. <i>Free Radical Biology and Medicine</i> , 2015 , 89, 182-91	7.8	16
43	4-Hydroxy-trans-2-nonenic acid is a gamma-hydroxybutyrate receptor ligand in the cerebral cortex and hippocampus. <i>Journal of Neurochemistry</i> , 2004 , 89, 1462-70	6	16
42	Ethanol withdrawal increases glutathione adducts of 4-hydroxy-2-hexenal but not 4-hydroxyl-2-nonenal in the rat cerebral cortex. <i>Free Radical Biology and Medicine</i> , 2010 , 48, 384-90	7.8	15

41	Elevated oxidation of docosahexaenoic acid, 22:6 (n-3), in brain regions of rats undergoing ethanol withdrawal. <i>Neuroscience Letters</i> , 2006 , 405, 172-4	3.3	14
40	Nitrate-based vasodilators inhibit multiple vascular aldehyde dehydrogenases. <i>Cardiovascular Toxicology</i> , 2005 , 5, 321-32	3.4	14
39	Correlations of SELENOF and SELENOP genotypes with serum selenium levels and prostate cancer. <i>Prostate</i> , 2018 , 78, 279-288	4.2	13
38	Selenium levels in human breast carcinoma tissue are associated with a common polymorphism in the gene for SELENOP (Selenoprotein P). <i>Journal of Trace Elements in Medicine and Biology</i> , 2017 , 39, 227-233	4.1	13
37	Structural characterization of alpha,beta-unsaturated aldehydes by GC/MS is dependent upon ionization method. <i>Lipids</i> , 2008 , 43, 765-74	1.6	13
36	Time-restricted Feeding Attenuates High-fat Diet-enhanced Spontaneous Metastasis of Lewis Lung Carcinoma in Mice. <i>Anticancer Research</i> , 2019 , 39, 1739-1748	2.3	12
35	Lipidomic Impacts of an Obesogenic Diet Upon Lewis Lung Carcinoma in Mice. <i>Frontiers in Oncology</i> , 2018 , 8, 134	5.3	12
34	Quantification of trans-4-hydroxy-2-nonenal enantiomers and metabolites by LC-ESI-MS/MS. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2007 , 857, 115-22 ²	3.2	12
33	Twice weekly intake of farmed Atlantic salmon (<i>Salmo salar</i>) positively influences lipoprotein concentration and particle size in overweight men and women. <i>Nutrition Research</i> , 2016 , 36, 899-906	4	11
32	Dopamine mercapturate can augment dopaminergic neurodegeneration. <i>Drug Metabolism Reviews</i> , 2000 , 32, 363-76	7	10
31	Fluorescence lifetime analysis and effect of magnesium ions on binding of NADH to human aldehyde dehydrogenase 1. <i>Chemico-Biological Interactions</i> , 2013 , 202, 85-90	5	9
30	Effects of cooking techniques on fatty acid and oxylipin content of farmed rainbow trout (<i>O. mykiss</i>). <i>Food Science and Nutrition</i> , 2017 , 5, 1195-1204	3.2	9
29	Increasing Dietary Fish Oil Reduces Adiposity and Mitigates Bone Deterioration in Growing C57BL/6 Mice Fed a High-Fat Diet. <i>Journal of Nutrition</i> , 2020 , 150, 99-107	4.1	9
28	PPAR mRNA Levels Are Modified by Dietary n-3 Fatty Acid Restriction and Energy Restriction in the Brain and Liver of Growing Rats. <i>Journal of Nutrition</i> , 2017 , 147, 161-169	4.1	8
27	Adipose dysfunction, interaction of reactive oxygen species, and inflammation. <i>Advances in Nutrition</i> , 2012 , 3, 734-5	10	8
26	Quantitation of protein S-glutathionylation by liquid chromatography-tandem mass spectrometry: correction for contaminating glutathione and glutathione disulfide. <i>Analytical Biochemistry</i> , 2015 , 469, 54-64	3.1	7
25	Impact of beef consumption on saturated fat intake in the United States adult population: Insights from modeling the influences of bovine genetics and nutrition. <i>Meat Science</i> , 2020 , 169, 108225	6.4	7
24	Direct and indirect high-performance liquid chromatography enantioseparation of trans-4-hydroxy-2-nonenic acid. <i>Journal of Chromatography A</i> , 2007 , 1149, 305-11	4.5	7

