

Elizabeth J Johnson

List of Publications by Citations

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99
papers

5,885
citations

38
h-index

76
g-index

99
ext. papers

6,690
ext. citations

4.5
avg, IF

6.18
L-index

#	Paper	IF	Citations
99	Carotenoid actions and their relation to health and disease. <i>Molecular Aspects of Medicine</i> , 2005 , 26, 459-516	16.1	884
98	The role of carotenoids in human health. <i>Nutrition in Clinical Care: an Official Publication of Tufts University</i> , 2002 , 5, 56-65		370
97	Relation among serum and tissue concentrations of lutein and zeaxanthin and macular pigment density. <i>American Journal of Clinical Nutrition</i> , 2000 , 71, 1555-62	7	241
96	Xanthophyll (lutein, zeaxanthin) content in fruits, vegetables and corn and egg products. <i>Journal of Food Composition and Analysis</i> , 2009 , 22, 9-15	4.1	225
95	Role of lutein and zeaxanthin in visual and cognitive function throughout the lifespan. <i>Nutrition Reviews</i> , 2014 , 72, 605-12	6.4	223
94	Lutein bioavailability is higher from lutein-enriched eggs than from supplements and spinach in men. <i>Journal of Nutrition</i> , 2004 , 134, 1887-93	4.1	207
93	Cognitive findings of an exploratory trial of docosahexaenoic acid and lutein supplementation in older women. <i>Nutritional Neuroscience</i> , 2008 , 11, 75-83	3.6	199
92	Dietary cholesterol and cardiovascular disease: a systematic review and meta-analysis. <i>American Journal of Clinical Nutrition</i> , 2015 , 102, 276-94	7	187
91	Relationship between Serum and Brain Carotenoids, α -Tocopherol, and Retinol Concentrations and Cognitive Performance in the Oldest Old from the Georgia Centenarian Study. <i>Journal of Aging Research</i> , 2013 , 2013, 951786	2.3	161
90	Nutritional manipulation of primate retinas, III: Effects of lutein or zeaxanthin supplementation on adipose tissue and retina of xanthophyll-free monkeys. <i>Investigative Ophthalmology and Visual Science</i> , 2005 , 46, 692-702		159
89	Lutein and zeaxanthin supplementation reduces photooxidative damage and modulates the expression of inflammation-related genes in retinal pigment epithelial cells. <i>Free Radical Biology and Medicine</i> , 2012 , 53, 1298-307	7.8	158
88	A possible role for lutein and zeaxanthin in cognitive function in the elderly. <i>American Journal of Clinical Nutrition</i> , 2012 , 96, 1161S-5S	7	127
87	Clinical trial of lutein in patients with retinitis pigmentosa receiving vitamin A. <i>JAMA Ophthalmology</i> , 2010 , 128, 403-11		126
86	Nutritional manipulation of primate retinas, V: effects of lutein, zeaxanthin, and n-3 fatty acids on retinal sensitivity to blue-light-induced damage 2011 , 52, 3934-42		121
85	Predictors of optical density of lutein and zeaxanthin in retinas of older women in the Carotenoids in Age-Related Eye Disease Study, an ancillary study of the Women's Health Initiative. <i>American Journal of Clinical Nutrition</i> , 2006 , 84, 1107-22	7	113
84	Macular lutein and zeaxanthin are related to brain lutein and zeaxanthin in primates. <i>Nutritional Neuroscience</i> , 2013 , 16, 21-9	3.6	106
83	Lutein and preterm infants with decreased concentrations of brain carotenoids. <i>Journal of Pediatric Gastroenterology and Nutrition</i> , 2014 , 59, 659-65	2.8	105

