

Paul S Bernstein

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177
papers

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48
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92
g-index

186
ext. papers

10,428
ext. citations

5.8
avg. IF

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L-index

#	Paper	IF	Citations
177	Mutation of the Stargardt disease gene (ABCR) in age-related macular degeneration. <i>Science</i> , 1997 , 277, 1805-7	33.3	742
176	A variant of the HTRA1 gene increases susceptibility to age-related macular degeneration. <i>Science</i> , 2006 , 314, 992-3	33.3	648
175	Genome-wide association study of advanced age-related macular degeneration identifies a role of the hepatic lipase gene (LIPC). <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 7395-400	11.5	345
174	Chemistry, distribution, and metabolism of tomato carotenoids and their impact on human health. <i>Experimental Biology and Medicine</i> , 2002 , 227, 845-51	3.7	328
173	Identification and quantitation of carotenoids and their metabolites in the tissues of the human eye. <i>Experimental Eye Research</i> , 2001 , 72, 215-23	3.7	302
172	Lutein, zeaxanthin, and meso-zeaxanthin: The basic and clinical science underlying carotenoid-based nutritional interventions against ocular disease. <i>Progress in Retinal and Eye Research</i> , 2016 , 50, 34-66	20.5	292
171	Secondary analyses of the effects of lutein/zeaxanthin on age-related macular degeneration progression: AREDS2 report No. 3. <i>JAMA Ophthalmology</i> , 2014 , 132, 142-9	3.9	254
170	Resonance Raman measurement of macular carotenoids in normal subjects and in age-related macular degeneration patients. <i>Ophthalmology</i> , 2002 , 109, 1780-7	7.3	207
169	Identification and characterization of a Pi isoform of glutathione S-transferase (GSTP1) as a zeaxanthin-binding protein in the macula of the human eye. <i>Journal of Biological Chemistry</i> , 2004 , 279, 49447-54	5.4	188
168	Toll-like receptor 3 and geographic atrophy in age-related macular degeneration. <i>New England Journal of Medicine</i> , 2008 , 359, 1456-63	59.2	180
167	Microbial xanthophylls. <i>Applied Microbiology and Biotechnology</i> , 2005 , 68, 445-55	5.7	164
166	CFH Y402H confers similar risk of soft drusen and both forms of advanced AMD. <i>PLoS Medicine</i> , 2006 , 3, e5	11.6	161
165	Promoter polymorphism of the erythropoietin gene in severe diabetic eye and kidney complications. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 6998-7003	11.5	157
164	Identification of StARD3 as a lutein-binding protein in the macula of the primate retina. <i>Biochemistry</i> , 2011 , 50, 2541-9	3.2	144
163	Evaluation of the Best disease gene in patients with age-related macular degeneration and other maculopathies. <i>Human Genetics</i> , 1999 , 104, 449-53	6.3	128
162	Transformations of selected carotenoids in plasma, liver, and ocular tissues of humans and in nonprimate animal models. <i>Investigative Ophthalmology and Visual Science</i> , 2002 , 43, 3383-92		115
161	Noninvasive assessment of dermal carotenoids as a biomarker of fruit and vegetable intake. <i>American Journal of Clinical Nutrition</i> , 2010 , 92, 794-800	7	112