23	Fatty acid partitioning varies across fillet regions during sexual maturation in female rainbow trout (<i>Oncorhynchus mykiss</i>). <i>Aquaculture</i> , 2017 , 475, 52-60	4.4	6
22	Deposition and mobilization of lipids varies across the rainbow trout fillet during feed deprivation and transition from plant to fish oil-based diets. <i>Aquaculture</i> , 2018 , 491, 39-49	4.4	5
21	NADH fluorescence lifetime analysis of the effect of magnesium ions on ALDH2. <i>Chemico-Biological Interactions</i> , 2011 , 191, 147-52	5	5
20	Analysis of HNE metabolism in CNS models. <i>Redox Report</i> , 2007 , 12, 16-9	5.9	4
19	Simplified Mass Spectrometric Analysis of Ceramides using a Common Collision Energy. <i>Lipids</i> , 2019 , 54, 471-477	1.6	3
18	Simple, Rapid Lipidomic Analysis of Triacylglycerols in Bovine Milk by Infusion-Electrospray Mass Spectrometry. <i>Lipids</i> , 2021 , 56, 243-255	1.6	3
17	Time-restricted feeding mice a high-fat diet induces a unique lipidomic profile. <i>Journal of Nutritional Biochemistry</i> , 2021 , 88, 108531	6.3	3
16	Quantitation of Glutathione, Glutathione Disulphide, and Protein-Glutathione Mixed Disulphides by High-Performance Liquid Chromatography-Tandem Mass Spectrometry. <i>Methods in Molecular Biology</i> , 2019 , 1967, 197-210	1.4	2
15	Decreasing the Ratio of Dietary Linoleic to Linolenic Acid from 10 to 4 by Changing Only the Former Does Not Prevent Adiposity or Bone Deterioration in Obese Mice. <i>Journal of Nutrition</i> , 2020 , 150, 1370-1378	4.1	2
14	Metabolome of Mammary Tumors Differs from Normal Mammary Glands But Is Not Altered by Time-restricted Feeding Under Obesogenic Conditions. <i>Anticancer Research</i> , 2020 , 40, 3697-3705	2.3	2
13	<i>Pulicaria jaubertii</i> E. Gamal-Eldin reduces triacylglyceride content and modifies cellular antioxidant pathways in 3T3-L1 adipocytes. <i>Chemico-Biological Interactions</i> , 2016 , 253, 48-59	5	2
12	Plasma Metabolomic Changes in Mice With Time-restricted Feeding-attenuated Spontaneous Metastasis of Lewis Lung Carcinoma. <i>Anticancer Research</i> , 2020 , 40, 1833-1841	2.3	2
11	Identification of Phenotypic Lipidomic Signatures in Response to Long Chain n-3 Polyunsaturated Fatty Acid Supplementation in Humans. <i>Journal of the American Heart Association</i> , 2021 , 10, e018126	6	2
10	Mammary Tumorigenesis and Metabolome in Male Adipose Specific Monocyte Chemotactic Protein-1 Deficient MMTV-PyMT Mice Fed a High-Fat Diet. <i>Frontiers in Oncology</i> , 2021 , 11, 667843	5.3	2
9	The conserved R166 residue of ALDH5A (succinic semialdehyde dehydrogenase) has multiple functional roles. <i>Chemico-Biological Interactions</i> , 2009 , 178, 70-4	5	1
8	Identification of High and Low Branched-Chain Fatty Acid-Producing Phenotypes in Holstein Cows following High-Forage and Low-Forage Diets in a Crossover Designed Trial.. <i>Current Developments in Nutrition</i> , 2022 , 6, nzab154	0.4	1
7	23 Current progress in the Agricultural Research Service Beef Grand Challenge: A large-scale genetics by environment by management evaluation project. <i>Journal of Animal Science</i> , 2020 , 98, 13-14	0.7	1
6	Supplementing rainbow trout (<i>Oncorhynchus mykiss</i>) broodstock diets with choline and methionine improves growth in offspring. <i>Journal of the World Aquaculture Society</i> , 2020 , 51, 266-281	2.5	1

5	Hepatic Fatty Acid and Transcriptome Profiles during the Transition from Vegetable- to Fish Oil-Based Diets in Rainbow Trout (<i>Oncorhynchus mykiss</i>). <i>Lipids</i> , 2021 , 56, 189-200	1.6	1
4	<i>Pulicaria jaubertii</i> Extract Prevents Triglyceride Deposition in 3T3-L1 Adipocytes. <i>FASEB Journal</i> , 2015 , 29, 924.19	0.9	
3	Effects of Frying in Various Cooking Oils on Fatty Acid Content of Farmed Rainbow Trout (<i>Oncorhynchus Mykiss</i>). <i>FASEB Journal</i> , 2016 , 30, 1163.7	0.9	
2	A low fat diet enhances polyunsaturated fatty acid desaturation and elongation independent of n3 enrichment. <i>FASEB Journal</i> , 2011 , 25, 338.2	0.9	
1	Twice-weekly consumption of farmed Atlantic salmon increases plasma content of phospholipid n-3 fatty acids. <i>FASEB Journal</i> , 2012 , 26, 1016.4	0.9	