82	The influence of supplemental lutein and docosahexaenoic acid on serum, lipoproteins, and macular pigmentation. <i>American Journal of Clinical Nutrition</i> , 2008 , 87, 1521-9	7	101
81	Macular pigment optical density is related to cognitive function in older people. <i>Age and Ageing</i> , 2014 , 43, 271-5	3	98
80	Nutritional manipulation of primate retinas, I: effects of lutein or zeaxanthin supplements on serum and macular pigment in xanthophyll-free rhesus monkeys. <i>Investigative Ophthalmology and Visual Science</i> , 2004 , 45, 3234-43		96
79	Effect of dietary lutein and zeaxanthin on plasma carotenoids and their transport in lipoproteins in age-related macular degeneration. <i>American Journal of Clinical Nutrition</i> , 2007 , 85, 762-9	7	95
78	Genetic evidence for role of carotenoids in age-related macular degeneration in the Carotenoids in Age-Related Eye Disease Study (CAREDS) 2014 , 55, 587-99		91
77	Site-specific concentrations of carotenoids in adipose tissue: relations with dietary and serum carotenoid concentrations in healthy adults. <i>American Journal of Clinical Nutrition</i> , 2009 , 90, 533-9	7	86
76	Intake of lutein and zeaxanthin differ with age, sex, and ethnicity. <i>Journal of the American Dietetic Association</i> , 2010 , 110, 1357-62		79
75	Intrinsic and Extrinsic Factors Impacting Absorption, Metabolism, and Health Effects of Dietary Carotenoids. <i>Advances in Nutrition</i> , 2018 , 9, 465-492	10	75
74	The role of phytonutrients in skin health. <i>Nutrients</i> , 2010 , 2, 903-28	6.7	71
73	Potential role of dietary n-3 fatty acids in the prevention of dementia and macular degeneration. <i>American Journal of Clinical Nutrition</i> , 2006 , 83, 1494S-1498S	7	69
72	Genetic determinants of macular pigments in women of the Carotenoids in Age-Related Eye Disease Study 2013 , 54, 2333-45		68
71	Ingestion by men of a combined dose of beta-carotene and lycopene does not affect the absorption of beta-carotene but improves that of lycopene. <i>Journal of Nutrition</i> , 1997 , 127, 1833-7	4.1	66
70	Lutein and Brain Function. <i>Foods</i> , 2015 , 4, 547-564	4.9	64
69	Macular pigment carotenoids in the retina and occipital cortex are related in humans. <i>Nutritional Neuroscience</i> , 2016 , 19, 95-101	3.6	60
68	Obesity, lutein metabolism, and age-related macular degeneration: a web of connections. <i>Nutrition Reviews</i> , 2005 , 63, 9-15	6.4	60
67	Dietary guidance for lutein: consideration for intake recommendations is scientifically supported. <i>European Journal of Nutrition</i> , 2017 , 56, 37-42	5.2	57
66	Determination of carotenoids in yellow maize, the effects of saponification and food preparations. <i>International Journal for Vitamin and Nutrition Research</i> , 2008 , 78, 112-20	1.7	54
65	Macular pigment optical density in the elderly: findings in a large biracial Midsouth population sample. <i>Investigative Ophthalmology and Visual Science</i> , 2007 , 48, 1458-65		45

64	Exploratory Metabolomic Analyses Reveal Compounds Correlated with Lutein Concentration in Frontal Cortex, Hippocampus, and Occipital Cortex of Human Infant Brain. <i>PLoS ONE</i> , 2015 , 10, e0136904	3.7	41
63	Beta-carotene isomers in human serum, breast milk and buccal mucosa cells after continuous oral doses of all-trans and 9-cis beta-carotene. <i>Journal of Nutrition</i> , 1997 , 127, 1993-9	4.1	38
62	A comparison of carotenoids, retinoids, and tocopherols in the serum and buccal mucosa of chronic cigarette smokers versus nonsmokers. <i>Cancer Epidemiology Biomarkers and Prevention</i> , 2006 , 15, 993-9	4	38
61	Age-related macular degeneration and antioxidant vitamins: recent findings. <i>Current Opinion in Clinical Nutrition and Metabolic Care</i> , 2010 , 13, 28-33	3.8	36
60	A Biological Role of Lutein. <i>Food Reviews International</i> , 2004 , 20, 1-16	5.5	36
59	Dietary bioactives: establishing a scientific framework for recommended intakes. <i>Advances in Nutrition</i> , 2015 , 6, 1-4	10	35
58	Avocado Consumption Increases Macular Pigment Density in Older Adults: A Randomized, Controlled Trial. <i>Nutrients</i> , 2017 , 9,	6.7	34
57	The selective retention of lutein, meso-zeaxanthin and zeaxanthin in the retina of chicks fed a xanthophyll-free diet. <i>Experimental Eye Research</i> , 2007 , 84, 591-8	3.7	31
56	Avocado consumption and risk factors for heart disease: a systematic review and meta-analysis. <i>American Journal of Clinical Nutrition</i> , 2018 , 107, 523-536	7	29
55	Lutein across the Lifespan: From Childhood Cognitive Performance to the Aging Eye and Brain. <i>Current Developments in Nutrition</i> , 2019 , 3, nzz066	0.4	28
54	Serum carotenoids and risk of age-related macular degeneration in a chinese population sample 2011 , 52, 4338-44		28
53	Lutein, zeaxanthin, meso-zeaxanthin content in egg yolk and their absence in fish and seafood. <i>Journal of Food Composition and Analysis</i> , 2012 , 27, 139-144	4.1	27
52	Dose-Response Relation between Tea Consumption and Risk of Cardiovascular Disease and All-Cause Mortality: A Systematic Review and Meta-Analysis of Population-Based Studies. <i>Advances in Nutrition</i> , 2020 , 11, 790-814	10	26
51	Almond Consumption and Risk Factors for Cardiovascular Disease: A Systematic Review and Meta-analysis of Randomized Controlled Trials. <i>Advances in Nutrition</i> , 2019 , 10, 1076-1088	10	24
50	Lutein accumulates in subcellular membranes of brain regions in adult rhesus macaques: Relationship to DHA oxidation products. <i>PLoS ONE</i> , 2017 , 12, e0186767	3.7	23
49	Effect of Carotenoid Supplemented Formula on Carotenoid Bioaccumulation in Tissues of Infant Rhesus Macaques: A Pilot Study Focused on Lutein. <i>Nutrients</i> , 2017 , 9,	6.7	22
48	Supplementation with lutein or lutein plus green tea extracts does not change oxidative stress in adequately nourished older adults. <i>Journal of Nutritional Biochemistry</i> , 2010 , 21, 544-9	6.3	22
47	Nutrients for the aging eye. <i>Clinical Interventions in Aging</i> , 2013 , 8, 741-8	4	20