160	Effect of Omega-3 Fatty Acids, Lutein/Zeaxanthin, or Other Nutrient Supplementation on Cognitive Function: The AREDS2 Randomized Clinical Trial. <i>JAMA - Journal of the American Medical Association</i> , 2015 , 314, 791-801	27.4	109
159	A rare nonsynonymous sequence variant in C3 is associated with high risk of age-related macular degeneration. <i>Nature Genetics</i> , 2013 , 45, 1371-4	36.3	104
158	Studies on the singlet oxygen scavenging mechanism of human macular pigment. <i>Archives of Biochemistry and Biophysics</i> , 2010 , 504, 56-60	4.1	103
157	The value of measurement of macular carotenoid pigment optical densities and distributions in age-related macular degeneration and other retinal disorders. <i>Vision Research</i> , 2010 , 50, 716-28	2.1	100
156	HTRA1 variant confers similar risks to geographic atrophy and neovascular age-related macular degeneration. <i>Cell Cycle</i> , 2007 , 6, 1122-5	4.7	99
155	Lutein/zeaxanthin for the treatment of age-related cataract: AREDS2 randomized trial report no. 4. <i>JAMA Ophthalmology</i> , 2013 , 131, 843-50	3.9	96
154	The Natural History of the Progression of Atrophy Secondary to Stargardt Disease (ProgStar) Studies: Design and Baseline Characteristics: ProgStar Report No. 1. <i>Ophthalmology</i> , 2016 , 123, 817-28	7.3	94
153	Serine and Lipid Metabolism in Macular Disease and Peripheral Neuropathy. <i>New England Journal of Medicine</i> , 2019 , 381, 1422-1433	59.2	91
152	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
151	Long-chain and very long-chain polyunsaturated fatty acids in ocular aging and age-related macular degeneration. <i>Journal of Lipid Research</i> , 2010 , 51, 3217-29	6.3	90
150	Transport and retinal capture of lutein and zeaxanthin with reference to age-related macular degeneration. <i>Survey of Ophthalmology</i> , 2008 , 53, 68-81	6.1	90
149	Ligand-binding characterization of xanthophyll carotenoids to solubilized membrane proteins derived from human retina. <i>Experimental Eye Research</i> , 2001 , 72, 381-92	3.7	89
148	Purification and partial characterization of a lutein-binding protein from human retina. <i>Biochemistry</i> , 2009 , 48, 4798-807	3.2	86
147	Inactivity of human β -carotene-9',10'-dioxygenase (BCO2) underlies retinal accumulation of the human macular carotenoid pigment. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 10173-8	11.5	85
146	In vivo resonant Raman measurement of macular carotenoid pigments in the young and the aging human retina. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2002 , 19, 1172-86	1.8	85
145	Macular carotenoid levels of normal subjects and age-related maculopathy patients in a Japanese population. <i>Ophthalmology</i> , 2008 , 115, 147-57	7.3	81
144	Resonance Raman measurement of macular carotenoids in the living human eye. <i>Archives of Biochemistry and Biophysics</i> , 2004 , 430, 163-9	4.1	77
143	Human ocular carotenoid-binding proteins. <i>Photochemical and Photobiological Sciences</i> , 2010 , 9, 1418-25	4.2	76

