Joseph Carroll

List of Publications by Year
in descending order

198 papers	9,388 citations	50276 46 h-index	66911 78 g-index
203 all docs	203 docs citations	203 times ranked	4947 citing authors

#	Article	IF	Citations
1	Organization of the Human Trichromatic Cone Mosaic. Journal of Neuroscience, 2005, 25, 9669-9679.	3.6	446
2	In Vivo Imaging of Human Cone Photoreceptor Inner Segments. , 2014, 55, 4244.		310
3	Noninvasive imaging of the human rod photoreceptor mosaic using a confocal adaptive optics scanning ophthalmoscope. Biomedical Optics Express, 2011, 2, 1864.	2.9	305
4	Functional photoreceptor loss revealed with adaptive optics: An alternate cause of color blindness. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 8461-8466.	7.1	267
5	Color Perception Is Mediated by a Plastic Neural Mechanism that Is Adjustable in Adults. Neuron, 2002, 35, 783-792.	8.1	260
6	Race- and Sex-Related Differences in Retinal Thickness and Foveal Pit Morphology. , 2011, 52, 625.		223
7	Adaptation of the central retina for high acuity vision: Cones, the fovea and the avascular zone. Progress in Retinal and Eye Research, 2013, 35, 63-81.	15.5	210
8	The cone dysfunction syndromes: TableÂ1. British Journal of Ophthalmology, 2016, 100, 115-121.	3.9	170
9	High-Resolution Retinal Imaging of Coneâ€“Rod Dystrophy. Ophthalmology, 2006, 113, 1014-1019.e1.	5.2	151
10	Retinal Structure and Function in Achromatopsia. Ophthalmology, 2014, 121, 234-245.	5.2	145
11	The locus of fixation and the foveal cone mosaic. Journal of Vision, 2005, 5, 3-3.	0.3	144
12	Relationship between the Foveal Avascular Zone and Foveal Pit Morphology. , 2012, 53, 1628.		143
13	Adaptive Optics Retinal Imaging: Emerging Clinical Applications. Optometry and Vision Science, 2010, 87, 930-941.	1.2	142
14	Photoreceptor Structure and Function in Patients with Congenital Achromatopsia. , 2011, 52, 7298.		142
15	Adaptive optics optical coherence tomography at 120,000 depth scans/s for non-invasive cellular phenotyping of the living human retina. Optics Express, 2009, 17, 19382.	3.4	136
16	Repeatability of In Vivo Parafoveal Cone Density and Spacing Measurements. Optometry and Vision Science, 2012, 89, 632-643.	1.2	135
17	Estimates of L:M cone ratio from ERG flicker photometry and genetics. Journal of Vision, 2002, 2, 1-1.	0.3	133
18	Arrested development: High-resolution imaging of foveal morphology in albinism. Vision Research, 2010, 50, 810-817.	1.4	121

#	Article	IF	Citations
19	Relationship Between Foveal Cone Specialization and Pit Morphology in Albinism. , 2014, 55, 4186.		119
20	DIRECTIONAL OPTICAL COHERENCE TOMOGRAPHY PROVIDES ACCURATE OUTER NUCLEAR LAYER AND HENLE FIBER LAYER MEASUREMENTS. Retina, 2015, 35, 1511-1520.	1.7	118
21	Vision science and adaptive optics, the state of the field. Vision Research, 2017, 132, 3-33.	1.4	115
22	Earliest Evidence of Preclinical Diabetic Retinopathy Revealed Using Optical Coherence Tomography Angiography Perfused Capillary Density. American Journal of Ophthalmology, 2019, 203, 103-115.	3.3	112
23	Foveal avascular zone and foveal pit formation after preterm birth. British Journal of Ophthalmology, 2012, 96, 961-966.	3.9	110
24	Classification of Human Retinal Microaneurysms Using Adaptive Optics Scanning Light Ophthalmoscope Fluorescein Angiography. , 2014, 55, 1299.		110
