Robert J Zawadzki

List of Publications by Year
in descending order

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207	7,453	53794	62596
papers	citations	45 h-index	80 g-index

214	214	214	4599
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Adaptive-optics optical coherence tomography for high-resolution and high-speed 3D retinal in vivo imaging. Optics Express, 2005, 13, 8532.	3.4	477
2	Real-time assessment of retinal blood flow with ultrafast acquisition by color Doppler Fourier domain optical coherence tomography. Optics Express, 2003, 11, 3116.	3.4	472
3	High-speed volumetric imaging of cone photoreceptors with adaptive optics spectral-domain optical coherence tomography. Optics Express, 2006, 14, 4380.	3.4	257
4	Phase-Variance Optical Coherence Tomography. Ophthalmology, 2014, 121, 180-187.	5.2	238
5	Ultrahigh-resolution optical coherence tomography with monochromatic and chromatic aberration correction. Optics Express, 2008, 16, 8126.	3.4	221
6	In vivo volumetric imaging of human retinal circulation with phase-variance optical coherence tomography. Biomedical Optics Express, 2011, 2, 1504.	2.9	218
7	Volumetric microvascular imaging of human retina using optical coherence tomography with a novel motion contrast technique. Optics Express, 2009, 17, 22190.	3.4	198
8	Optical imaging of the chorioretinal vasculature in the living human eye. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 14354-14359.	7.1	189
9	Visual Insignificance of the Foveal Pit. JAMA Ophthalmology, 2008, 126, 907.	2.4	187
10	Clinical Application of Rapid Serial Fourier-Domain Optical Coherence Tomography for Macular Imaging. Ophthalmology, 2006, 113, 1425-1431.	5.2	170
11	Review of adaptive optics OCT (AO-OCT): principles and applications for retinal imaging [Invited]. Biomedical Optics Express, 2017, 8, 2536.	2.9	142
12	The Cellular Origins of the Outer Retinal Bands in Optical Coherence Tomography Images. Investigative Ophthalmology and Visual Science, 2014, 55, 7904-7918.	3.3	141
13	Intravitreal Autologous Bone Marrow CD34+ Cell Therapy for Ischemic and Degenerative Retinal Disorders: Preliminary Phase 1 Clinical Trial Findings. Investigative Ophthalmology and Visual Science, 2015, 56, 81-89.	3.3	141
14	Numerical dispersion compensation for Partial Coherence Interferometry and Optical Coherence Tomography. Optics Express, 2001, 9, 610.	3.4	122
15	Comparison of amplitude-decorrelation, speckle-variance and phase-variance OCT angiography methods for imaging the human retina and choroid. Biomedical Optics Express, 2016, 7, 911.	2.9	122
16	A Review of Adaptive Optics Optical Coherence Tomography: Technical Advances, Scientific Applications, and the Future. , 2016, 57, OCT51.		121
17	Adaptive optics-optical coherence tomography: optimizing visualization of microscopic retinal structures in three dimensions. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2007, 24, 1373.	1.5	120
18	Simultaneous imaging of human cone mosaic with adaptive optics enhanced scanning laser ophthalmoscopy and high-speed transversal scanning optical coherence tomography. Optics Letters, 2008, 33, 22.	3.3	119