142	Retinal carotenoids can attenuate formation of A2E in the retinal pigment epithelium. <i>Archives of Biochemistry and Biophysics</i> , 2009 , 483, 175-81	4.1	71
141	Bundling hand hygiene interventions and measurement to decrease health care-associated infections. <i>American Journal of Infection Control</i> , 2012 , 40, S18-27	3.8	69
140	Genetic determinants of macular pigments in women of the Carotenoids in Age-Related Eye Disease Study 2013 , 54, 2333-45		68
139	Adaptive optics microperimetry and OCT images show preserved function and recovery of cone visibility in macular telangiectasia type 2 retinal lesions. <i>Investigative Ophthalmology and Visual Science</i> , 2015 , 56, 778-86		67
138	Resonance Raman quantification of nutritionally important carotenoids in fruits, vegetables, and their juices in comparison to high-pressure liquid chromatography analysis. <i>Journal of Agricultural and Food Chemistry</i> , 2004 , 52, 3281-5	5.7	67
137	RPE65 has an additional function as the lutein to -zeaxanthin isomerase in the vertebrate eye. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 10882-10887	11.5	63
136	Vertebrate and invertebrate carotenoid-binding proteins. <i>Archives of Biochemistry and Biophysics</i> , 2007 , 458, 121-7	4.1	63
135	The Age-Related Eye Disease 2 Study: Micronutrients in the Treatment of Macular Degeneration. <i>Advances in Nutrition</i> , 2017 , 8, 40-53	10	61
134	Significant correlations of dermal total carotenoids and dermal lycopene with their respective plasma levels in healthy adults. <i>Archives of Biochemistry and Biophysics</i> , 2010 , 504, 34-9	4.1	58
133	Synergistic effects of zeaxanthin and its binding protein in the prevention of lipid membrane oxidation. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2005 , 1740, 116-21	6.9	56
132	Nonmydriatic fluorescence-based quantitative imaging of human macular pigment distributions. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2006 , 23, 2373-87	1.8	56
131	Identification and metabolic transformations of carotenoids in ocular tissues of the Japanese quail <i>Coturnix japonica</i> . <i>Biochemistry</i> , 2007 , 46, 9050-7	3.2	49
130	Resonant Raman detection of macular pigment levels in the living human retina. <i>Optics Letters</i> , 2001 , 26, 202-4	3	48
129	Role of ELOVL4 and very long-chain polyunsaturated fatty acids in mouse models of Stargardt type 3 retinal degeneration. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 5181-6	11.5	47
128	Evaluation of the ELOVL4 gene in patients with age-related macular degeneration. <i>Ophthalmic Genetics</i> , 2001 , 22, 233-9	1.2	47
127	Photophysical properties of xanthophylls in carotenoproteins from human retinas. <i>Photochemistry and Photobiology</i> , 2003 , 78, 138-45	3.6	47
126	26th Hohenheim Consensus Conference, September 11, 2010 Scientific substantiation of health claims: evidence-based nutrition. <i>Nutrition</i> , 2011 , 27, S1-20	4.8	45
125	Resonance Raman measurement of macular carotenoids in retinal, choroidal, and macular dystrophies. <i>JAMA Ophthalmology</i> , 2003 , 121, 967-72		45

124	Interrelationships between maternal carotenoid status and newborn infant macular pigment optical density and carotenoid status 2013 , 54, 5568-78		44
123	Resonance Raman imaging of macular pigment distributions in the human retina. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2008 , 25, 947-57	1.8	44
122	Solubilization and stabilization of macular carotenoids by water soluble oligosaccharides and polysaccharides. <i>Archives of Biochemistry and Biophysics</i> , 2015 , 572, 58-65	4.1	43
121	Fluorescence Lifetime Imaging Ophthalmoscopy: A Novel Way to Assess Macular Telangiectasia Type 2. <i>Ophthalmology Retina</i> , 2018 , 2, 587-598	3.8	43
120	Microbial carotenoids. <i>Methods in Molecular Biology</i> , 2012 , 898, 41-59	1.4	43
119	Blue-light reflectance imaging of macular pigment in infants and children 2013 , 54, 4034-40		43
118	HPLC measurement of ocular carotenoid levels in human donor eyes in the lutein supplementation era. <i>Investigative Ophthalmology and Visual Science</i> , 2007 , 48, 543-9		43
117	What do we know about the macular pigment in AMD: the past, the present, and the future. <i>Eye</i> , 2018 , 32, 992-1004	4.4	42
116	Retinal toxicity associated with occupational exposure to the fish anesthetic MS-222. <i>American Journal of Ophthalmology</i> , 1997 , 124, 843-4	4.9	41
115	Associations of human retinal very long-chain polyunsaturated fatty acids with dietary lipid biomarkers. <i>Journal of Lipid Research</i> , 2016 , 57, 499-508	6.3	40
114	Retinol-binding protein and retinol analysis in cerebrospinal fluid and serum of patients with and without idiopathic intracranial hypertension. <i>Journal of Neuro-Ophthalmology</i> , 2007 , 27, 258-62	2.6	40
113	Patterns of Fundus Autofluorescence Lifetimes In Eyes of Individuals With Nonexudative Age-Related Macular Degeneration 2018 , 59, AMD65-AMD77		40
112	The macular carotenoids: A biochemical overview. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2020 , 1865, 158617	5	39
111	Beta-carotene production by <i>Flavobacterium multivorum</i> in the presence of inorganic salts and urea. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2004 , 31, 565-71	4.2	37
110	Fluorescence Lifetime Imaging Ophthalmoscopy (FLIO) of Macular Pigment 2018 , 59, 3094-3103		37
109	Retinal accumulation of zeaxanthin, lutein, and β -carotene in mice deficient in carotenoid cleavage enzymes. <i>Experimental Eye Research</i> , 2017 , 159, 123-131	3.7	36
108	Towards Treatment of Stargardt Disease: Workshop Organized and Sponsored by the Foundation Fighting Blindness. <i>Translational Vision Science and Technology</i> , 2017 , 6, 6	3.3	36
107	New insights into the role of the macular carotenoids in age-related macular degeneration. Resonance Raman studies. <i>Pure and Applied Chemistry</i> , 2002 , 74, 1419-1425	2.1	36