46	Parahippocampal Cortex Mediates the Relationship between Lutein and Crystallized Intelligence in Healthy, Older Adults. <i>Frontiers in Aging Neuroscience</i> , 2016 , 8, 297	5.3	20
45	Lutein and age-related ocular disorders in the older adult: a review. <i>Journal of Nutrition in Gerontology and Geriatrics</i> , 2007 , 26, 139-57		19
44	Relationship between Concentrations of Lutein and StARD3 among Pediatric and Geriatric Human Brain Tissue. <i>PLoS ONE</i> , 2016 , 11, e0155488	3.7	19
43	Lutein Is Differentially Deposited across Brain Regions following Formula or Breast Feeding of Infant Rhesus Macaques. <i>Journal of Nutrition</i> , 2018 , 148, 31-39	4.1	18
42	Serum Carotenoids, Tocopherols, Total n-3 Polyunsaturated Fatty Acids, and n-6/n-3 Polyunsaturated Fatty Acid Ratio Reflect Brain Concentrations in a Cohort of Centenarians. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2019 , 74, 306-314	6.4	17
41	The relationship of macular pigment optical density to serum lutein in retinitis pigmentosa 2010 , 51, 1086-91		17
40	The naturally occurring β -tocopherol stereoisomer RRR- β -tocopherol is predominant in the human infant brain. <i>British Journal of Nutrition</i> , 2016 , 116, 126-31	3.6	16
39	Metabolism of lutein and zeaxanthin in rhesus monkeys: identification of (3R,6'R)- and (3R,6'S)-3'-dehydro-lutein as common metabolites and comparison to humans. <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 2008 , 151, 70-8	2.3	15
38	Lutein/zeaxanthin intake and visual outcomes in adults with healthy eyes: Qualitative gap analysis. <i>Cogent Medicine</i> , 2019 , 6, 1683939	1.4	14
37	Validation of a Dietary Screening Tool in a Middle-Aged Appalachian Population. <i>Nutrients</i> , 2018 , 10,	6.7	12
36	Perspective: The Role of Beverages as a Source of Nutrients and Phytonutrients. <i>Advances in Nutrition</i> , 2020 , 11, 507-523	10	11
35	A Pilot Randomized Controlled Trial of a New Supplementary Food Designed to Enhance Cognitive Performance during Prevention and Treatment of Malnutrition in Childhood. <i>Current Developments in Nutrition</i> , 2017 , 1,	0.4	10
34	Clinico-Neuropathological Findings in the Oldest Old from the Georgia Centenarian Study. <i>Journal of Alzheimer's Disease</i> , 2019 , 70, 35-49	4.3	9
33	Effects of Intake of Apples, Pears, or Their Products on Cardiometabolic Risk Factors and Clinical Outcomes: A Systematic Review and Meta-Analysis. <i>Current Developments in Nutrition</i> , 2019 , 3, nzz109	0.4	9
32	Concentrations of Circulating Phylloquinone, but Not Cerebral Menaquinone-4, Are Positively Correlated with a Wide Range of Cognitive Measures: Exploratory Findings in Centenarians. <i>Journal of Nutrition</i> , 2020 , 150, 82-90	4.1	8
31	Lutein and Cognition Across the Lifespan. <i>Nutrition Today</i> , 2017 , 52, 183-189	1.6	7
30	Effects of daily almond consumption for six months on cognitive measures in healthy middle-aged to older adults: a randomized control trial. <i>Nutritional Neuroscience</i> , 2021 , 1-11	3.6	7
29	Brain xanthophyll content and exploratory gene expression analysis: subspecies differences in rhesus macaque. <i>Genes and Nutrition</i> , 2017 , 12, 9	4.3	6

