Paul S Bernstein

List of Publications by Year
in descending order

184	11,548	29994 54	32761 100
papers	citations	h-index	g-index

186	186	186	9573
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Mutation of the Stargardt Disease Gene (ABCR) in Age-Related Macular Degeneration. Science, 1997, 277, 1805-1807.	6.0	844
2	A Variant of the HTRA1 Gene Increases Susceptibility to Age-Related Macular Degeneration. Science, 2006, 314, 992-993.	6.0	735
3	Genome-wide association study of advanced age-related macular degeneration identifies a role of the hepatic lipase gene (LIPC). Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 7395-7400.	3.3	406
4	Lutein, zeaxanthin, and meso-zeaxanthin: The basic and clinical science underlying carotenoid-based nutritional interventions against ocular disease. Progress in Retinal and Eye Research, 2016, 50, 34-66.	7.3	393
5	Chemistry, Distribution, and Metabolism of Tomato Carotenoids and Their Impact on Human Health. Experimental Biology and Medicine, 2002, 227, 845-851.	1.1	375
6	Identification and Quantitation of Carotenoids and their Metabolites in the Tissues of the Human Eye. Experimental Eye Research, 2001, 72, 215-223.	1.2	339
7	Secondary Analyses of the Effects of Lutein/Zeaxanthin on Age-Related Macular Degeneration Progression. JAMA Ophthalmology, 2014, 132, 142.	1.4	330
8	Identification and Characterization of a Pi Isoform of Glutathione S-Transferase (GSTP1) as a Zeaxanthin-binding Protein in the Macula of the Human Eye. Journal of Biological Chemistry, 2004, 279, 49447-49454.	1.6	236
9	Resonance Raman measurement of macular carotenoids in normal subjects and in age-related macular degeneration patients. Ophthalmology, 2002, 109, 1780-1787.	2.5	231
10	Toll-like Receptor 3 and Geographic Atrophy in Age-Related Macular Degeneration. New England Journal of Medicine, 2008, 359, 1456-1463.	13.9	209
11	CFH Y402H Confers Similar Risk of Soft Drusen and Both Forms of Advanced AMD. PLoS Medicine, 2005, 3, e5.	3.9	199
12	Microbial xanthophylls. Applied Microbiology and Biotechnology, 2005, 68, 445-455.	1.7	196
13	Promoter polymorphism of the erythropoietin gene in severe diabetic eye and kidney complications. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 6998-7003.	3.3	184
14	Identification of StARD3 as a Lutein-Binding Protein in the Macula of the Primate Retina. Biochemistry, 2011, 50, 2541-2549.	1.2	171
15	Serine and Lipid Metabolism in Macular Disease and Peripheral Neuropathy. New England Journal of Medicine, 2019, 381, 1422-1433.	13.9	166
16	Effect of Omega-3 Fatty Acids, Lutein/Zeaxanthin, or Other Nutrient Supplementation on Cognitive Function. JAMA - Journal of the American Medical Association, 2015, 314, 791.	3.8	155
17	Evaluation of the Best disease gene in patients with age-related macular degeneration and other maculopathies. Human Genetics, 1999, 104, 449-453.	1.8	145
18	The value of measurement of macular carotenoid pigment optical densities and distributions in age-related macular degeneration and other retinal disorders. Vision Research, 2010, 50, 716-728.	0.7	132

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19	Noninvasive assessment of dermal carotenoids as a biomarker of fruit and vegetable intake. American Journal of Clinical Nutrition, 2010, 92, 794-800.	2.2	129
20	Long-chain and very long-chain polyunsaturated fatty acids in ocular aging and age-related macular degeneration. Journal of Lipid Research, 2010, 51, 3217-3229.	2.0	127
21	The Natural History of the Progression of Atrophy Secondary to Stargardt Disease (ProgStar) Studies. Ophthalmology, 2016, 123, 817-828.	2.5	126
22	A rare nonsynonymous sequence variant in C3 is associated with high risk of age-related macular degeneration. Nature Genetics, 2013, 45, 1371-1374.	9.4	125
