Nirupa R Matthan

List of Publications by Year
in descending order

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109 papers	3,684 citations	87723 38 h-index	138251 58 g-index
110 all docs	110 docs citations	110 times ranked	5663 citing authors

#	Article	IF	Citations
1	Eicosapentaenoic Acid Prevents and Reverses Insulin Resistance in High-Fat Diet-Induced Obese Mice via Modulation of Adipose Tissue Inflammation1â€“3. Journal of Nutrition, 2010, 140, 1915-1922.	1.3	238
2	Effects of PCSK9 Inhibition With Alirocumab on Lipoprotein Metabolism in Healthy Humans. Circulation, 2017, 135, 352-362.	1.6	185
3	Alterations in cholesterol absorption/synthesis markers characterize Framingham Offspring Study participants with CHD. Journal of Lipid Research, 2009, 50, 1927-1935.	2.0	149
4	Extended-Release Niacin Alters the Metabolism of Plasma Apolipoprotein (Apo) A-I and ApoB-Containing Lipoproteins. Arteriosclerosis, Thrombosis, and Vascular Biology, 2008, 28, 1672-1678.	1.1	137
5	Walnut Consumption Alters the Gastrointestinal Microbiota, Microbially Derived Secondary Bile Acids, and Health Markers in Healthy Adults: A Randomized Controlled Trial. Journal of Nutrition, 2018, 148, 861-867.	1.3	118
6	Dietary Hydrogenated Fat Increases High-Density Lipoprotein apoA-I Catabolism and Decreases Low-Density Lipoprotein apoB-100 Catabolism in Hypercholesterolemic Women. Arteriosclerosis, Thrombosis, and Vascular Biology, 2004, 24, 1092-1097.	1.1	105
7	Novel soybean oils with different fatty acid profiles alter cardiovascular disease risk factors in moderately hyperlipidemic subjects. American Journal of Clinical Nutrition, 2006, 84, 497-504.	2.2	103
8	Long-term fatty acid stability in human serum cholesteryl ester, triglyceride, and phospholipid fractions. Journal of Lipid Research, 2010, 51, 2826-2832.	2.0	94
9	Comparison of the effects of maximal dose atorvastatin and rosuvastatin therapy on cholesterol synthesis and absorption markers. Journal of Lipid Research, 2009, 50, 730-739.	2.0	93
10	Estimating the reliability of glycemic index values and potential sources of methodological and biological variability. American Journal of Clinical Nutrition, 2016, 104, 1004-1013.	2.2	86
11	A role for long-chain acyl-CoA synthetase-4 (ACSL4) in diet-induced phospholipid remodeling and obesity-associated adipocyte dysfunction. Molecular Metabolism, 2018, 9, 43-56.	3.0	84
12	Higher plasma docosahexaenoic acid is associated with reduced progression of coronary atherosclerosis in women with CAD. Journal of Lipid Research, 2006, 47, 2814-2819.	2.0	83
13	Effect of soy protein from differently processed products on cardiovascular disease risk factors and vascular endothelial function in hypercholesterolemic subjects. American Journal of Clinical Nutrition, 2007, 85, 960-966.	2.2	82
14	Effect of macronutrients and fiber on postprandial glycemic responses and meal glycemic index and glycemic load value determinations. American Journal of Clinical Nutrition, 2017, 105, 842-853.	2.2	81
15	Cranberries attenuate animal-based diet-induced changes in microbiota composition and functionality: a randomized crossover controlled feeding trial. Journal of Nutritional Biochemistry, 2018, 62, 76-86.	1.9	80
16	Effects of different doses of atorvastatin on human apolipoprotein B-100, B-48, and A-I metabolism. Journal of Lipid Research, 2007, 48, 1746-1753.	2.0	74