25	Adaptive optics retinal imaging reveals S-cone dystrophy in tritan color-vision deficiency. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2007, 24, 1438.	1.5	107
26	Assessing the Accuracy of Foveal Avascular Zone Measurements Using Optical Coherence Tomography Angiography: Segmentation and Scaling. Translational Vision Science and Technology, 2017, 6, 16.	2.2	102
27	Human Cone Visual Pigment Deletions Spare Sufficient Photoreceptors to Warrant Gene Therapy. Human Gene Therapy, 2013, 24, 993-1006.	2.7	97
28	Imaging Foveal Microvasculature: Optical Coherence Tomography Angiography Versus Adaptive Optics Scanning Light Ophthalmoscope Fluorescein Angiography. , 2016, 57, OCT130.		95
29	Evaluating Descriptive Metrics of the Human Cone Mosaic. , 2016, 57, 2992.		91
30	Residual Foveal Cone Structure in CNGB3-Associated Achromatopsia. , 2016, 57, 3984.		90
31	The Effect of Cone Opsin Mutations on Retinal Structure and the Integrity of the Photoreceptor Mosaic. , 2012, 53, 8006.		85
32	High-Resolution Images of Retinal Structure in Patients with Choroideremia. , 2013, 54, 950.		83
33	Flicker-photometric electroretinogram estimates of L:M cone photoreceptor ratio in men with photopigment spectra derived from genetics. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2000, 17, 499.	1.5	82
34	Spatial and temporal variation of rod photoreceptor reflectance in the human retina. Biomedical Optics Express, 2011, 2, 2577.	2.9	82
35	In vivo imaging of the photoreceptor mosaic of a rod monochromat. Vision Research, 2008, 48, 2564-2568.	1.4	81
36	Relationship Between Foveal Cone Structure and Clinical Measures of Visual Function in Patients With Inherited Retinal Degenerations. , 2013, 54, 5836.		81

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37	Assessing Photoreceptor Structure in Retinitis Pigmentosa and Usher Syndrome. , 2016, 57, 2428.		81
38	Adaptive Optics Retinal Imaging â€“ Clinical Opportunities and Challenges. Current Eye Research, 2013, 38, 709-721.	1.5	76
39	Automatic cone photoreceptor segmentation using graph theory and dynamic programming. Biomedical Optics Express, 2013, 4, 924.	2.9	75
40	In vivo imaging of human retinal microvasculature using adaptive optics scanning light ophthalmoscope fluorescein angiography. Biomedical Optics Express, 2013, 4, 1305.	2.9	72
41	ASSESSING PHOTORECEPTOR STRUCTURE ASSOCIATED WITH ELLIPSOID ZONE DISRUPTIONS VISUALIZED WITH OPTICAL COHERENCE TOMOGRAPHY. Retina, 2016, 36, 91-103.	1.7	72
42	Assessing the Use of Incorrectly Scaled Optical Coherence Tomography Angiography Images in Peer-Reviewed Studies. JAMA Ophthalmology, 2020, 138, 86.	2.5	70
43	A Prospective Longitudinal Study of Retinal Structure and Function in Achromatopsia. , 2014, 55, 5733.		68
44	Genotype-Dependent Variability in Residual Cone Structure in Achromatopsia: Toward Developing Metrics for Assessing Cone Health. , 2014, 55, 7303.		67
45	Cone photoreceptor mosaic disruption associated with Cys203Arg mutation in the M-cone opsin. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 20948-20953.	7.1	65
46	Open source software for automatic detection of cone photoreceptors in adaptive optics ophthalmoscopy using convolutional neural networks. Scientific Reports, 2017, 7, 6620.	3.3	65
47	Variety of genotypes in males diagnosed as dichromatic on a conventional clinical anomaloscope. Visual Neuroscience, 2004, 21, 205-216.	1.0	64