23	Transformations of selected carotenoids in plasma, liver, and ocular tissues of humans and in nonprimate animal models. Investigative Ophthalmology and Visual Science, 2002, 43, 3383-92.	3.3	123
24	Studies on the singlet oxygen scavenging mechanism of human macular pigment. Archives of Biochemistry and Biophysics, 2010, 504, 56-60.	1.4	122
25	Lutein/Zeaxanthin for the Treatment of Age-Related Cataract. JAMA Ophthalmology, 2013, 131, 843.	1.4	119
26	In vivo resonant Raman measurement of macular carotenoid pigments in the young and the aging human retina. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2002, 19, 1172.	0.8	111
27	HTRA1 Variant Confers Similar Risks to Geographic Atrophy and Neovascular Age-related Macular Degeneration. Cell Cycle, 2007, 6, 1122-1125.	1.3	111
28	Genetic Evidence for Role of Carotenoids in Age-Related Macular Degeneration in the Carotenoids in Age-Related Eye Disease Study (CAREDS). , 2014, 55, 587.		109
29	Transport and Retinal Capture of Lutein and Zeaxanthin with Reference to Age-related Macular Degeneration. Survey of Ophthalmology, 2008, 53, 68-81.	1.7	101
30	Purification and Partial Characterization of a Lutein-Binding Protein from Human Retina. Biochemistry, 2009, 48, 4798-4807.	1.2	98
31	Ligand-binding Characterization of Xanthophyll Carotenoids to Solubilized Membrane Proteins Derived from Human Retina. Experimental Eye Research, 2001, 72, 381-392.	1.2	97
32	Macular Carotenoid Levels of Normal Subjects and Age-Related Maculopathy Patients in a Japanese Population. Ophthalmology, 2008, 115, 147-157.	2.5	94
33	Inactivity of human Î²,Î²-carotene-9â€²,10â€²-dioxygenase (BCO2) underlies retinal accumulation of the human macular carotenoid pigment. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 10173-10178.	3.3	93
34	Resonance Raman measurement of macular carotenoids in the living human eye. Archives of Biochemistry and Biophysics, 2004, 430, 163-169.	1.4	89
35	The Age-Related Eye Disease 2 Study: Micronutrients in the Treatment of Macular Degeneration. Advances in Nutrition, 2017, 8, 40-53.	2.9	86
36	Human ocular carotenoid-binding proteins. Photochemical and Photobiological Sciences, 2010, 9, 1418-1425.	1.6	85

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37	Bundling hand hygiene interventions and measurement to decrease health careâ€“associated infections. American Journal of Infection Control, 2012, 40, S18-S27.	1.1	83
38	RPE65 has an additional function as the lutein to meso -zeaxanthin isomerase in the vertebrate eye. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 10882-10887.	3.3	82
39	Adaptive Optics Microperimetry and OCT Images Show Preserved Function and Recovery of Cone Visibility in Macular Telangiectasia Type 2 Retinal Lesions. Investigative Ophthalmology and Visual Science, 2015, 56, 778-786.	3.3	80
40	Retinal carotenoids can attenuate formation of A2E in the retinal pigment epithelium. Archives of Biochemistry and Biophysics, 2009, 483, 175-181.	1.4	79
41	Genetic Determinants of Macular Pigments in Women of the Carotenoids in Age-Related Eye Disease Study. , 2013, 54, 2333.		78
42	Resonance Raman Quantification of Nutritionally Important Carotenoids in Fruits, Vegetables, and Their Juices in Comparison to High-Pressure Liquid Chromatography Analysis. Journal of Agricultural and Food Chemistry, 2004, 52, 3281-3285.	2.4	77
43	Optical assessment of skin carotenoid status as a biomarker of vegetable and fruit intake. Archives of Biochemistry and Biophysics, 2018, 646, 46-54.	1.4	74
44	The macular carotenoids: A biochemical overview. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2020, 1865, 158617.	1.2	74
45	Vertebrate and invertebrate carotenoid-binding proteins. Archives of Biochemistry and Biophysics, 2007, 458, 121-127.	1.4	73
46	Significant correlations of dermal total carotenoids and dermal lycopene with their respective plasma levels in healthy adults. Archives of Biochemistry and Biophysics, 2010, 504, 34-39.	1.4	71