17	Chronic and acute effects of walnuts on antioxidant capacity and nutritional status in humans: a randomized, cross-over pilot study. Nutrition Journal, 2010, 9, 21.	1.5	71
18	Reduction in dietary omega-6 polyunsaturated fatty acids: Eicosapentaenoic acid plus docosahexaenoic acid ratio minimizes atherosclerotic lesion formation and inflammatory response in the LDL receptor null mouse. Atherosclerosis, 2009, 204, 147-155.	0.4	69

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19	Plasma Phospholipid Fatty Acid Biomarkers of Dietary Fat Quality and Endogenous Metabolism Predict Coronary Heart Disease Risk: A Nested Caseâ€Control Study Within the Women's Health Initiative Observational Study. Journal of the American Heart Association, 2014, 3, .	1.6	69
20	Impact of simvastatin, niacin, and/or antioxidants on cholesterol metabolism in CAD patients with low HDL. Journal of Lipid Research, 2003, 44, 800-806.	2.0	68
21	Use of hamster as a model to study diet-induced atherosclerosis. Nutrition and Metabolism, 2010, 7, 89.	1.3	68
22	EPA and DHA differentially modulate monocyte inflammatory response in subjects with chronic inflammation in part via plasma specialized pro-resolving lipid mediators: A randomized, double-blind, crossover study. Atherosclerosis, 2021, 316, 90-98.	0.4	62
23	Walnut Extract Inhibits LPS-induced Activation of Bv-2 Microglia via Internalization of TLR4: Possible Involvement of Phospholipase D2. Inflammation, 2010, 33, 325-333.	1.7	60
24	A systematic review and meta-analysis of the impact of Ï‰-3 fatty acids on selected arrhythmia outcomes in animal models. Metabolism: Clinical and Experimental, 2005, 54, 1557-1565.	1.5	57
25	Effects of Dietary Palmitoleic Acid on Plasma Lipoprotein Profile and Aortic Cholesterol Accumulation Are Similar to Those of Other Unsaturated Fatty Acids in the F1B Golden Syrian Hamster. Journal of Nutrition, 2009, 139, 215-221.	1.3	57
26	Effect of prior meal macronutrient composition on postprandial glycemic responses and glycemic index and glycemic load value determinations. American Journal of Clinical Nutrition, 2017, 106, 1246-1256.	2.2	57
27	Perspective: Design and Conduct of Human Nutrition Randomized Controlled Trials. Advances in Nutrition, 2021, 12, 4-20.	2.9	57
28	Approaches to measuring cholesterol absorption in humans. Atherosclerosis, 2004, 174, 197-205.	0.4	55
29	EPA and DHA Exposure Alters the Inflammatory Response but not the Surface Expression of Tollâ€like Receptor 4 in Macrophages. Lipids, 2015, 50, 121-129.	0.7	51
30	Red Blood Cell Membrane Concentration of cis-Palmitoleic and cis-Vaccenic Acids and Risk of Coronary Heart Disease. American Journal of Cardiology, 2012, 110, 539-544.	0.7	50
31	Manipulation of Host Diet To Reduce Gastrointestinal Colonization by the Opportunistic Pathogen Candida albicans. MSphere, 2016, 1, .	1.3	50
32	Deuterium uptake and plasma cholesterol precursor levels correspond as methods for measurement of endogenous cholesterol synthesis in hypercholesterolemic women. Lipids, 2000, 35, 1037-1044.	0.7	49
33	In vitro fatty acid enrichment of macrophages alters inflammatory response and net cholesterol accumulation. British Journal of Nutrition, 2009, 102, 497.	1.2	49
34	Cholesterol absorption and synthesis markers in individuals with and without a CHD event during pravastatin therapy: insights from the PROSPER trial. Journal of Lipid Research, 2010, 51, 202-209.	2.0	48
