

Matthew J Picklo

List of Publications by Year in descending order

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96
papers

3,301
citations

147801

31
h-index

161849

54
g-index

96
all docs

96
docs citations

96
times ranked

4708
citing authors

#	ARTICLE	IF	CITATIONS
1	Carbonylation of Adipose Proteins in Obesity and Insulin Resistance. <i>Molecular and Cellular Proteomics</i> , 2007, 6, 624-637.	3.8	212
2	The Nrf2-antioxidant response element pathway: a target for regulating energy metabolism. <i>Journal of Nutritional Biochemistry</i> , 2012, 23, 1201-1206.	4.2	196
3	Carbonyl Toxicology and Alzheimer's Disease. <i>Toxicology and Applied Pharmacology</i> , 2002, 184, 187-197.	2.8	188
4	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.	2.9	159
5	4-Hydroxy-2(E)-Nonenal Inhibits CNS Mitochondrial Respiration at Multiple Sites. <i>Journal of Neurochemistry</i> , 2001, 72, 1617-1624.	3.9	140
6	Central noradrenergic lesioning using anti-DBH-saporin: anatomical findings. <i>Brain Research</i> , 1996, 740, 175-184.	2.2	127
7	Issues of Fish Consumption for Cardiovascular Disease Risk Reduction. <i>Nutrients</i> , 2013, 5, 1081-1097.	4.1	124
8	Trans-4-hydroxy-2-hexenal is a neurotoxic product of docosahexaenoic (22:6; n-3) acid oxidation. <i>Journal of Neurochemistry</i> , 2008, 105, 714-724.	3.9	87
9	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, 2340-2347.	2.4	85
10	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, 930-937.	4.7	82
11	Expression and Activities of Aldo-Keto Oxidoreductases in Alzheimer Disease. <i>Journal of Neuropathology and Experimental Neurology</i> , 2001, 60, 686-695.	1.7	80
12	Intake of Seafood in the US Varies by Age, Income, and Education Level but Not by Race-Ethnicity. <i>Nutrients</i> , 2014, 6, 6060-6075.	4.1	75
13	Relationship of the Reported Intakes of Fat and Fatty Acids to Body Weight in US Adults. <i>Nutrients</i> , 2017, 9, 438.	4.1	67
14	Oxidation of 4-hydroxy-2-nonenal by succinic semialdehyde dehydrogenase (ALDH5A). <i>Journal of Neurochemistry</i> , 2004, 86, 298-305.	3.9	63
15	Ethanol intoxication increases hepatic N-lysyl protein acetylation. <i>Biochemical and Biophysical Research Communications</i> , 2008, 376, 615-619.	2.1	57
16	Elevation of AKR7A2 (succinic semialdehyde reductase) in neurodegenerative disease. <i>Brain Research</i> , 2001, 916, 229-238.	2.2	56
17	Noradrenergic lesioning with an anti-dopamine β -hydroxylase immunotoxin. <i>Brain Research</i> , 1994, 666, 195-200.	2.2	51
18	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, 2265-2272.	2.9	49

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19	Methods of sympathetic degeneration and alteration. <i>Journal of the Autonomic Nervous System</i> , 1997, 62, 111-125.	1.9	47
20	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, 1272-1279.	3.3	44
21	Midpolarity and Nonpolar Wood Smoke Particulate Matter Fractions Deplete Glutathione in RAW 264.7 Macrophages. <i>Chemical Research in Toxicology</i> , 2006, 19, 255-261.	3.3	43
22	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, 282-287.	0.8	39
23	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.	4.7	38
24	Inhibition of aldehyde detoxification in CNS mitochondria by fungicides. <i>NeuroToxicology</i> , 2007, 28, 143-149.	3.0	37
25	Glutathionyl systems and metabolic dysfunction in obesity. <i>Nutrition Reviews</i> , 2015, 73, 858-868.	5.8	37
26	A High-Fat, High-Oleic Diet, But Not a High-Fat, Saturated Diet, Reduces Hepatic ω -3 Linolenic Acid and Eicosapentaenoic Acid Content in Mice. <i>Lipids</i> , 2016, 51, 537-547.	1.7	36
27	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.	4.2	36
28	Mitochondrial oxidation of 4-hydroxy-2-nonenal in rat cerebral cortex. <i>Journal of Neurochemistry</i> , 2003, 84, 1313-1321.	3.9	35
29	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, 11278-11286.	5.2	34
30	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.	2.9	33
31	Endogenous catechol thioethers may be pro-oxidant or antioxidant. <i>Free Radical Biology and Medicine</i> , 1999, 27, 271-277.	2.9	32
32	Enantioselective Oxidation of trans-4-Hydroxy-2-Nonenal Is Aldehyde Dehydrogenase Isozyme and Mg ²⁺ Dependent. <i>Chemical Research in Toxicology</i> , 2007, 20, 887-895.	3.3	32
33	Mitochondrial Effects of Lipid-Derived Neurotoxins. <i>Journal of Alzheimer's Disease</i> , 2007, 12, 185-193.	2.6	32
34	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.	2.2	30
35	Time-restricted Feeding Attenuates High-fat Diet-enhanced Spontaneous Metastasis of Lewis Lung Carcinoma in Mice. <i>Anticancer Research</i> , 2019, 39, 1739-1748.	1.1	30
36	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.	4.2	29