47	What do we know about the macular pigment in AMD: the past, the present, and the future. Eye, 2018, 32, 992-1004.	1.1	70
48	Synergistic effects of zeaxanthin and its binding protein in the prevention of lipid membrane oxidation. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2005, 1740, 116-121.	1.8	69
49	Nonmydriatic fluorescence-based quantitative imaging of human macular pigment distributions. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2006, 23, 2373.	0.8	63
50	Blue-Light Reflectance Imaging of Macular Pigment in Infants and Children. , 2013, 54, 4034.		63
51	26th Hohenheim Consensus Conference, September 11, 2010 Scientific substantiation of health claims: Evidence-based nutrition. Nutrition, 2011, 27, S1-S20.	1.1	61
52	Microbial Carotenoids. Methods in Molecular Biology, 2012, 898, 41-59.	0.4	59
53	Solubilization and stabilization of macular carotenoids by water soluble oligosaccharides and polysaccharides. Archives of Biochemistry and Biophysics, 2015, 572, 58-65.	1.4	59
54	Interrelationships Between Maternal Carotenoid Status and Newborn Infant Macular Pigment Optical Density and Carotenoid Status. , 2013, 54, 5568.		58

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55	Fluorescence Lifetime Imaging Ophthalmoscopy: A Novel Way to Assess Macular Telangiectasia Type 2. Ophthalmology Retina, 2018, 2, 587-598.	1.2	58
56	Identification and Metabolic Transformations of Carotenoids in Ocular Tissues of the Japanese Quail Coturnix japonica. Biochemistry, 2007, 46, 9050-9057.	1.2	57
57	Progression of Stargardt Disease as Determined by Fundus Autofluorescence Over a 12-Month Period. JAMA Ophthalmology, 2019, 137, 1134.	1.4	57
58	Resonant Raman detection of macular pigment levels in the living human retina. Optics Letters, 2001, 26, 202.	1.7	56
59	Imaging lutein and zeaxanthin in the human retina with confocal resonance Raman microscopy. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 12352-12358.	3.3	56
60	Role of ELOVL4 and very long-chain polyunsaturated fatty acids in mouse models of Stargardt type 3 retinal degeneration. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 5181-5186.	3.3	55
61	Associations of human retinal very long-chain polyunsaturated fatty acids with dietary lipid biomarkers. Journal of Lipid Research, 2016, 57, 499-508.	2.0	55
62	Patterns of Fundus Autofluorescence Lifetimes In Eyes of Individuals With Nonexudative Age-Related Macular Degeneration. , 2018, 59, AMD65.		54
63	Evaluation of the ELOVL4 gene in patients with age-related macular degeneration. Ophthalmic Genetics, 2001, 22, 233-239.	0.5	53
64	Retinol-Binding Protein and Retinol Analysis in Cerebrospinal Fluid and Serum of Patients With and Without Idiopathic Intracranial Hypertension. Journal of Neuro-Ophthalmology, 2007, 27, 258-262.	0.4	53
65	Photophysical Properties of Xanthophylls in Carotenoproteins from Human RetinaÂ¶. Photochemistry and Photobiology, 2003, 78, 138.	1.3	53
66	Resonance Raman Measurement of Macular Carotenoids in Retinal, Choroidal, and Macular Dystrophies. JAMA Ophthalmology, 2003, 121, 967.	2.6	52
67	HPLC Measurement of Ocular Carotenoid Levels in Human Donor Eyes in the Lutein Supplementation Era. , 2007, 48, 543.		52
68	Resonance Raman imaging of macular pigment distributions in the human retina. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2008, 25, 947.	0.8	50
69	Fluorescence Lifetime Imaging Ophthalmoscopy (FLIO) of Macular Pigment. , 2018, 59, 3094.		49
70	?-Carotene production by Flavobacterium multivorum in the presence of inorganic salts and urea. Journal of Industrial Microbiology and Biotechnology, 2004, 31, 565-571.	1.4	47
71	Retinal Toxicity Associated With Occupational Exposure to the Fish Anesthetic MS-222. American Journal of Ophthalmology, 1997, 124, 843-844.	1.7	46