106	Maintenance of retinoid metabolism in human retinal pigment epithelium cell culture. <i>Experimental Eye Research</i> , 1999 , 69, 97-107	3.7	36
105	Progression of Stargardt Disease as Determined by Fundus Autofluorescence Over a 12-Month Period: ProgStar Report No. 11. <i>JAMA Ophthalmology</i> , 2019 , 137, 1134-1145	3.9	35
104	Optical assessment of skin carotenoid status as a biomarker of vegetable and fruit intake. <i>Archives of Biochemistry and Biophysics</i> , 2018 , 646, 46-54	4.1	34
103	Carotenoids as possible interphotoreceptor retinoid-binding protein (IRBP) ligands: a surface plasmon resonance (SPR) based study. <i>Archives of Biochemistry and Biophysics</i> , 2013 , 539, 181-6	4.1	33
102	Macular pigment imaging in AREDS2 participants: an ancillary study of AREDS2 subjects enrolled at the Moran Eye Center 2012 , 53, 6178-86		33
101	Dietary modification and moderate antioxidant supplementation differentially affect serum carotenoids, antioxidant levels and markers of oxidative stress in older humans. <i>Journal of Nutrition</i> , 2003 , 133, 3117-23	4.1	32
100	Surface plasmon resonance (SPR) studies on the interactions of carotenoids and their binding proteins. <i>Archives of Biochemistry and Biophysics</i> , 2012 , 519, 32-7	4.1	31
99	Macular pigment Raman detector for clinical applications. <i>Journal of Biomedical Optics</i> , 2004 , 9, 139-48	3.5	31
98	Structure of the lutein-binding domain of human StARD3 at 1.74 Å resolution and model of a complex with lutein. <i>Acta Crystallographica Section F, Structural Biology Communications</i> , 2016 , 72, 609-18	1.1	31
97	Correlations Between Macular, Skin, and Serum Carotenoids 2017 , 58, 3616-3627		30
96	Review of clinical approaches in fluorescence lifetime imaging ophthalmoscopy. <i>Journal of Biomedical Optics</i> , 2018 , 23, 1-20	3.5	29
95	Identification of a potential susceptibility locus for macular telangiectasia type 2. <i>PLoS ONE</i> , 2012 , 7, e24268	3.7	29
94	Surface plasmon resonance (SPR)-based biosensor technology for the quantitative characterization of protein-carotenoid interactions. <i>Archives of Biochemistry and Biophysics</i> , 2015 , 572, 66-72	4.1	28
93	Imaging lutein and zeaxanthin in the human retina with confocal resonance Raman microscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 12352-12358	11.5	28
92	Identification of 3-methoxyzeaxanthin as a novel age-related carotenoid metabolite in the human macula. <i>Investigative Ophthalmology and Visual Science</i> , 2007 , 48, 1435-40		28
91	All three human scavenger receptor class B proteins can bind and transport all three macular xanthophyll carotenoids. <i>Archives of Biochemistry and Biophysics</i> , 2017 , 634, 21-28	4.1	27
90	Quantitative measurement of 3'-oxolutein from human retina by normal-phase high-performance liquid chromatography coupled to atmospheric pressure chemical ionization mass spectrometry. <i>Analytical Biochemistry</i> , 2005 , 345, 296-301	3.1	27
89	Raman imaging of human macular pigments. <i>Optics Letters</i> , 2002 , 27, 833-5	3	27