48	Retinal Microscotomas Revealed with Adaptive-Optics Microflashes. , 2006, 47, 4160.		64
49	Variable optical activation of human cone photoreceptors visualized using a short coherence light source. Optics Letters, 2009, 34, 3782.	3.3	61
50	Adaptive optics imaging of inherited retinal diseases. British Journal of Ophthalmology, 2018, 102, 1028-1035.	3.9	61
51	Retinal imaging using commercial broadband optical coherence tomography. British Journal of Ophthalmology, 2010, 94, 372-376.	3.9	60
52	Correlation of Outer Nuclear Layer Thickness With Cone Density Values in Patients With Retinitis Pigmentosa and Healthy Subjects. Investigative Ophthalmology and Visual Science, 2015, 56, 372-381.	3.3	60
53	Visualization of Radial Peripapillary Capillaries Using Optical Coherence Tomography Angiography: The Effect of Image Averaging. PLoS ONE, 2017, 12, e0169385.	2.5	59
54	Deletion of the X-linked opsin gene array locus control region (LCR) results in disruption of the cone mosaic. Vision Research, 2010, 50, 1989-1999.	1.4	56

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55	Multimodal Imaging of Photoreceptor Structure in Choroideremia. PLoS ONE, 2016, 11, e0167526.	2.5	56
56	Assessing Retinal Structure in Complete Congenital Stationary Night Blindness and Oguchi Disease. American Journal of Ophthalmology, 2012, 154, 987-1001.e1.	3.3	55
57	Automatic detection of cone photoreceptors in split detector adaptive optics scanning light ophthalmoscope images. Biomedical Optics Express, 2016, 7, 2036.	2.9	55
58	An Automated Reference Frame Selection (ARFS) Algorithm for Cone Imaging with Adaptive Optics Scanning Light Ophthalmoscopy. Translational Vision Science and Technology, 2017, 6, 9.	2.2	55
59	Evaluating outer segment length as a surrogate measure of peak foveal cone density. Vision Research, 2017, 130, 57-66.	1.4	54
60	Assessment of Perfused Foveal Microvascular Density and Identification of Nonperfused Capillaries in Healthy and Vasculopathic Eyes. Investigative Ophthalmology and Visual Science, 2014, 55, 8056-8066.	3.3	52
61	Rapid, Accurate, and Non-Invasive Measurement of Zebrafish Axial Length and Other Eye Dimensions Using SD-OCT Allows Longitudinal Analysis of Myopia and Emmetropization. PLoS ONE, 2014, 9, e110699.	2.5	52
62	Spectral-domain optical coherence tomography and adaptive optics may detect hydroxychloroquine retinal toxicity before symptomatic vision loss. Transactions of the American Ophthalmological Society, 2009, 107, 28-33.	1.4	52
63	REPEATABILITY AND LONGITUDINAL ASSESSMENT OF FOVEAL CONE STRUCTURE IN CNGB3-ASSOCIATED ACHROMATOPSIA. Retina, 2017, 37, 1956-1966.	1.7	50
64	Imaging retinal melanin: a review of current technologies. Journal of Biological Engineering, 2018, 12, 29.	4.7	50
65	Assessing the spatial relationship between fixation and foveal specializations. Vision Research, 2017, 132, 53-61.	1.4	49
66	Automatic Cone Photoreceptor Localisation in Healthy and Stargardt Afflicted Retinas Using Deep Learning. Scientific Reports, 2018, 8, 7911.	3.3	49
67	Clinical Insights Into Foveal Morphology in Albinism. Journal of Pediatric Ophthalmology and Strabismus, 2015, 52, 167-172.	0.7	45
68	Microscopic Inner Retinal Hyper-Reflective Phenotypes in Retinal and Neurologic Disease. , 2014, 55, 4015.		44
69	Parafoveal Nonperfusion Analysis in Diabetic Retinopathy Using Optical Coherence Tomography Angiography. Translational Vision Science and Technology, 2018, 7, 4.	2.2	44