35	Sexâ€Specific Differences in the Predictive Value of Cholesterol Homeostasis Markers and 10â€Year Cardiovascular Disease Event Rate in Framingham Offspring Study Participants. Journal of the American Heart Association, 2013, 2, e005066.	1.6	48
36	Effect of Diets Differing in Glycemic Index and Glycemic Load on Cardiovascular Risk Factors: Review of Randomized Controlled-Feeding Trials. Nutrients, 2013, 5, 1071-1080.	1.7	48

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37	Comparison of diets enriched in stearic, oleic, and palmitic acids on inflammation, immune response, cardiometabolic risk factors, and fecal bile acid concentrations in mildly hypercholesterolemic postmenopausal womenâ€"randomized crossover trial. American Journal of Clinical Nutrition, 2019, 110, 305-315.	2.2	44
38	Gender-Specific Differences in the Kinetics of Nonfasting TRL, IDL, and LDL Apolipoprotein B-100 in Men and Premenopausal Women. Arteriosclerosis, Thrombosis, and Vascular Biology, 2008, 28, 1838-1843.	1.1	43
39	Familial Combined Hyperlipidemia Is Associated With Alterations in the Cholesterol Synthesis Pathway. Arteriosclerosis, Thrombosis, and Vascular Biology, 2010, 30, 113-120.	1.1	38
40	TRL, IDL, and LDL Apolipoprotein B-100 and HDL Apolipoprotein A-I Kinetics as a Function of Age and Menopausal Status. Arteriosclerosis, Thrombosis, and Vascular Biology, 2005, 25, 1691-1696.	1.1	37
41	Hydrogenated fat consumption affects acylation-stimulating protein levels and cholesterol esterification rates in moderately hypercholesterolemic women. Journal of Lipid Research, 2001, 42, 1841-1848.	2.0	34
42	Validity of Estimated Dietary Eicosapentaenoic Acid and Docosahexaenoic Acid Intakes Determined by Interviewer-Administered Food Frequency Questionnaire Among Older Adults With Mild-to-Moderate Cognitive Impairment or Dementia. American Journal of Epidemiology, 2009, 170, 95-103.	1.6	30
43	Altering dietary lysine:arginine ratio has little effect on cardiovascular risk factors and vascular reactivity in moderately hypercholesterolemic adults. Atherosclerosis, 2010, 210, 555-562.	0.4	27
44	Nutrition and Gastrointestinal Microbiota, Microbial-Derived Secondary Bile Acids, and Cardiovascular Disease. Current Atherosclerosis Reports, 2020, 22, 47.	2.0	26
45	Novel circulating fatty acid patterns and risk of cardiovascular disease: the Cardiovascular Health Study. American Journal of Clinical Nutrition, 2012, 96, 1252-1261.	2.2	25
46	Hydrogenated fat consumption affects cholesterol synthesis in moderately hypercholesterolemic women. Journal of Lipid Research, 2000, 41, 834-839.	2.0	25
47	Substitution of vegetable oil for a partially-hydrogenated fat favorably alters cardiovascular disease risk factors in moderately hypercholesterolemic postmenopausal women. Atherosclerosis, 2009, 207, 208-212.	0.4	24
48	Fat-Soluble Bioactive Components in Colored Rice Varieties. Journal of Medicinal Food, 2014, 17, 1134-1141.	0.8	20
49	Dietary Supplementation With Medium-Chain Triglycerides Reduces Candida Gastrointestinal Colonization in Preterm Infants. Pediatric Infectious Disease Journal, 2019, 38, 164-168.	1.1	20
50	The Ossabaw Pig Is a Suitable Translational Model to Evaluate Dietary Patterns and Coronary Artery Disease Risk. Journal of Nutrition, 2018, 148, 542-551.	1.3	19
51	Red blood cell MUFAs and risk of coronary artery disease in the Physiciansâ€™ Health Study. American Journal of Clinical Nutrition, 2013, 98, 749-754.	2.2	18