28	Bioavailability of AREDS1 micronutrients from softgel capsules and tablets: a pilot study. <i>Molecular Vision</i> , 2014 , 20, 1228-42	2.3	6
27	Lutein and Zeaxanthin and Eye Disease 2013 , 215-235		6
26	Short-Term Tea Consumption Is Not Associated with a Reduction in Blood Lipids or Pressure: A Systematic Review and Meta-Analysis of Randomized Controlled Trials. <i>Journal of Nutrition</i> , 2020 , 150, 3269-3279	4.1	6
25	The association between macular pigment optical density and visual function outcomes: a systematic review and meta-analysis. <i>Eye</i> , 2021 , 35, 1620-1628	4.4	6
24	Maternal Intake of Lutein and Zeaxanthin during Pregnancy Is Positively Associated with Offspring Verbal Intelligence and Behavior Regulation in Mid-Childhood in the Project Viva Cohort. <i>Journal of Nutrition</i> , 2021 , 151, 615-627	4.1	6
23	Xanthophylls. <i>Advances in Nutrition</i> , 2018 , 9, 160-162	10	5
22	Fat-soluble vitamins. <i>World Review of Nutrition and Dietetics</i> , 2015 , 111, 38-44	0.2	5
21	Daily almond consumption in cardiovascular disease prevention via LDL-C change in the U.S. population: a cost-effectiveness analysis. <i>BMC Public Health</i> , 2020 , 20, 558	4.1	4
20	The Subcellular Distribution of Alpha-Tocopherol in the Adult Primate Brain and Its Relationship with Membrane Arachidonic Acid and Its Oxidation Products. <i>Antioxidants</i> , 2017 , 6,	7.1	4
19	Carotenoid-Rich Brain Nutrient Pattern Is Positively Correlated With Higher Cognition and Lower Depression in the Oldest Old With No Dementia. <i>Frontiers in Nutrition</i> , 2021 , 8, 704691	6.2	3
18	Maternal diet quality during pregnancy and child cognition and behavior in a US cohort. <i>American Journal of Clinical Nutrition</i> , 2021 ,	7	3
17	Closer to clarity on the effect of lipid consumption on fat-soluble vitamin and carotenoid absorption: do we need to close in further?. <i>American Journal of Clinical Nutrition</i> , 2017 , 106, 969-970	7	2
16	Something New Under the Sun: Lutein's Role in Skin Health. <i>American Journal of Lifestyle Medicine</i> , 2009 , 3, 349-352	1.9	2
15	Potato consumption and risk of cardio-metabolic diseases: evidence mapping of observational studies. <i>Systematic Reviews</i> , 2020 , 9, 274	3	2
14	Beyond Nutrient Deficiency-Opportunities to Improve Nutritional Status and Promote Health Modernizing DRIs and Supplementation Recommendations. <i>Nutrients</i> , 2021 , 13,	6.7	2
13	Walnut intake, cognitive outcomes and risk factors: a systematic review and meta-analysis. <i>Annals of Medicine</i> , 2021 , 53, 971-997	1.5	2
12	Carotenoids 2019 , 383-391		1
11	Differential Expression of Genes Involved in Inflammatory Immune Response and Protein Ubiquitination in the Prefrontal Cortex of Rhesus Macaque with High and Low Lutein Content. <i>FASEB Journal</i> , 2016 , 30, 913.8	0.9	1

- 10 Nutrient absorption in the human gastrointestinal tract **2015**, 3-34
- 9 Eye Disease **2012**, 939-981
- 8 Nutrition and the Aging Eye **2015**, 57-79
- 7 Lutein and DHA Co-localize in Cell Membranes of Brain Regions Controlling Cognition in the Rhesus Macaque. *FASEB Journal*, **2016**, 30, 689.2 0.9
- 6 Choline and its metabolites are differentially associated with cardiometabolic risk and cardio- and cerebro-vascular disease. *FASEB Journal*, **2016**, 30, 904.18 0.9
- 5 Low Plasma Carotene Concentrations Are Associated with an Increased Risk of Acute Coronary Syndrome in a Korean Population. *FASEB Journal*, **2017**, 31, 635.3 0.9
- 4 The Ratio of HDL to LDL in Serum Is Related to Macular Pigment Density and Cognitive Function in Older Adults: Potential Insights into Lutein Transport to Neural Tissue. *FASEB Journal*, **2017**, 31, 170.3 0.9
- 3 Lutein and Zeaxanthin in Red Blood Cells as a Measure of Their Status in Humans. *FASEB Journal*, **2010**, 24, 92.3 0.9
- 2 Tocopherol absorption into a three-dimensional human skin tissue model. *FASEB Journal*, **2012**, 26, 1019.2 0.9
- 1 The photoprotective effects of almond phytonutrients in a three-dimensional human skin tissue model. *FASEB Journal*, **2012**, 26, 823.23 0.9