88	Association of adipose and red blood cell lipids with severity of dominant Stargardt macular dystrophy (STGD3) secondary to an ELOVL4 mutation. <i>JAMA Ophthalmology</i> , 2006 , 124, 257-63		26
87	Effect of Oral Valproic Acid vs Placebo for Vision Loss in Patients With Autosomal Dominant Retinitis Pigmentosa: A Randomized Phase 2 Multicenter Placebo-Controlled Clinical Trial. <i>JAMA Ophthalmology</i> , 2018 , 136, 849-856	3.9	24
86	Verteporfin photodynamic therapy involving the optic nerve for peripapillary choroidal neovascularization. <i>Retina</i> , 2008 , 28, 81-4	3.6	24
85	Characterization of Retinitis Pigmentosa Using Fluorescence Lifetime Imaging Ophthalmoscopy (FLIO). <i>Translational Vision Science and Technology</i> , 2018 , 7, 20	3.3	24
84	Comprehensive and sensitive quantification of long-chain and very long-chain polyunsaturated fatty acids in small samples of human and mouse retina. <i>Journal of Chromatography A</i> , 2013 , 1307, 191-200	4.5	23
83	Nutrient Supplementation for Age-related Macular Degeneration, Cataract, and Dry Eye. <i>Journal of Ophthalmic and Vision Research</i> , 2014 , 9, 487-93	1.2	23
82	Chapter 7 New insights into the visual cycle. <i>Progress in Retinal and Eye Research</i> , 1991 , 10, 161-178		23
81	Crystalline Maculopathy Associated With High-Dose Lutein Supplementation. <i>JAMA Ophthalmology</i> , 2016 , 134, 1445-1448	3.9	21
80	Genotype-phenotype analysis of ABCR variants in macular degeneration probands and siblings. <i>Investigative Ophthalmology and Visual Science</i> , 2002 , 43, 466-73		21
79	Changes in Macular Pigment Optical Density and Serum Lutein Concentration in Japanese Subjects Taking Two Different Lutein Supplements. <i>PLoS ONE</i> , 2015 , 10, e0139257	3.7	20
78	A missense mutation in HK1 leads to autosomal dominant retinitis pigmentosa 2014 , 55, 7159-64		20
77	Developmentally Regulated Production of meso-Zeaxanthin in Chicken Retinal Pigment Epithelium/Choroid and Retina 2016 , 57, 1853-61		20
76	Relationship between Concentrations of Lutein and StARD3 among Pediatric and Geriatric Human Brain Tissue. <i>PLoS ONE</i> , 2016 , 11, e0155488	3.7	19
75	Standardizing the Assessment of Macular Pigment Using a Dual-Wavelength Autofluorescence Technique. <i>Translational Vision Science and Technology</i> , 2019 , 8, 41	3.3	19
74	MACULAR PIGMENT DISTRIBUTION RESPONSES TO HIGH-DOSE ZEAXANTHIN SUPPLEMENTATION IN PATIENTS WITH MACULAR TELANGIECTASIA TYPE 2. <i>Retina</i> , 2017 , 37, 2238-2247	3.6	18
73	Prohibitin as the Molecular Binding Switch in the Retinal Pigment Epithelium. <i>Protein Journal</i> , 2016 , 35, 1-16	3.9	18
72	Supplementation with macular carotenoids improves visual performance of transgenic mice. <i>Archives of Biochemistry and Biophysics</i> , 2018 , 649, 22-28	4.1	18
71	Rethinking A2E 2013 , 54, 5543		16