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19	Integrated adaptive optics optical coherence tomography and adaptive optics scanning laser ophthalmoscope system for simultaneous cellular resolution in vivo retinal imaging. Biomedical Optics Express, 2011, 2, 1674.	2.9	110
20	In vivo optophysiology reveals that G-protein activation triggers osmotic swelling and increased light scattering of rod photoreceptors. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E2937-E2946.	7.1	106
21	Evidence of outer retinal changes in glaucoma patients as revealed by ultrahigh-resolution in vivo retinal imaging. British Journal of Ophthalmology, 2011, 95, 131-141.	3.9	103
22	Cellular resolution volumetric in vivo retinal imaging with adaptive opticsâ€“optical coherence tomography. Optics Express, 2009, 17, 4084.	3.4	100
23	Noninvasive Imaging of the Foveal Avascular Zone with High-Speed, Phase-Variance Optical Coherence Tomography. , 2012, 53, 85.		97
24	Wavefront sensorless adaptive optics optical coherence tomography for in vivo retinal imaging in mice. Biomedical Optics Express, 2014, 5, 547.	2.9	91
25	Advances in bone marrow stem cell therapy for retinal dysfunction. Progress in Retinal and Eye Research, 2017, 56, 148-165.	15.5	89
26	High-resolution Fourier-Domain Optical Coherence Tomography and Microperimetric Findings After Macula-off Retinal Detachment Repair. Ophthalmology, 2008, 115, 1923-1929.e1.	5.2	88
27	Protective Effect of Intravitreal Administration of Exosomes Derived from Mesenchymal Stem Cells on Retinal Ischemia. Current Eye Research, 2017, 42, 1358-1367.	1.5	81
28	Changes in Cellular Structures Revealed by Ultra-high Resolution Retinal Imaging in Optic Neuropathies. , 2008, 49, 2103.		73
29	Segmentation of Three-dimensional Retinal Image Data. IEEE Transactions on Visualization and Computer Graphics, 2007, 13, 1719-1726.	4.4	72
30	Wavefront correction and high-resolution in vivo OCT imaging with an objective integrated multi-actuator adaptive lens. Optics Express, 2015, 23, 21931.	3.4	72
31	Functional retinal imaging using adaptive optics swept-source OCT at 16â€‰â€‰MHz. Optica, 2019, 6, 300.	9.3	72
32	Retinal Morphological Changes of Patients With X-linked Retinoschisis Evaluated by Fourier-Domain Optical Coherence Tomography. JAMA Ophthalmology, 2008, 126, 807.	2.4	64
33	In vivowide-field multispectral scanning laser ophthalmoscopyâ€“optical coherence tomography mouse retinal imager: longitudinal imaging of ganglion cells, microglia, and MÃ¼ller glia, and mapping of the mouse retinal and choroidal vasculature. Journal of Biomedical Optics, 2015, 20, 126005.	2.6	64
34	Outer retinal abnormalities associated with inner retinal pathology in nonglaucomatous and glaucomatous optic neuropathies. Eye, 2011, 25, 279-289.	2.1	62
35	New Directions in Ophthalmic Optical Coherence Tomography. Optometry and Vision Science, 2012, 89, 524-542.	1.2	62
36	Dispersion compensation for optical coherence tomography depth-scan signals by a numerical technique. Optics Communications, 2002, 204, 67-74.	2.1	60

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37	Optoretinogram: optical measurement of human cone and rod photoreceptor responses to light. Optics Letters, 2020, 45, 4658.	3.3	60
38	Multimodal Assessment of Microscopic Morphology and Retinal Function in Patients With Geographic Atrophy. , 2013, 54, 4372.		59
39	Adaptation of a support vector machine algorithm for segmentation and visualization of retinal structures in volumetric optical coherence tomography data sets. Journal of Biomedical Optics, 2007, 12, 041206.	2.6	57
40	In vivo imaging of human photoreceptor mosaic with wavefront sensorless adaptive optics optical coherence tomography. Biomedical Optics Express, 2015, 6, 580.	2.9	57
41	HIGH RESOLUTION FOURIER-DOMAIN OPTICAL COHERENCE TOMOGRAPHY OF RETINAL ANGIOMATOUS PROLIFERATION. Retina, 2007, 27, 915-925.	1.7	56
42	Detailed analysis of retinal function and morphology in a patient with autosomal recessive bestrophinopathy (ARB). Documenta Ophthalmologica, 2009, 118, 239-246.	2.2	54
43	Improved visualization of outer retinal morphology with aberration cancelling reflective optical design for adaptive optics - optical coherence tomography. Biomedical Optics Express, 2013, 4, 2508.	2.9	53
44	Adaptive-optics SLO imaging combined with widefield OCT and SLO enables precise 3D localization of fluorescent cells in the mouse retina. Biomedical Optics Express, 2015, 6, 2191.	2.9	53
45	Adaptive optics optical coherence tomography forin vivomouse retinal imaging. Journal of Biomedical Optics, 2013, 18, 056007.	2.6	52
46	Towards standardizing retinal optical coherence tomography angiography: a review. Light: Science and Applications, 2022, 11, 63.	16.6	52
47	Wavefront sensorless adaptive optics fluorescence biomicroscope for in vivo retinal imaging in mice. Biomedical Optics Express, 2016, 7, 1.	2.9	51
48	An efficient retinal blood vessel segmentation in eye fundus images by using optimized top-hat and homomorphic filtering. Computer Methods and Programs in Biomedicine, 2021, 201, 105949.	4.7	51
49	Retinal morphology in patients with BBS1 and BBS10 related Bardetâ€“Biedl Syndrome evaluated by Fourier-domain optical coherence tomography. Vision Research, 2008, 48, 392-399.	1.4	49
50	Combining adaptive optics with optical coherence tomography: unveiling the cellular structure of the human retinain vivo. Expert Review of Ophthalmology, 2007, 2, 1019-1035.	0.6	47
51	Monocyte infiltration rather than microglia proliferation dominates the early immune response to rapid photoreceptor degeneration. Journal of Neuroinflammation, 2018, 15, 344.	7.2	46
52	Directional optical coherence tomography reveals melanin concentration-dependent scattering properties of retinal pigment epithelium. Journal of Biomedical Optics, 2019, 24, 1.	2.6	46
53	Wavefront sensorless modal deformable mirror correction in adaptive optics: optical coherence tomography. Optics Letters, 2013, 38, 4801.	3.3	40
54	In vivo multimodal retinal imaging of disease-related pigmentary changes in retinal pigment epithelium. Scientific Reports, 2021, 11, 16252.	3.3	40