70	Deep Phenotyping ofPDE6C-Associated Achromatopsia. , 2019, 60, 5112.		44
71	Characterization of Retinal Structure in ATF6-Associated Achromatopsia. , 2019, 60, 2631.		43
72	Adaptive Optics Retinal Imaging inCNGA3-Associated Achromatopsia: Retinal Characterization, Interocular Symmetry, and Intrafamilial Variability. , 2019, 60, 383.		43

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73	Automatic detection of modal spacing (Yellott's ring) in adaptive optics scanning light ophthalmoscope images. Ophthalmic and Physiological Optics, 2013, 33, 540-549.	2.0	42
74	Variability of Foveal Avascular Zone Metrics Derived From Optical Coherence Tomography Angiography Images. Translational Vision Science and Technology, 2018, 7, 20.	2.2	42
75	SELECTIVE CONE PHOTORECEPTOR INJURY IN ACUTE MACULAR NEURORETINOPATHY. Retina, 2013, 33, 1650-1658.	1.7	41
76	Deep learning based detection of cone photoreceptors with multimodal adaptive optics scanning light ophthalmoscope images of achromatopsia. Biomedical Optics Express, 2018, 9, 3740.	2.9	41
77	Outer Retinal Structure in Best Vitelliform Macular Dystrophy. JAMA Ophthalmology, 2013, 131, 1207.	2.5	40
78	Longitudinal Assessment of Retinal Structure in Achromatopsia Patients With Long-Term Follow-up. , 2018, 59, 5735.		39
79	Reliability and Repeatability of Cone Density Measurements in Patients with Congenital Achromatopsia. Advances in Experimental Medicine and Biology, 2016, 854, 277-283.	1.6	39
80	Assessing the Photoreceptor Mosaic over Drusen Using Adaptive Optics and SD-OCT. Ophthalmic Surgery Lasers and Imaging Retina, 2010, 41, S104-8.	0.7	39
81	Photoreceptor-Based Biomarkers in AOSLO Retinal Imaging. , 2017, 58, BIO255.		38
82	Foveal Development in Infants Treated with Bevacizumab or Laser Photocoagulation for Retinopathy of Prematurity. Ophthalmology, 2018, 125, 444-452.	5.2	38
83	Cone Photoreceptor Structure in Patients With X-Linked Cone Dysfunction and Red-Green Color Vision Deficiency. , 2016, 57, 3853.		36
84	Reliability and Repeatability of Cone Density Measurements in Patients With Stargardt Disease and RPGR-Associated Retinopathy. , 2017, 58, 3608.		36
85	OUTER RETINAL STRUCTURE AFTER CLOSED-GLOBE BLUNT OCULAR TRAUMA. Retina, 2014, 34, 2133-2146.	1.7	35
86	Noninvasive imaging of the tree shrew eye: Wavefront analysis and retinal imaging with correlative histology. Experimental Eye Research, 2019, 185, 107683.	2.6	34
87	Integrity of the Cone Photoreceptor Mosaic in Oligocone Trichromacy. , 2011, 52, 4757.		33
88	The reliability of parafoveal cone density measurements. British Journal of Ophthalmology, 2014, 98, 1126-1131.	3.9	33
89	Effects of Intraframe Distortion on Measures of Cone Mosaic Geometry from Adaptive Optics Scanning Light Ophthalmoscopy. Translational Vision Science and Technology, 2016, 5, 10.	2.2	33
90	PHOTORECEPTOR INNER SEGMENT MORPHOLOGY IN BEST VITELLIFORM MACULAR DYSTROPHY. Retina, 2017, 37, 741-748.	1.7	33

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91	The Effect of Retinal Melanin on Optical Coherence Tomography Images. Translational Vision Science and Technology, 2017, 6, 8.	2.2	32
92	Imaging Melanin Distribution in the Zebrafish Retina Using Photothermal Optical Coherence Tomography. Translational Vision Science and Technology, 2018, 7, 4.	2.2	32