72	Retinal accumulation of zeaxanthin, lutein, and Î²-carotene in mice deficient in carotenoid cleavage enzymes. Experimental Eye Research, 2017, 159, 123-131.	1.2	46

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73	Towards Treatment of Stargardt Disease: Workshop Organized and Sponsored by the Foundation Fighting Blindness. Translational Vision Science and Technology, 2017, 6, 6.	1.1	44
74	New insights into the role of the macular carotenoids in age-related macular degeneration. Resonance Raman studies. Pure and Applied Chemistry, 2002, 74, 1419-1425.	0.9	43
75	Review of clinical approaches in fluorescence lifetime imaging ophthalmoscopy. Journal of Biomedical Optics, 2018, 23, 1.	1.4	43
76	Maintenance of Retinoid Metabolism in Human Retinal Pigment Epithelium Cell Culture. Experimental Eye Research, 1999, 69, 97-107.	1.2	42
77	Carotenoids as possible interphotoreceptor retinoid-binding protein (IRBP) ligands: A surface plasmon resonance (SPR) based study. Archives of Biochemistry and Biophysics, 2013, 539, 181-186.	1.4	40
78	Correlations Between Macular, Skin, and Serum Carotenoids. , 2017, 58, 3616.		40
79	Surface plasmon resonance (SPR)-based biosensor technology for the quantitative characterization of proteinâ€“carotenoid interactions. Archives of Biochemistry and Biophysics, 2015, 572, 66-72.	1.4	39
80	Structure of the lutein-binding domain of human StARD3 at 1.74â€…Ã… resolution and model of a complex with lutein. Acta Crystallographica Section F, Structural Biology Communications, 2016, 72, 609-618.	0.4	39
81	Macular pigment Raman detector for clinical applications. Journal of Biomedical Optics, 2004, 9, 139.	1.4	38
82	Raman imaging of human macular pigments. Optics Letters, 2002, 27, 833.	1.7	37
83	Macular Pigment Imaging in AREDS2 Participants: An Ancillary Study of AREDS2 Subjects Enrolled at the Moran Eye Center. , 2012, 53, 6178.		36
84	Comprehensive and sensitive quantification of long-chain and very long-chain polyunsaturated fatty acids in small samples of human and mouse retina. Journal of Chromatography A, 2013, 1307, 191-200.	1.8	36
85	All three human scavenger receptor class B proteins can bind and transport all three macular xanthophyll carotenoids. Archives of Biochemistry and Biophysics, 2017, 634, 21-28.	1.4	36
86	Effect of Oral Valproic Acid vs Placebo for Vision Loss in Patients With Autosomal Dominant Retinitis Pigmentosa. JAMA Ophthalmology, 2018, 136, 849.	1.4	36
87	Dietary Modification and Moderate Antioxidant Supplementation Differentially Affect Serum Carotenoids, Antioxidant Levels and Markers of Oxidative Stress in Older Humans. Journal of Nutrition, 2003, 133, 3117-3123.	1.3	35
88	ASSESSMENT OF THE VALIDITY OF IN VIVO METHODS OF MEASURING HUMAN MACULAR PIGMENT OPTICAL DENSITY. Optometry and Vision Science, 2006, 83, 254-255.	0.6	35
89	Surface plasmon resonance (SPR) studies on the interactions of carotenoids and their binding proteins. Archives of Biochemistry and Biophysics, 2012, 519, 32-37.	1.4	35
90	Identification of a Potential Susceptibility Locus for Macular Telangiectasia Type 2. PLoS ONE, 2012, 7, e24268.	1.1	35

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91	Identification of 3-Methoxyzeaxanthin as a Novel Age-Related Carotenoid Metabolite in the Human Macula. , 2007, 48, 1435.		33
92	Association of Adipose and Red Blood Cell Lipids With Severity of Dominant Stargardt Macular Dystrophy (STGD3) Secondary to an ELOVL4 Mutation. JAMA Ophthalmology, 2006, 124, 257.	2.6	31
93	Nutrient supplementation for age-related macular degeneration, cataract, and dry eye. Journal of Ophthalmic and Vision Research, 2014, 9, 487.	0.7	31
94	Effect of an antioxidant supplement containing high dose lutein and zeaxanthin on macular pigment and skin carotenoid levels. Scientific Reports, 2020, 10, 10262.	1.6	31