70	Mechanism of action of aromatic amines that short-circuit the visual cycle. <i>Biochemistry</i> , 1986 , 25, 3370-73.2		16
69	Effect of an antioxidant supplement containing high dose lutein and zeaxanthin on macular pigment and skin carotenoid levels. <i>Scientific Reports</i> , 2020 , 10, 10262	4.9	15
68	Effect of age and other factors on macular pigment optical density measured with resonance Raman spectroscopy. <i>Graefes Archive for Clinical and Experimental Ophthalmology</i> , 2014 , 252, 1221-8	3.8	15
67	Altered Cytoskeleton as a Mitochondrial Decay Signature in the Retinal Pigment Epithelium. <i>Protein Journal</i> , 2016 , 35, 179-92	3.9	15
66	Resonance Raman spectroscopy and the preterm infant carotenoid status. <i>Journal of Pediatric Gastroenterology and Nutrition</i> , 2013 , 56, 556-9	2.8	14
65	Resonance Raman based skin carotenoid measurements in newborns and infants. <i>Journal of Biophotonics</i> , 2013 , 6, 793-802	3.1	13
64	Resonant Raman quantification of zeaxanthin production from <i>Flavobacterium multivorum</i> . <i>Biotechnology Letters</i> , 2003 , 25, 1007-11	3	13
63	Optogenetics for retinal disorders. <i>Journal of Ophthalmic and Vision Research</i> , 2014 , 9, 374-82	1.2	13
62	Fluorescence Lifetime Imaging Ophthalmoscopy (FLIO) in Eyes With Pigment Epithelial Detachments Due to Age-Related Macular Degeneration 2019 , 60, 3054-3063		12
61	A Compact Telemanipulated Retinal-Surgery System that Uses Commercially Available Instruments with a Quick-Change Adapter. <i>Journal of Medical Robotics Research</i> , 2016 , 01, 1630001	1.1	12
60	Genetic Penetrance of Macular Telangiectasia Type 2. <i>JAMA Ophthalmology</i> , 2018 , 136, 1158-1163	3.9	12
59	Optical coherence tomography before and after repair of a macular hole induced by an unintentional argon laser burn. <i>JAMA Ophthalmology</i> , 2005 , 123, 404-5		12
58	The specific inhibition of 11-cis-retinyl palmitate formation in the frog eye by diaminophenoxypentane, an inhibitor of rhodopsin regeneration. <i>Vision Research</i> , 1985 , 25, 741-8	2.1	12
57	Skin Carotenoids as Biomarker for Vegetable and Fruit Intake: Validation of the Reflection-Spectroscopy Based Veggie Meter. <i>FASEB Journal</i> , 2016 , 30, 409.3	0.9	12
56	Protein-Flavonoid Interaction Studies by a Taylor Dispersion Surface Plasmon Resonance (SPR) Technique: A Novel Method to Assess Biomolecular Interactions. <i>Biosensors</i> , 2016 , 6,	5.9	12
55	Grade of Cataract and Its Influence on Measurement of Macular Pigment Optical Density Using Autofluorescence Imaging 2018 , 59, 3011-3019		11
54	Skin Carotenoid Index in a large Japanese population sample. <i>Scientific Reports</i> , 2019 , 9, 9318	4.9	11
53	Ocular Carotenoid Status in Health and Disease. <i>Annual Review of Nutrition</i> , 2019 , 39, 95-120	9.9	10