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55	Lens-based wavefront sensorless adaptive optics swept source OCT. Scientific Reports, 2016, 6, 27620.	3.3	39
56	Megahertz-rate optical coherence tomography angiography improves the contrast of the choriocapillaris and choroid in human retinal imaging. Biomedical Optics Express, 2019, 10, 50.	2.9	39
57	Sequential Targeting in Crosslinking Nanotheranostics for Tackling the Multibarriers of Brain Tumors. Advanced Materials, 2020, 32, e1903759.	21.0	39
58	Optical coherence tomography and Raman spectroscopy of the exâ€vivo retina. Journal of Biophotonics, 2009, 2, 398-406.	2.3	38
59	Fourier-domain optical coherence tomography of eyes with idiopathic epiretinal membrane: correlation between macular morphology and visual function. Eye, 2011, 25, 775-783.	2.1	37
60	Rapid light-induced activation of retinal microglia in mice lacking Arrestin-1. Vision Research, 2014, 102, 71-79.	1.4	37
61	The Properties of Outer Retinal Band Three Investigated With Adaptive-Optics Optical Coherence Tomography. , 2017, 58, 4559.		36
62	TheAtoh7remote enhancer provides transcriptional robustness during retinal ganglion cell development. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 21690-21700.	7.1	36
63	Fourier-Domain Optical Coherence Tomography and Adaptive Optics Reveal Nerve Fiber Layer Loss and Photoreceptor Changes in a Patient With Optic Nerve Drusen. Journal of Neuro-Ophthalmology, 2008, 28, 120-125.	0.8	34
64	Intravitreal Administration of Human Bone Marrow CD34+ Stem Cells in a Murine Model of Retinal Degeneration. , 2016, 57, 4125.		34
65	High-resolution retinal imaging in young children using a handheld scanner and Fourier-domain optical coherence tomography. Journal of AAPOS, 2009, 13, 72-74.e1.	0.3	32
66	Error budget analysis for an Adaptive Optics Optical Coherence Tomography System. Optics Express, 2009, 17, 13768.	3.4	30
67	Improving visual outcomes by preserving outer retina morphology in eyes with resolved pseudophakic cystoid macular edema. Journal of Cataract and Refractive Surgery, 2014, 40, 626-631.	1.5	30
68	Loss of cone function without degeneration in a novel Gnat2 knock-out mouse. Experimental Eye Research, 2018, 171, 111-118.	2.6	30
69	Real-time spectral domain Doppler optical coherence tomography and investigation of human retinal vessel autoregulation. Journal of Biomedical Optics, 2007, 12, 041214.	2.6	29
70	The Photosensitivity of Rhodopsin Bleaching and Light-Induced Increases of Fundus Reflectance in Mice Measured In Vivo With Scanning Laser Ophthalmoscopy. , 2016, 57, 3650.		29
71	FIVE-YEAR FOLLOW-UP OF MACULAR MORPHOLOGIC CHANGES AFTER RHEGMATOGENOUS RETINAL DETACHMENT REPAIR. Retina, 2013, 33, 2049-2058.	1.7	27
72	Effect of a contact lens on mouse retinal in vivo imaging: Effective focal length changes and monochromatic aberrations. Experimental Eye Research, 2018, 172, 86-93.	2.6	27