52	Plasma Phospholipid Fatty Acids and Coronary Heart Disease Risk: A Matched Case-Control Study within the Womenâ€™s Health Initiative Observational Study. Nutrients, 2019, 11, 1672.	1.7	18
53	Impact of dietary fat type within the context of altered cholesterol homeostasis on cholesterol and lipoprotein metabolism in the F1B hamster. Metabolism: Clinical and Experimental, 2010, 59, 1491-1501.	1.5	16
54	Lipid content in hepatic and gonadal adipose tissue parallel aortic cholesterol accumulation in mice fed diets with different omega-6 PUFA to EPA plus DHA ratios. Clinical Nutrition, 2014, 33, 260-266.	2.3	14

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55	Dietary Patterns Are Associated with Disease Risk among Participants in the Women's Health Initiative Observational Study3. Journal of Nutrition, 2012, 142, 284-291.	1.3	13
56	Dietary modulators of statin efficacy in cardiovascular disease and cognition. Molecular Aspects of Medicine, 2014, 38, 1-53.	2.7	13
57	Acculturation and Diet Among Chinese American Immigrants in New York City. Current Developments in Nutrition, 2020, 4, nzz124.	0.1	12
58	Effect of Dietary Carbohydrate Type on Serum Cardiometabolic Risk Indicators and Adipose Tissue Inflammatory Markers. Journal of Clinical Endocrinology and Metabolism, 2018, 103, 3430-3438.	1.8	11
59	Embedding weight management into safety-net pediatric primary care: randomized controlled trial. International Journal of Behavioral Nutrition and Physical Activity, 2018, 15, 12.	2.0	11
60	Exploring changes in the human gut microbiota and microbial-derived metabolites in response to diets enriched in simple, refined, or unrefined carbohydrate-containing foods: a post hoc analysis of a randomized clinical trial. American Journal of Clinical Nutrition, 2020, 112, 1631-1641.	2.2	11
61	Supplementation with Seabuckthorn Oil Augmented in 16:1nâ€“7tIncreases SerumTrans-Palmitoleic Acid in Metabolically Healthy Adults: A Randomized Crossover Dose-Escalation Study. Journal of Nutrition, 2020, 150, 1388-1396.	1.3	11
62	Associations of Serum Nonesterified Fatty Acids With Coronary Heart Disease Mortality and Nonfatal Myocardial Infarction: The CHS (Cardiovascular Health Study) Cohort. Journal of the American Heart Association, 2021, 10, e019135.	1.6	10
63	Carotenoid-Rich Brain Nutrient Pattern Is Positively Correlated With Higher Cognition and Lower Depression in the Oldest Old With No Dementia. Frontiers in Nutrition, 2021, 8, 704691.	1.6	10
64	Changes in cholesterol homeostasis modify the response of F1B hamsters to dietary very long chain n-3 and n-6 polyunsaturated fatty acids. Lipids in Health and Disease, 2011, 10, 186.	1.2	9
65	Aortic cholesterol accumulation correlates with systemic inflammation but not hepatic and gonadal adipose tissue inflammation in low-density lipoprotein receptor null mice. Nutrition Research, 2013, 33, 1072-1082.	1.3	8
66	Higher Lipophilic Index Indicates Higher Risk of Coronary Heart Disease in Postmenopausal Women. Lipids, 2017, 52, 687-702.	0.7	8
67	Effect of Incorporating 1 Avocado Per Day Versus Habitual Diet on Visceral Adiposity: A Randomized Trial. Journal of the American Heart Association, 2022, 11, .	1.6	8
68	Enhanced Aortic Macrophage Lipid Accumulation and Inflammatory Response in LDL Receptor Null Mice Fed an Atherogenic Diet. Lipids, 2010, 45, 701-711.	0.7	7
69	Linoleic Acid Suppresses Cholesterol Efflux and ATPâ€Binding Cassette Transporters in Murine Bone Marrowâ€Derived Macrophages. Lipids, 2014, 49, 415-422.	0.7	7