52	Diagnostic & therapeutic challenges. Tamoxifen toxicity. <i>Retina</i> , 2007 , 27, 982-8	3.6	10
51	Imaging of Hydroxychloroquine Toxicity with Fluorescence Lifetime Imaging Ophthalmoscopy. <i>Ophthalmology Retina</i> , 2019 , 3, 814-825	3.8	9
50	Macular and serum carotenoid concentrations in patients with malabsorption syndromes. <i>Journal of Ocular Biology, Diseases, and Informatics</i> , 2008 , 1, 12-8		9
49	Fluorescence lifetime imaging ophthalmoscopy: autofluorescence imaging and beyond. <i>Eye</i> , 2021 , 35, 93-109	4.4	9
48	FUNDUS-WIDE SUBRETINAL AND PIGMENT EPITHELIAL ABNORMALITIES IN MACULAR TELANGIECTASIA TYPE 2. <i>Retina</i> , 2018 , 38 Suppl 1, S105-S113	3.6	8
47	Production of deuterated lutein by <i>Chlorella protothecoides</i> and its detection by mass spectrometric methods. <i>Biotechnology Letters</i> , 2006 , 28, 1371-5	3	8
46	The emerging roles of the macular pigment carotenoids throughout the lifespan and in prenatal supplementation. <i>Journal of Lipid Research</i> , 2021 , 62, 100038	6.3	8
45	Long-term follow-up of autosomal dominant Stargardt macular dystrophy (STGD3) subjects enrolled in a fish oil supplement interventional trial. <i>Ophthalmic Genetics</i> , 2018 , 39, 307-313	1.2	7
44	Role of long-chain and very-long-chain polyunsaturated fatty acids in macular degenerations and dystrophies. <i>Clinical Lipidology</i> , 2011 , 6, 593-613		7
43	Measurement of carotenoids in the living primate eye using resonance Raman spectroscopy. <i>Methods in Molecular Biology</i> , 2002 , 196, 321-9	1.4	7
42	Lutein and zeaxanthin reduce A2E and iso-A2E levels and improve visual performance in <i>Abca4/Bco2</i> double knockout mice. <i>Experimental Eye Research</i> , 2021 , 209, 108680	3.7	7
41	n-3 PUFA Supplementation Alters Retinal Very-Long-Chain-PUFA Levels and Ratios in Diabetic Animal Models. <i>Molecular Nutrition and Food Research</i> , 2019 , 63, e1801058	5.9	6
40	Spatial distribution of macular pigment estimated by autofluorescence imaging in elderly Japanese individuals. <i>Japanese Journal of Ophthalmology</i> , 2020 , 64, 160-170	2.6	6
39	Reflection-based imaging of macular pigment distributions in infants and children. <i>Journal of Biomedical Optics</i> , 2013 , 18, 116001	3.5	6
38	Assessment of the validity of in vivo methods of measuring human macular pigment optical density. <i>Optometry and Vision Science</i> , 2006 , 83, 254-5; author reply 256-9	2.1	6
37	Production of deuterated zeaxanthin by <i>Flavobacterium multivorum</i> and its detection by resonance Raman and mass spectrometric methods. <i>Biotechnology Letters</i> , 2005 , 27, 1719-23	3	6
36	Interactome Mapping Guided by Tissue-Specific Phosphorylation in Age-Related Macular Degeneration. <i>International Journal of Scientific and Engineering Research</i> , 2017 , 8, 680-699	1.8	6
35	The Lutein and Zeaxanthin in Pregnancy (L-ZIP) study-carotenoid supplementation during pregnancy: ocular and systemic effects-study protocol for a randomized controlled trial. <i>Trials</i> , 2021 , 22, 300	2.8	6