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37	High-Pressure Liquid Chromatography Quantitation of Cytochrome c Using 393 nm Detection. <i>Analytical Biochemistry</i> , 1999, 276, 166-170.	2.4	28
38	Enhancement of Dopaminergic Neurotoxicity by the Mercapturate of Dopamine. <i>Journal of Neurochemistry</i> , 2000, 74, 970-978.	3.9	28
39	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.	4.2	28
40	Congeners of N ¹ -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, 1028-1036.	2.9	27
41	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.	4.3	27
42	Enantioselective metabolism of trans-4-hydroxy-2-nonenal by brain mitochondria. <i>Free Radical Biology and Medicine</i> , 2005, 39, 913-924.	2.9	27
43	Mercapturate Metabolism of 4-Hydroxy-2-Nonenal in Rat and Human Cerebrum. <i>Journal of Neuro pathology and Experimental Neurology</i> , 2003, 62, 146-153.	1.7	26
44	N-Acetylcysteine Supplementation Decreases Osteoclast Differentiation and Increases Bone Mass in Mice Fed a High-Fat Diet. <i>Journal of Nutrition</i> , 2014, 144, 289-296.	2.9	26
45	High-Fat Diets Containing Different Amounts of n3 and n6 Polyunsaturated Fatty Acids Modulate Inflammatory Cytokine Production in Mice. <i>Lipids</i> , 2016, 51, 571-582.	1.7	25
46	Trans-4-oxo-2-nonenal potently alters mitochondrial function. <i>Free Radical Biology and Medicine</i> , 2011, 50, 400-407.	2.9	23
47	Correlations of SELENOF and SELENOP genotypes with serum selenium levels and prostate cancer. <i>Prostate</i> , 2018, 78, 279-288.	2.3	23
48	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, 182-191.	2.9	22
49	Astrocytic Biotransformation of trans-4-Hydroxy-2-nonenal Is Dose-Dependent. <i>Chemical Research in Toxicology</i> , 2006, 19, 844-851.	3.3	21
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.	2.9	20
51	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, 145-155.	3.1	19
52	Effects of cooking techniques on fatty acid and oxylipin content of farmed rainbow trout (<i>Oncorhynchus mykiss</i>). <i>Food Science and Nutrition</i> , 2017, 5, 1195-1204.	3.4	19
53	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.	3.0	19
54	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, 384-390.	2.9	18