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73	Staging of Macular Telangiectasia: Power-Doppler Optical Coherence Tomography and Macular Pigment Optical Density. , 2013, 54, 4459.		25
74	Coherence-Gated Sensorless Adaptive Optics Multiphoton Retinal Imaging. Scientific Reports, 2016, 6, 32223.	3.3	25
75	Intraframe motion correction for raster-scanned adaptive optics images using strip-based cross-correlation lag biases. PLoS ONE, 2018, 13, e0206052.	2.5	25
76	Measurement of Diurnal Variation in Rod Outer Segment Length In Vivo in Mice With the OCT Optoretinogram. , 2020, 61, 9.		25
77	Temporal speckle-averaging of optical coherence tomography volumes for in-vivo cellular resolution neuronal and vascular retinal imaging. Neurophotonics, 2019, 6, 1.	3.3	25
78	Correction of motion artifacts and scanning beam distortions in 3D ophthalmic optical coherence tomography imaging. , 2007, , .		24
79	In vivo imaging of human vasculature in the chorioretinal complex using phase-variance contrast method with phase-stabilized 1-Î¼m swept-source optical coherence tomography. Journal of Biomedical Optics, 2014, 19, 1.	2.6	24
80	Effects of intravitreal injection of human CD34+ bone marrow stem cells in a murine model of diabetic retinopathy. Experimental Eye Research, 2020, 190, 107865.	2.6	24
81	High-Resolution Fourier-Domain Optical Coherence Tomography of Choroidal Neovascular Membranes Associated with Age-Related Macular Degeneration. , 2010, 51, 4200.		23
82	VISUAL OUTCOME CORRELATES WITH INNER MACULAR VOLUME IN EYES WITH SURGICALLY CLOSED MACULAR HOLE. Retina, 2012, 32, 2085-2095.	1.7	23
83	Volumetric imaging of rod and cone photoreceptor structure with a combined adaptive optics-optical coherence tomography-scanning laser ophthalmoscope. Journal of Biomedical Optics, 2018, 23, 1.	2.6	23
84	MICROCYSTOID MACULOPATHY ASSOCIATED WITH TAMOXIFEN USE DIAGNOSED BY HIGH-RESOLUTION FOURIER-DOMAIN OPTICAL COHERENCE TOMOGRAPHY. Retinal Cases and Brief Reports, 2009, 3, 33-35.	0.6	22
85	Progress on Developing Adaptive Opticsâ€“Optical Coherence Tomography for In Vivo Retinal Imaging: Monitoring and Correction of Eye Motion Artifacts. IEEE Journal of Selected Topics in Quantum Electronics, 2014, 20, 322-333.	2.9	21
86	Comparison of phase-shifting techniques for in vivo full-range, high-speed Fourier-domain optical coherence tomography. Journal of Biomedical Optics, 2010, 15, 056011.	2.6	20
87	Effect of scanning beam size on the lateral resolution of mouse retinal imaging with SLO. Optics Letters, 2015, 40, 5830.	3.3	20
88	Coextensive synchronized SLO-OCT with adaptive optics for human retinal imaging. Optics Letters, 2019, 44, 4219.	3.3	20
89	Three-dimensional anterior segment imaging in patients with type 1 Boston Keratoprosthesis with switchable full depth range swept source optical coherence tomography. Journal of Biomedical Optics, 2013, 18, 086002.	2.6	19
90	Visualization of Lipofuscin Accumulation in Stargardt Macular Dystrophy by High-Resolution Fourier-Domain Optical Coherence Tomography. JAMA Ophthalmology, 2007, 125, 575.	2.4	18