70	The Subcellular Distribution of Alpha-Tocopherol in the Adult Primate Brain and Its Relationship with Membrane Arachidonic Acid and Its Oxidation Products. Antioxidants, 2017, 6, 97.	2.2	7
71	Dietary patterns influence epicardial adipose tissue fatty acid composition and inflammatory gene expression in the Ossabaw pig. Journal of Nutritional Biochemistry, 2019, 70, 138-146.	1.9	7
72	Serum Individual Nonesterified Fatty Acids and Risk of Heart Failure in Older Adults. Cardiology, 2021, 146, 351-358.	0.6	7

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73	Western and heart healthy dietary patterns differentially affect the expression of genes associated with lipid metabolism, interferon signaling and inflammation in the jejunum of Ossabaw pigs. Journal of Nutritional Biochemistry, 2021, 90, 108577.	1.9	7
74	Fatty acids and osteoarthritis: the MOST study. Osteoarthritis and Cartilage, 2021, 29, 973-978.	0.6	7
75	Oncogenic Integration of Nucleotide Metabolism via Fatty Acid Synthase in Non-Hodgkin Lymphoma. Frontiers in Oncology, 2021, 11, 725137.	1.3	7
76	Docosahexaenoic acid suppresses apolipoprotein A-I gene expression through hepatocyte nuclear factor-3Î². American Journal of Clinical Nutrition, 2011, 94, 594-600.	2.2	6
77	A Western-type dietary pattern and atorvastatin induce epicardial adipose tissue interferon signaling in the Ossabaw pig. Journal of Nutritional Biochemistry, 2019, 67, 212-218.	1.9	6
78	Exploring the effect of vitamin D3 supplementation on surrogate biomarkers of cholesterol absorption and endogenous synthesis in patients with type 2 diabetesâ€"randomized controlled trial. American Journal of Clinical Nutrition, 2020, 112, 538-547.	2.2	6
79	Serum Non-Esterified Fatty Acids, Carotid Artery Intima-Media Thickness and Flow-Mediated Dilation in Older Adults: The Cardiovascular Health Study (CHS). Nutrients, 2021, 13, 3052.	1.7	5
80	The design and rationale of a multi-center randomized clinical trial comparing one avocado per day to usual diet: The Habitual Diet and Avocado Trial (HAT). Contemporary Clinical Trials, 2021, 110, 106565.	0.8	5
81	Individual non-esterified fatty acids and incident atrial fibrillation late in life. Heart, 2021, 107, 1805-1812.	1.2	5
82	Plasma Metabolite Profiles Following Consumption of Animal Protein and Soybean-Based Diet in Hypercholesterolemic Postmenopausal Women. Metabolites, 2022, 12, 209.	1.3	5
83	Background Diet and Fat Type Alters Plasma Lipoprotein Response but not Aortic Cholesterol Accumulation in F1B Golden Syrian Hamsters. Lipids, 2013, 48, 1177-1184.	0.7	4
84	Postprandial lipid responses to standard carbohydrates used to determine glycaemic index values. British Journal of Nutrition, 2013, 110, 1782-1788.	1.2	4
85	Comparison of the Postprandial Metabolic Fate of U- ¹³ C Stearic Acid and U- ¹³ C Oleic Acid in Postmenopausal Women. Arteriosclerosis, Thrombosis, and Vascular Biology, 2020, 40, 2953-2964.	1.1	4
86	Simplified method for the measurement of plasma alkylresorcinols: Biomarkers of wholeâ€grain intake. Rapid Communications in Mass Spectrometry, 2020, 34, e8805.	0.7	4
87	Tamm-Horsfall protein 1 macrophage lipid accumulation unaffected by fatty acid double-bond geometric or positional configuration. Nutrition Research, 2011, 31, 625-630.	1.3	3
88	Effect of a Family-Based Intervention on Nutrient Biomarkers, Desaturase Enzyme Activities, and Cardiometabolic Risk Factors in Children with Overweight and Obesity. Current Developments in Nutrition, 2020, 4, nzz138.	0.1	3