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55	Obesity reduces methionine sulphoxide reductase activity in visceral adipose tissue. <i>Free Radical Research</i> , 2011, 45, 1052-1060.	3.3	18
56	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.	2.9	18
57	Inhibition of Cardiac Myocyte Contraction by 4-Hydroxy- <i>trans</i> -2-Nonenal. <i>Cardiovascular Toxicology</i> , 2004, 4, 21-28.	2.7	17
58	Elevated oxidation of docosahexaenoic acid, 22:6 (n ⁻³), in brain regions of rats undergoing ethanol withdrawal. <i>Neuroscience Letters</i> , 2006, 405, 172-174.	2.1	17
59	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.	2.9	17
60	4-Hydroxy- <i>trans</i> -2-nonenic acid is a δ -hydroxybutyrate receptor ligand in the cerebral cortex and hippocampus. <i>Journal of Neurochemistry</i> , 2004, 89, 1462-1470.	3.9	16
61	Lipidomic Impacts of an Obesogenic Diet Upon Lewis Lung Carcinoma in Mice. <i>Frontiers in Oncology</i> , 2018, 8, 134.	2.8	16
62	Nitrate-Based Vasodilators Inhibit Multiple Vascular Aldehyde Dehydrogenases. <i>Cardiovascular Toxicology</i> , 2005, 5, 321-332.	2.7	15
63	Quantification of <i>trans</i> -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, 115-122.	2.3	15
64	Structural Characterization of \pm -Unsaturated Aldehydes by GC/MS is Dependent upon Ionization Method. <i>Lipids</i> , 2008, 43, 765-774.	1.7	15
65	DOPAMINE MERCAPTURATE CAN AUGMENT DOPAMINERGIC NEURODEGENERATION*. <i>Drug Metabolism Reviews</i> , 2000, 32, 363-376.	3.6	11
66	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.	3.5	11
67	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.	5.5	11
68	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.	4.0	10
69	Time-restricted feeding mice a high-fat diet induces a unique lipidomic profile. <i>Journal of Nutritional Biochemistry</i> , 2021, 88, 108531.	4.2	10
70	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.	2.4	9
71	PPAR mRNA Levels Are Modified by Dietary ω -3 Fatty Acid Restriction and Energy Restriction in the Brain and Liver of Growing Rats. <i>Journal of Nutrition</i> , 2017, 147, 161-169.	2.9	9
72	Direct and indirect high-performance liquid chromatography enantioseparation of <i>trans</i> -4-hydroxy-2-nonenic acid. <i>Journal of Chromatography A</i> , 2007, 1149, 305-311.	3.7	8

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73	Adipose Dysfunction, Interaction of Reactive Oxygen Species, and Inflammation. <i>Advances in Nutrition</i> , 2012, 3, 734-735.	6.4	8
74	Simple, Rapid Lipidomic Analysis of Triacylglycerols in Bovine Milk by Infusion- α Electrospray Mass Spectrometry. <i>Lipids</i> , 2021, 56, 243-255.	1.7	8
75	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.	3.5	7
76	Plasma Metabolomic Changes in Mice With Time-restricted Feeding-attenuated Spontaneous Metastasis of Lewis Lung Carcinoma. <i>Anticancer Research</i> , 2020, 40, 1833-1841.	1.1	7
77	Simplified Mass Spectrometric Analysis of Ceramides using a Common Collision Energy. <i>Lipids</i> , 2019, 54, 471-477.	1.7	6
78	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.	3.7	6
79	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.	0.3	6
80	NADH fluorescence lifetime analysis of the effect of magnesium ions on ALDH2. <i>Chemico-Biological Interactions</i> , 2011, 191, 147-152.	4.0	5
81	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.	1.7	5
82	Leptin Receptor Deficiency Results in Hyperphagia and Increased Fatty Acid Mobilization during Fasting in Rainbow Trout (<i>Oncorhynchus mykiss</i>). <i>Biomolecules</i> , 2022, 12, 516.	4.0	5
83	Analysis of HNE metabolism in CNS models. <i>Redox Report</i> , 2007, 12, 16-19.	4.5	4
84	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.	2.4	4
85	Decreasing the Ratio of Dietary Linoleic to \pm -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.	2.9	4
86	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.	2.8	4
87	<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.	4.0	3
88	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.	1.1	3
89	The conserved R166 residue of ALDH5A (succinic semialdehyde dehydrogenase) has multiple functional roles. <i>Chemico-Biological Interactions</i> , 2009, 178, 70-74.	4.0	2
90	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.	0.9	2

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91	23 Current progress in the Agricultural Research Service Beef Grand Challenge: A large-scale genetics by environment by management evaluation project. Journal of Animal Science, 2020, 98, 13-14.	0.5	1
92	A low fat diet enhances polyunsaturated fatty acid desaturation and elongation independent of n3 enrichment. FASEB Journal, 2011, 25, 338.2.	0.5	0
93	Twice-weekly consumption of farmed Atlantic salmon increases plasma content of phospholipid n-3 fatty acids. FASEB Journal, 2012, 26, 1016.4.	0.5	0
94	Pulicaria jaubertii Extract Prevents Triglyceride Deposition in 3T3-L1 Adipocytes. FASEB Journal, 2015, 29, 924.19.	0.5	0
95	Effects of Frying in Various Cooking Oils on Fatty Acid Content of Farmed Rainbow Trout (Oncorhynchus mykiss) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T	0.5	0
96	Identification of different lipoprotein response types in people following a Mediterranean diet pattern with and without whole eggs. Nutrition Research, 2022, 105, 82-96.	2.9	0