95	Chapter 7 New insights into the visual cycle. Progress in Retinal and Eye Research, 1991, 10, 161-178.	0.8	30
96	Quantitative measurement of 3â€²-oxolutein from human retina by normal-phase high-performance liquid chromatography coupled to atmospheric pressure chemical ionization mass spectrometry. Analytical Biochemistry, 2005, 345, 296-301.	1.1	30
97	Standardizing the Assessment of Macular Pigment Using a Dual-Wavelength Autofluorescence Technique. Translational Vision Science and Technology, 2019, 8, 41.	1.1	30
98	Changes in Macular Pigment Optical Density and Serum Lutein Concentration in Japanese Subjects Taking Two Different Lutein Supplements. PLoS ONE, 2015, 10, e0139257.	1.1	29
99	Characterization of Retinitis Pigmentosa Using Fluorescence Lifetime Imaging Ophthalmoscopy (FLIO). Translational Vision Science and Technology, 2018, 7, 20.	1.1	29
100	A Missense Mutation inHK1Leads to Autosomal Dominant Retinitis Pigmentosa. , 2014, 55, 7159.		28
101	VERTEPORFIN PHOTODYNAMIC THERAPY INVOLVING THE OPTIC NERVE FOR PERIPAPILLARY CHOROIDAL NEOVASCULARIZATION. Retina, 2008, 28, 81-84.	1.0	27
102	Relationship between Concentrations of Lutein and StARD3 among Pediatric and Geriatric Human Brain Tissue. PLoS ONE, 2016, 11, e0155488.	1.1	27
103	Crystalline Maculopathy Associated With High-Dose Lutein Supplementation. JAMA Ophthalmology, 2016, 134, 1445.	1.4	26
104	Ocular Carotenoid Status in Health and Disease. Annual Review of Nutrition, 2019, 39, 95-120.	4.3	25
105	Genotype-phenotype analysis of ABCR variants in macular degeneration probands and siblings. Investigative Ophthalmology and Visual Science, 2002, 43, 466-73.	3.3	25
106	Supplementation with macular carotenoids improves visual performance of transgenic mice. Archives of Biochemistry and Biophysics, 2018, 649, 22-28.	1.4	24
107	Skin Carotenoid Index in a large Japanese population sample. Scientific Reports, 2019, 9, 9318.	1.6	24
108	Fluorescence lifetime imaging ophthalmoscopy: autofluorescence imaging and beyond. Eye, 2021, 35, 93-109.	1.1	24

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109	Resonance Raman based skin carotenoid measurements in newborns and infants. Journal of Biophotonics, 2013, 6, 793-802.	1.1	23
110	MACULAR PIGMENT DISTRIBUTION RESPONSES TO HIGH-DOSE ZEAXANTHIN SUPPLEMENTATION IN PATIENTS WITH MACULAR TELANGIECTASIA TYPE 2. Retina, 2017, 37, 2238-2247.	1.0	23
111	The emerging roles of the macular pigment carotenoids throughout the lifespan and in prenatal supplementation. Journal of Lipid Research, 2021, 62, 100038.	2.0	23
112	Prohibitin as the Molecular Binding Switch in the Retinal Pigment Epithelium. Protein Journal, 2016, 35, 1-16.	0.7	22
113	Retinal bioavailability and functional effects of a synthetic very-long-chain polyunsaturated fatty acid in mice. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	22
114	Lutein and zeaxanthin reduce A2E and iso-A2E levels and improve visual performance in Abca4/Bco2 double knockout mice. Experimental Eye Research, 2021, 209, 108680.	1.2	22
115	Developmentally Regulated Production ofmeso-Zeaxanthin in Chicken Retinal Pigment Epithelium/Choroid and Retina. , 2016, 57, 1853.		21
116	Membrane cholesterol regulates TRPV4 function, cytoskeletal expression, and the cellular response to tension. Journal of Lipid Research, 2021, 62, 100145.	2.0	21
117	Resonance Raman Spectroscopy and the Preterm Infant Carotenoid Status. Journal of Pediatric Gastroenterology and Nutrition, 2013, 56, 556-559.	0.9	20
118	Effect of age and other factors on macular pigment optical density measured with resonance Raman spectroscopy. Graefe's Archive for Clinical and Experimental Ophthalmology, 2014, 252, 1221-1228.	1.0	19
119	Altered Cytoskeleton as a Mitochondrial Decay Signature in the Retinal Pigment Epithelium. Protein Journal, 2016, 35, 179-192.	0.7	18