93	ATF6 is essential for human cone photoreceptor development. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	31
94	Quantitative Analysis of Retinal Structure Using Spectral-Domain Optical Coherence Tomography in RPGR -Associated Retinopathy. American Journal of Ophthalmology, 2017, 178, 18-26.	3.3	30
95	RAC-CNN: multimodal deep learning based automatic detection and classification of rod and cone photoreceptors in adaptive optics scanning light ophthalmoscope images. Biomedical Optics Express, 2019, 10, 3815.	2.9	30
96	Residual Cone Structure in Patients With X-Linked Cone Opsin Mutations. , 2018, 59, 4238.		29
97	Promises and pitfalls of evaluating photoreceptor-based retinal disease with adaptive optics scanning light ophthalmoscopy (AOSLO). Progress in Retinal and Eye Research, 2021, 83, 100920.	15.5	29
98	Spectral Domain Optical Coherence Tomography and Adaptive Optics: Imaging Photoreceptor Layer Morphology to Interpret Preclinical Phenotypes. Advances in Experimental Medicine and Biology, 2010, 664, 309-316.	1.6	29
99	Within-subject assessment of foveal avascular zone enlargement in different stages of diabetic retinopathy using en face OCT reflectance and OCT angiography. Biomedical Optics Express, 2018, 9, 5982.	2.9	29
100	Correlating Photoreceptor Mosaic Structure to Clinical Findings in Stargardt Disease. Translational Vision Science and Technology, 2016, 5, 6.	2.2	27
101	Unsupervised identification of cone photoreceptors in non-confocal adaptive optics scanning light ophthalmoscope images. Biomedical Optics Express, 2017, 8, 3081.	2.9	27
102	A method for age-matched OCT angiography deviation mapping in the assessment of disease- related changes to the radial peripapillary capillaries. PLoS ONE, 2018, 13, e0197062.	2.5	27
103	Color-deficient cone mosaics associated with Xq28 opsin mutations: A stop codon versus gene deletions. Vision Research, 2010, 50, 2396-2402.	1.4	26
104	The Henle Fiber Layer in Albinism: Comparison to Normal and Relationship to Outer Nuclear Layer Thickness and Foveal Cone Density. , 2018, 59, 5336.		26
105	Clinical Characteristics, Mutation Spectrum, and Prevalence of Ã...land Eye Disease/Incomplete Congenital Stationary Night Blindness in Denmark. , 2016, 57, 6861.		25
106	CELLULAR IMAGING OF THE TAPETAL-LIKE REFLEX IN CARRIERS OF RPGR-ASSOCIATED RETINOPATHY. Retina, 2019, 39, 570-580.	1.7	25
107	Photoreceptor Structure inGNAT2-Associated Achromatopsia. , 2020, 61, 40.		25
108	The L:M cone ratio in males of African descent with normal color vision. Journal of Vision, 2008, 8, 5.	0.3	23

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109	Fast adaptive optics scanning light ophthalmoscope retinal montaging. Biomedical Optics Express, 2018, 9, 4317.	2.9	23
110	Assessment of Outer Retinal Remodeling in the Hibernating 13-Lined Ground Squirrel. , 2018, 59, 2538.		23
111	Interocular Symmetry of Foveal Cone Topography in Congenital Achromatopsia. Current Eye Research, 2020, 45, 1257-1264.	1.5	23
112	X-linked cone dystrophy and colour vision deficiency arising from a missense mutation in a hybrid L/M cone opsin gene. Vision Research, 2013, 80, 41-50.	1.4	22
113	Baseline Visual Field Findings in the RUSH2A Study: Associated Factors and Correlation With Other Measures of Disease Severity. American Journal of Ophthalmology, 2020, 219, 87-100.	3.3	22
114	Subclinical Photoreceptor Disruption in Response to Severe Head Trauma. JAMA Ophthalmology, 2012, 130, 400.	2.4	21