89	The Relationship of Lutein and DHA in Cognitive Function. FASEB Journal, 2013, 27, 638.18.	0.2	3
90	Serum Nonesterified Fatty Acids and Incident Stroke: The CHS. Journal of the American Heart Association, 2021, 10, e022725.	1.6	3

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91	Spillover Effects of a Family-Based Childhood Weight-Management Intervention on Parental Nutrient Biomarkers and Cardiometabolic Risk Factors. Current Developments in Nutrition, 2022, 6, nzab152.	0.1	3
92	Erythrocyte stearidonic acid and other n-3 fatty acids and CHD in the Physicians' Health Study. British Journal of Nutrition, 2013, 109, 2044-2049.	1.2	2
93	Reply to TMS Wolever. American Journal of Clinical Nutrition, 2017, 106, 705-706.	2.2	2
94	Reply to Brighenti F et al.. American Journal of Clinical Nutrition, 2018, 107, 846-847.	2.2	2
95	Colon transcriptome is modified by a dietary pattern/atorvastatin interaction in the Ossabaw pig. Journal of Nutritional Biochemistry, 2021, 90, 108570.	1.9	2
96	Reply to TMS Wolever et al.. American Journal of Clinical Nutrition, 2017, 105, 769-770.	2.2	1
97	A Western-Type Dietary Pattern Induces an Atherogenic Gene Expression Profile in the Coronary Arteries of the Ossabaw Pig. Current Developments in Nutrition, 2019, 3, nzz023.	0.1	1
98	The effect of soybean-based foods on plasma lipid and lipoprotein concentrations. American Journal of Clinical Nutrition, 2007, 86, 1253.	2.2	0
99	Differential Effects of Individual Trans Fatty Acid Isomers on Lipoprotein Assembly and Metabolism. Nutrition Reviews, 2009, 57, 282-284.	2.6	0
100	Reply to D TricÃ² and A Natali. American Journal of Clinical Nutrition, 2017, 106, 702.	2.2	0
101	Effects of EPA and DHA Supplementation on Plasma Specialized Pro-resolving Lipid Mediators and Blood Monocyte Inflammatory Response in Subjects with Chronic Inflammation (OR29-01-19). Current Developments in Nutrition, 2019, 3, nzz031.OR29-01-19.	0.1	0
102	Dietary Patterns Differentially Affect Microbiome Composition and Function in a Porcine Model of Obesity-related Metabolic Disorder (OR23-04-19). Current Developments in Nutrition, 2019, 3, nzz040.OR23-04-19.	0.1	0
103	Variation of dietary lysine:arginine ratio does not affect cholesterol biosynthesis in hypercholesterolemic individuals. FASEB Journal, 2009, 23, 722.12.	0.2	0
104	Lower dietary nâ€6 polyunsaturated fatty acids: eicosapentaenoic acid plus docosahexaenoic acid ratio decreases the expression of inflammatory factors in livers and visceral adipose tissue in LDL receptor null mice. FASEB Journal, 2012, 26, 1026.17.	0.2	0
105	Differential effect of docosahexaenoic acid (DHA) versus myrisitc acid (MA) on inflammatory cytokines. FASEB Journal, 2013, 27, 127.5.	0.2	0
106	Linoleic acid suppresses cholesterol efflux and ATPâ€binding cassette transporters in murine bone marrowâ€derived macrophages. FASEB Journal, 2013, 27, 361.7.	0.2	0
107	Lutein and DHA Coâ€localize in Cell Membranes of Brain Regions Controlling Cognition in the Rhesus Macaque. FASEB Journal, 2016, 30, 689.2.	0.2	0
108	Low Plasma Carotene Concentrations Are Associated with an Increased Risk of Acute Coronary Syndrome in a Korean Population. FASEB Journal, 2017, 31, 635.3.	0.2	0

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109	The Ossabaw Pig as a Model for Diet Induced Atherosclerosis and Statin Responsiveness. FASEB Journal, 2017, 31, 140.4.	0.2	0