120	Imaging of Hydroxychloroquine Toxicity with Fluorescence Lifetime Imaging Ophthalmoscopy. Ophthalmology Retina, 2019, 3, 814-825.	1.2	18
121	Fluorescence Lifetime Imaging Ophthalmoscopy (FLIO) in Eyes With Pigment Epithelial Detachments Due to Age-Related Macular Degeneration. , 2019, 60, 3054.		18
122	nâ€ PUFA Supplementation Alters Retinal Veryâ€Ł ongâ€Chainâ€PUFA Levels and Ratios in Diabetic Animal Models. Molecular Nutrition and Food Research, 2019, 63, e1801058.	1.5	18
123	Mechanism of action of aromatic amines that short-circuit the visual cycle. Biochemistry, 1986, 25, 3370-3377.	1.2	17
124	Rethinking A2E. , 2013, 54, 5543.		17
125	A Compact Telemanipulated Retinal-Surgery System that Uses Commercially Available Instruments with a Quick-Change Adapter. Journal of Medical Robotics Research, 2016, 01, 1630001.	1.0	17
126	Grade of Cataract and Its Influence on Measurement of Macular Pigment Optical Density Using Autofluorescence Imaging. , 2018, 59, 3011.		17

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127	Optical Coherence Tomography Before and After Repair of a Macular Hole Induced by an Unintentional Argon Laser Burn. JAMA Ophthalmology, 2005, 123, 404.	2.6	16
128	Diagnostic & Therapeutic Challenges. Retina, 2007, 27, 982-988.	1.0	16
129	Genetic Penetrance of Macular Telangiectasia Type 2. JAMA Ophthalmology, 2018, 136, 1158.	1.4	16
130	Skin Carotenoids as Biomarker for Vegetable and Fruit Intake: Validation of the Reflectionâ€Spectroscopy Based â€œVeggie Meterâ€. FASEB Journal, 2016, 30, 409.3.	0.2	16
131	The Lutein and Zeaxanthin in Pregnancy (L-ZIP) studyâ€”carotenoid supplementation during pregnancy: ocular and systemic effectsâ€”study protocol for a randomized controlled trial. Trials, 2021, 22, 300.	0.7	15
132	Optogenetics for retinal disorders. Journal of Ophthalmic and Vision Research, 2014, 9, 374-82.	0.7	15
133	The specific inhibition of 11-cis-retinyl palmitate formation in the frog eye by diaminophenoxypentane, an inhibitor of rhodopsin regeneration. Vision Research, 1985, 25, 741-748.	0.7	14
134	Resonant Raman quantification of zeaxanthin production from Flavobacterium multivorum. Biotechnology Letters, 2003, 25, 1007-1011.	1.1	14
135	Production of Deuterated Lutein by Chlorella protothecoides and its Detection by Mass Spectrometric Methods. Biotechnology Letters, 2006, 28, 1371-1375.	1.1	13
136	Protein-Flavonoid Interaction Studies by a Taylor Dispersion Surface Plasmon Resonance (SPR) Technique: A Novel Method to Assess Biomolecular Interactions. Biosensors, 2016, 6, 6.	2.3	13
137	Long-term follow-up of autosomal dominant Stargardt macular dystrophy (STGD3) subjects enrolled in a fish oil supplement interventional trial. Ophthalmic Genetics, 2018, 39, 307-313.	0.5	13
138	FLUORESCENCE LIFETIME IMAGING OPHTHALMOSCOPY (FLIO) PATTERNS IN CLINICALLY UNAFFECTED CHILDREN OF MACULAR TELANGIECTASIA TYPE 2 (MACTEL) PATIENTS. Retina, 2020, 40, 695-704.	1.0	13
139	Spatial distribution of macular pigment estimated by autofluorescence imaging in elderly Japanese individuals. Japanese Journal of Ophthalmology, 2020, 64, 160-170.	0.9	12
140	Measurement of Carotenoids in the Living Primate Eye Using Resonance Raman Spectroscopy. , 2002, 196, 321-330.		11
141	Autofluorescence Lifetimes Measured with Fluorescence Lifetime Imaging Ophthalmoscopy (FLIO) Are Affected by Age, but Not by Pigmentation or Gender. Translational Vision Science and Technology, 2020, 9, 2.	1.1	11
142	A connectomics approach to understanding a retinal disease. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 18780-18787.	3.3	11
143	Macular and serum carotenoid concentrations in patients with malabsorption syndromes. Journal of Ocular Biology, Diseases, and Informatics, 2008, 1, 12-18.	0.2	10
144	Role of long-chain and very-long-chain polyunsaturated fatty acids in macular degenerations and dystrophies. Clinical Lipidology, 2011, 6, 593-613.	0.4	10