115	Evaluating seasonal changes of cone photoreceptor structure in the 13-lined ground squirrel. Vision Research, 2019, 158, 90-99.	1.4	21
116	High-Resolution Imaging of Intraretinal Structures in Active and Resolved Central Serous Chorioretinopathy. , 2017, 58, 42.		20
117	Long-Term Investigation of Retinal Function in Patients with Achromatopsia. , 2020, 61, 38.		19
118	Assessing the Interocular Symmetry of Foveal Outer Nuclear Layer Thickness in Achromatopsia. Translational Vision Science and Technology, 2019, 8, 21.	2.2	18
119	The Utility of Frame Averaging for Automated Algorithms in Analyzing Retinal Vascular Biomarkers in AngioVue OCTA. Translational Vision Science and Technology, 2019, 8, 10.	2.2	17
120	Adaptive Optics and Spectral-Domain Optical Coherence Tomography of Human Photoreceptor Structure After Short Pascal Macular Grid and Panretinal Laser Photocoagulation. JAMA Ophthalmology, 2012, 130, 518.	2.4	16
121	Acid Ceramidase Deficiency in Mice Leads to Severe Ocular Pathology and Visual Impairment. American Journal of Pathology, 2019, 189, 320-338.	3.8	16
122	Photobiomodulation preserves mitochondrial redox state and is retinoprotective in a rodent model of retinitis pigmentosa. Scientific Reports, 2020, 10, 20382.	3.3	16
123	Imaging the Photoreceptor Mosaic with Adaptive Optics: Beyond Counting Cones. Advances in Experimental Medicine and Biology, 2012, 723, 451-458.	1.6	16
124	Retinal Architecture in â€‹RGS9- and â€‹R9AP-Associated Retinal Dysfunction (Bradyopsia). American Journal of Ophthalmology, 2015, 160, 1269-1275.e1.	3.3	15
125	Foveal avascular zone morphology and parafoveal capillary perfusion in sickle cell retinopathy. British Journal of Ophthalmology, 2020, 104, 473-479.	3.9	15
126	Assessing Ganglion Cell Layer Topography in Human Albinism Using Optical Coherence Tomography. , 2020, 61, 36.		15

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127	Challenges Associated With Ellipsoid Zone Intensity Measurements Using Optical Coherence Tomography. Translational Vision Science and Technology, 2021, 10, 27.	2.2	15
128	Imaging the adult zebrafish cone mosaic using optical coherence tomography. Visual Neuroscience, 2016, 33, E011.	1.0	14
129	Axial Scaling Is Independent of Ocular Magnification in OCT Images. , 2018, 59, 3037.		14
130	Novel Development of Parafoveal Capillary Density Deviation Mapping using an Age-Group and Eccentricity Matched Normative OCT Angiography Database. Translational Vision Science and Technology, 2019, 8, 1.	2.2	14
131	Seeking clarity on retinal findings in patients with COVID-19. Lancet, The, 2020, 396, e38.	13.7	14
132	Assessing Interocular Symmetry of the Foveal Cone Mosaic. , 2020, 61, 23.		14
133	A Lensing Effect of Inner Retinal Cysts on Images of the Photoreceptor Mosaic. Retina, 2014, 34, 421-422.	1.7	13
134	ASSESSING PHOTORECEPTOR STRUCTURE AFTER MACULAR HOLE CLOSURE. Retinal Cases and Brief Reports, 2015, 9, 15-20.	0.6	13
135	Comparison of the Morphology of the Foveal Pit Between African and Caucasian Populations. Translational Vision Science and Technology, 2020, 9, 24.	2.2	13
136	Comparison of confocal and non-confocal split-detection cone photoreceptor imaging. Biomedical Optics Express, 2021, 12, 737.	2.9	13
137	Multiexon deletion alleles of ATF6 linked to achromatopsia. JCI Insight, 2020, 5, .	5.0	13