34	Retinal bioavailability and functional effects of a synthetic very-long-chain polyunsaturated fatty acid in mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	6
33	Quantification of macular carotenoids using autofluorescence imaging in patients with photosensitive migraine and benign essential blepharospasm. <i>JAMA Ophthalmology</i> , 2012 , 130, 259-60		5
32	Photophysical Properties of Xanthophylls in Carotenoproteins from Human Retina. <i>Photochemistry and Photobiology</i> , 2007 , 78, 138-145	3.6	5
31	Discordant retinitis pigmentosa in monozygotic twins. <i>JAMA Ophthalmology</i> , 2003 , 121, 1059-62		5
30	FLUORESCENCE LIFETIME IMAGING OPHTHALMOSCOPY (FLIO) PATTERNS IN CLINICALLY UNAFFECTED CHILDREN OF MACULAR TELANGIECTASIA TYPE 2 (MACTEL) PATIENTS. <i>Retina</i> , 2020 , 40, 695-704	3.6	5
29	Autofluorescence Lifetimes Measured with Fluorescence Lifetime Imaging Ophthalmoscopy (FLIO) Are Affected by Age, but Not by Pigmentation or Gender. <i>Translational Vision Science and Technology</i> , 2020 , 9, 2	3.3	5
28	Membrane cholesterol regulates TRPV4 function, cytoskeletal expression, and the cellular response to tension. <i>Journal of Lipid Research</i> , 2021 , 100145	6.3	4
27	Optical Detection of Macular Pigment Formation in Premature Infants. <i>Translational Vision Science and Technology</i> , 2018 , 7, 3	3.3	4
26	Raman Detection of Carotenoids in Human Tissue 2005 ,		3
25	Fluorescence Lifetime Imaging Ophthalmoscopy (FLIO) 2019 , 213-235		3
24	Fluorescence Lifetime Imaging Ophthalmoscopy (FLIO) in Patients with Choroideremia. <i>Translational Vision Science and Technology</i> , 2020 , 9, 33	3.3	3
23	A connectomics approach to understanding a retinal disease. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 18780-18787	11.5	3
22	ABSENCE OF MACULAR DEGENERATION IN A PATIENT WITH ACERULOPLASMINEMIA. <i>Retina</i> , 2019 , 39, 1824-1828	3.6	3
21	Mouse Models of Stargardt 3 Dominant Macular Degeneration. <i>Advances in Experimental Medicine and Biology</i> , 2016 , 854, 137-43	3.6	2
20	Effect of Haptic-Interface Virtual Kinematics on the Performance and Preference of Novice Users in Telemanipulated Retinal Surgery. <i>IEEE Robotics and Automation Letters</i> , 2017 , 2, 64-71	4.2	2
19	Quantification of RPE Changes in Choroideremia Using a Photoshop-Based Method. <i>Translational Vision Science and Technology</i> , 2020 , 9, 21	3.3	2
18	Oxidative Stress and Age-Related Macular Degeneration. <i>Oxidative Stress and Disease</i> , 2003 ,		2
17	HDL is the primary transporter for carotenoids from liver to retinal pigment epithelium in transgenic ApoA-I/Bco2 mice.. <i>Archives of Biochemistry and Biophysics</i> , 2021 , 716, 109111	4.1	2

16	Macular Carotenoids 2016 , 59-74		1
15	Effect of age and other factors on macular pigment optical density measured with resonance Raman spectroscopy. <i>Graefes Archive for Clinical and Experimental Ophthalmology</i> , 2014 , 252, 1867	3.8	1
14	The role of ocular free radicals in age-related macular degeneration. <i>Cutaneous and Ocular Toxicology</i> , 2001 , 20, 141-181		1
13	Noninvasive Assessment of Carotenoids in the Human Eye and Skin. <i>Oxidative Stress and Disease</i> , 2004 , 53-84		1
12	Relationship between concentrations of lutein and StARD3 among pediatric and geriatric human brain tissue. <i>FASEB Journal</i> , 2016 , 30, 913.7	0.9	1
11	Intentional retinal injury with handheld lasers is an underrecognized form of self-harm. <i>Journal of Affective Disorders</i> , 2021 , 281, 503-504	6.6	1
10	The synthesis of the very long chain polyunsaturated fatty acid (VLC-PUFA) 32:6 n-3. <i>Organic and Biomolecular Chemistry</i> , 2021 , 19, 5563-5566	3.9	1
9	Progressive optic nerve changes in cavitory optic disc anomaly: integration of copy number alteration and cis-expression quantitative trait loci to assess disease etiology. <i>BMC Medical Genetics</i> , 2019 , 20, 63	2.1	0
8	Carotenoids and Age-Related Macular Degeneration 2014 , 77-84		0
7	Retinal laser services in Bhutan: a 3-year national survey. <i>BMC Ophthalmology</i> , 2020 , 20, 404	2.3	0
6	Fluorophores in the Eye 2019 , 35-48		
5	Macular Pigment 2019 , 99-105		
4	Macular Telangiectasia Type 2 2019 , 79-87		
3	Macular Pigment Carotenoids and Their Roles in Human Eye Health and Diseases 2012 , 613-627		
2	Nourishing Better Vision: The ARVO 2021 Mildred Weisenfeld Award Lecture. 2022 , 63, 13		
1	Extraction, detection, and imaging of the macular carotenoids. <i>Methods in Enzymology</i> , 2022 ,	1.7	