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145	FUNDUS-WIDE SUBRETINAL AND PIGMENT EPITHELIAL ABNORMALITIES IN MACULAR TELANGIECTASIA TYPE 2. Retina, 2018, 38, S105-S113.	1.0	10
146	Optical Detection of Macular Pigment Formation in Premature Infants. Translational Vision Science and Technology, 2018, 7, 3.	1.1	9
147	HDL is the primary transporter for carotenoids from liver to retinal pigment epithelium in transgenic ApoA-I/Bco2 mice. Archives of Biochemistry and Biophysics, 2022, 716, 109111.	1.4	9
148	Relationships between Skin Carotenoid Levels and Metabolic Syndrome. Antioxidants, 2022, 11, 14.	2.2	9
149	Production of Deuterated Zeaxanthin by Flavobacterium Multivorum and its Detection by Resonance Raman and Mass Spectrometric Methods. Biotechnology Letters, 2005, 27, 1719-1723.	1.1	7
150	Reflection-based imaging of macular pigment distributions in infants and children. Journal of Biomedical Optics, 2013, 18, 116001.	1.4	7
151	Fluorescence Lifetime Imaging Ophthalmoscopy (FLIO) in Patients with Choroideremia. Translational Vision Science and Technology, 2020, 9, 33.	1.1	7
152	The synthesis of the very long chain polyunsaturated fatty acid (VLC-PUFA) 32:6 n-3. Organic and Biomolecular Chemistry, 2021, 19, 5563-5566.	1.5	7
153	Discordant Retinitis Pigmentosa in Monozygotic Twins. JAMA Ophthalmology, 2003, 121, 1059.	2.6	6
154	Retinal laser services in Bhutan: a 3-year national survey. BMC Ophthalmology, 2020, 20, 404.	0.6	6
155	Interactome Mapping Guided by Tissue-Specific Phosphorylation in Age-Related Macular Degeneration. International Journal of Scientific and Engineering Research, 2017, 8, 680-698.	0.1	6
156	Lutein and Zeaxanthin Distribution in the Healthy Macula and Its Association with Various Demographic Factors Examined in Pseudophakic Eyes. Antioxidants, 2021, 10, 1857.	2.2	6
157	Photophysical Properties of Xanthophylls in Carotenoproteins from Human RetinaÂ¶. Photochemistry and Photobiology, 2003, 78, 138-145.	1.3	5
158	Quantification of Macular Carotenoids Using Autofluorescence Imaging in Patients With Photosensitive Migraine and Benign Essential Blepharospasm. JAMA Ophthalmology, 2012, 130, 259.	2.6	5
159	Fluorescence Lifetime Imaging Ophthalmoscopy (FLIO). , 2019, , 213-235.		5
160	ABSENCE OF MACULAR DEGENERATION IN A PATIENT WITH ACERULOPLASMINEMIA. Retina, 2019, 39, 1824-1828.	1.0	4
161	Quantification of RPE Changes in Choroideremia Using a Photoshop-Based Method. Translational Vision Science and Technology, 2020, 9, 21.	1.1	4
162	Severity of age-related macular degeneration at first presentation in Bhutan: a 3-year national study. BMC Ophthalmology, 2022, 22, .	0.6	4

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163	Mouse Models of Stargardt 3 Dominant Macular Degeneration. Advances in Experimental Medicine and Biology, 2016, 854, 137-143.	0.8	3
164	Fluorescence Lifetime Imaging Ophthalmoscopy: A New Era of Autofluorescence Imaging of the Human Retina. Retina, 2019, 39, 817-819.	1.0	3
165	Raman Detection of Carotenoids in Human Tissue. , 2005, , .		3
166	Genetic Epidemiologic Analysis of Hypertensive Retinopathy in an Underrepresented and Rare Federally Recognized Native American Population of the Intermountain West. Journal of Community Medicine & Public Health, 2019, 3, .	0.5	3
167	Extraction, detection, and imaging of the macular carotenoids. Methods in Enzymology, 2022, , .	0.4	3
168	Effect of age and other factors on macular pigment optical density measured with resonance Raman spectroscopy. Graefe's Archive for Clinical and Experimental Ophthalmology, 2014, 252, 1867-1867.	1.0	2
169	Effect of Haptic-Interface Virtual Kinematics on the Performance and Preference of Novice Users in Telemanipulated Retinal Surgery. IEEE Robotics and Automation Letters, 2017, 2, 64-71.	3.3	2
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