138	Cone Structure in Subjects with Known Genetic Relative Risk for AMD. Optometry and Vision Science, 2014, 91, 939-949.	1.2	12
139	Methods for investigating the local spatial anisotropy and the preferred orientation of cones in adaptive optics retinal images. Visual Neuroscience, 2016, 33, E005.	1.0	12
140	Assessing the Influence of OCT-A Device and Scan Size on Retinal Vascular Metrics. Translational Vision Science and Technology, 2020, 9, 7.	2.2	12
141	Adaptive Optics Retinal Imaging. JAMA Ophthalmology, 2008, 126, 857.	2.4	11
142	RhodopsinF45L Allele Does Not Cause Autosomal Dominant Retinitis Pigmentosa in a Large Caucasian Family. Translational Vision Science and Technology, 2013, 2, 4.	2.2	11
143	Noninvasive Imaging and Correlative Histology of Cone Photoreceptor Structure in the Pig Retina. Translational Vision Science and Technology, 2019, 8, 38.	2.2	11
144	Visual Acuity and Foveal Structure in Eyes with Fragmented Foveal Avascular Zones. Ophthalmology Retina, 2020, 4, 535-544.	2.4	11

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145	Unusual Adaptive Optics Findings in a Patient With Bilateral Maculopathy. JAMA Ophthalmology, 2010, 128, 253.	2.4	10
146	A case of congenital retinal macrovessel in an otherwise normal eye. American Journal of Ophthalmology Case Reports, 2017, 8, 18-21.	0.7	10
147	Intraobserver Repeatability and Interobserver Reproducibility of Ellipsoid Zone Measurements in Retinitis Pigmentosa. Translational Vision Science and Technology, 2018, 7, 13.	2.2	10
148	Intraobserver Repeatability and Interobserver Reproducibility of Foveal Cone Density Measurements in CNGA3- and CNGB3-Associated Achromatopsia. Translational Vision Science and Technology, 2020, 9, 37.	2.2	10
149	CNGB3-Achromatopsia Clinical Trial With CNTF: Diminished Rod Pathway Responses With No Evidence of Improvement in Cone Function. Investigative Ophthalmology and Visual Science, 2015, 56, 1505-1505.	3.3	9
150	On the axial location of Gunn's dots. American Journal of Ophthalmology Case Reports, 2020, 19, 100757.	0.7	8
151	The relationship between retinal cone density and cortical magnification in human albinism. Journal of Vision, 2020, 20, 10.	0.3	8
152	Longitudinal Assessment of Remnant Foveal Cone Structure in a Case Series of Early Macular Telangiectasia Type 2. Translational Vision Science and Technology, 2020, 9, 27.	2.2	8
153	Optical Coherence Tomography Artifacts Are Associated With Adaptive Optics Scanning Light Ophthalmoscopy Success in Achromatopsia. Translational Vision Science and Technology, 2021, 10, 11.	2.2	8
154	Outer Segment Length in Different Best Disease Genotypesâ€"Reply. JAMA Ophthalmology, 2014, 132, 1153.	2.5	7
155	Assessing photoreceptor structure in patients with traumatic head injury. BMJ Open Ophthalmology, 2018, 3, e000104.	1.6	7
156	Preservation of the Foveal Avascular Zone in Achromatopsia Despite the Absence of a Fully Formed Pit. , 2020, 61, 52.		7
157	Electroretinogram of the Cone-Dominant Thirteen-Lined Ground Squirrel during Euthermia and Hibernation in Comparison with the Rod-Dominant Brown Norway Rat. , 2020, 61, 6.		7
158	Color vision. Handbook of Clinical Neurology / Edited By P J Vinken and G W Bruyn, 2021, 178, 131-153.	1.8	7
159	Visual Function and Cortical Organization in Carriers of Blue Cone Monochromacy. PLoS ONE, 2013, 8, e57956.	2.5	7
160	Photoreceptor disruption and vision loss associated with central serous retinopathy. American Journal of Ophthalmology Case Reports, 2017, 8, 74-77.	0.7	6
161	Assessing Retinal Structure in Patients with Parkinson Disease. Journal of Neurology & Neurophysiology, 2019, 10, .	0.1	6
162	Axial Length Distributions in Patients With Genetically Confirmed Inherited Retinal Diseases. , 2022, 63, 15.		6

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163	Noninvasive Imaging of Cone Ablation and Regeneration in Zebrafish. Translational Vision Science and Technology, 2020, 9, 18.	2.2	5
164	Examining Whether AOSLO-Based Foveal Cone Metrics in Achromatopsia and Albinism Are Representative of Foveal Cone Structure. Translational Vision Science and Technology, 2021, 10, 22.	2.2	5
165	Automated image processing pipeline for adaptive optics scanning light ophthalmoscopy. Biomedical Optics Express, 2021, 12, 3142.	2.9	5
166	Comparison of Cone Mosaic Metrics From Images Acquired With the SPECTRALIS High Magnification Module and Adaptive Optics Scanning Light Ophthalmoscopy. Translational Vision Science and Technology, 2022, 11, 19.	2.2	5
167	Normality of colour vision in a compound heterozygous female carrying protan and deutan defects. Australasian journal of optometry, The, 2009, 92, 356-361.	1.3	4
168	Repeatability and Reproducibility of In Vivo Cone Density Measurements in the Adult Zebrafish Retina. Advances in Experimental Medicine and Biology, 2018, 1074, 151-156.	1.6	4
169	Aberrant visual population receptive fields in human albinism. Journal of Vision, 2021, 21, 19.	0.3	4
170	Comparing Retinal Structure in Patients with Achromatopsia and Blue Cone Monochromacy Using OCT. Ophthalmology Science, 2021, 1, 100047.	2.5	4
171	Retinal alterations in patients with Lafora disease. American Journal of Ophthalmology Case Reports, 2021, 23, 101146.	0.7	4
172	An analytical model of the influence of cone sensitivity and numerosity on the Rayleigh match. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2016, 33, A228.	1.5	3
173	INTRAOPERATIVE IMAGING OF RETAINED PERFLUOROCARBON LIQUID USING SPECTRAL DOMAIN OPTICAL COHERENCE TOMOGRAPHY. Retinal Cases and Brief Reports, 2017, Publish Ahead of Print, 381-384.	0.6	3
174	Cone photoreceptor reflectance variation in the northern tree shrew and thirteen-lined ground squirrel. Experimental Biology and Medicine, 2021, 246, 2192-2201.	2.4	3
175	Long-term retinal imaging of a case of suspected congenital rubella infection. American Journal of Ophthalmology Case Reports, 2022, 25, 101241.	0.7	3
176	Testing hypotheses about visual pigments underlying deutan color vision. Color Research and Application, 2001, 26, S106-S111.	1.6	2
177	Author Response: Relationship Between Foveal Cone Specialization and Pit Morphology in Albinism. , 2014, 55, 5923.		2
178	En Face Optical Coherence Tomography of Outer Retinal Discontinuity and Fan-Shaped Serous Macular Detachment in Diabetic Macular Edema. JAMA Ophthalmology, 2015, 133, 961.	2.5	2
179	Interocular symmetry, intraobserver repeatability, and interobserver reliability of cone density measurements in the 13-lined ground squirrel. PLoS ONE, 2019, 14, e0223110.	2.5	2
180	Interocular asymmetry of foveal avascular zone morphology and parafoveal capillary density in sickle cell retinopathy. PLoS ONE, 2020, 15, e0234151.	2.5	2

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