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91	Retinal microstructure in patients with EFEMP1 retinal dystrophy evaluated by Fourier domain OCT. Eye, 2009, 23, 480-483.	2.1	18
92	Phase-Variance Optical Coherence Tomographic Angiography Imaging of Choroidal Perfusion Changes Associated With Acute Posterior Multifocal Placoid Pigment Epitheliopathy. JAMA Ophthalmology, 2016, 134, 943.	2.5	18
93	Rapid monocyte infiltration following retinal detachment is dependent on non-canonical IL6 signaling through gp130. Journal of Neuroinflammation, 2017, 14, 121.	7.2	18
94	Aperture phase modulation with adaptive optics: a novel approach for speckle reduction and structure extraction in optical coherence tomography. Biomedical Optics Express, 2019, 10, 552.	2.9	17
95	Kilohertz retinal FF-SS-OCT and flood imaging with hardware-based adaptive optics. Biomedical Optics Express, 2020, 11, 5995.	2.9	17
96	TEN-YEAR FOLLOW-UP OF EYES TREATED WITH STEREOTACTIC FRACTIONATED EXTERNAL BEAM RADIATION FOR NEOVASCULAR AGE-RELATED MACULAR DEGENERATION. Retina, 2011, 31, 1303-1315.	1.7	16
97	In Situ Morphologic and Spectral Characterization of Retinal Pigment Epithelium Organelles in Mice Using Multicolor Confocal Fluorescence Imaging. , 2020, 61, 1.		16
98	Adaptive optics in the mouse eye: wavefront sensing based vs image-guided aberration correction. Biomedical Optics Express, 2019, 10, 4757.	2.9	15
99	Multiscale Hessian filtering for enhancement of OCT angiography images. , 2019, , .		14
100	Novel window for cancer nanotheranostics: non-invasive ocular assessments of tumor growth and nanotherapeutic treatment efficacy in vivo. Biomedical Optics Express, 2019, 10, 151.	2.9	13
101	Author Response: Outer Retinal Bands. , 2015, 56, 2507.		12
102	CRISPR-based VEGF suppression using paired guide RNAs for treatment of choroidal neovascularization. Molecular Therapy - Nucleic Acids, 2022, 28, 613-622.	5.1	12
103	Complex conjugate artifact-free adaptive optics optical coherence tomography of in vivo human optic nerve head. Journal of Biomedical Optics, 2012, 17, 1.	2.6	10
104	Visible light OCT improves imaging through a highly scattering retinal pigment epithelial wall. Optics Letters, 2020, 45, 5945.	3.3	10
105	Three-dimensional ophthalmic optical coherence tomography with a refraction correction algorithm. , 2003, , .		9
106	In vivo volumetric depth-resolved vasculature imaging of human limbus and sclera with 1 Î¼m swept source phase-variance optical coherence angiography. Journal of Optics (United Kingdom), 2015, 17, 065301.	2.2	9
107	Extraction of phase-based optoretinograms (ORG) from serial B-scans acquired over tens of seconds by mouse retinal raster scanning OCT system. Biomedical Optics Express, 2021, 12, 7849.	2.9	9
108	Volumetric data analysis enabled spatially resolved optoretinogram to measure the functional signals in the living retina. Journal of Biophotonics, 2022, 15, e202100252.	2.3	9

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109	New developments in eye models with retina tissue phantoms for ophthalmic optical coherence tomography. Proceedings of SPIE, 2012, , .	0.8	8
110	Polarization properties of retinal blood vessel walls measured with polarization sensitive optical coherence tomography. Biomedical Optics Express, 2021, 12, 4340.	2.9	8
111	FINE RETINAL STRIAE ASSOCIATED WITH EPIRETINAL MEMBRANE VISUALIZED USING ADAPTIVE OPTICS. Retinal Cases and Brief Reports, 2009, 3, 233-23.	0.6	7
112	Toward building an anatomically correct solid eye model with volumetric representation of retinal morphology. Proceedings of SPIE, 2010, , .	0.8	7
113	Correction of eye-motion artifacts in AO-OCT data sets. Proceedings of SPIE, 2011, , .	0.8	7
114	Optical Coherence Tomography Findings of Exophytic Retinal Capillary Hemangiomas of the Posterior Pole. Ophthalmic Surgery, Lasers and Imaging, 2010, , 1-5.	0.5	7
115	3D OCT imaging in clinical settings: toward quantitative measurements of retinal structures. , 2006, , .		6
116	Improved representation of retinal data acquired with volumetric Fd-OCT: co-registration, visualization, and reconstruction of a large field of view. , 2008, , .		6
117	High-Resolution Fourier-Domain Optical Coherence Tomography Findings in Vitelliform Detachment Associated with Basal Laminar Drusen. Retina, 2011, 31, 812-814.	1.7	6
118	THE DOSE-DEPENDENT MACULAR THICKNESS CHANGES ASSESSED BY FD-OCT IN PATIENTS WITH RETINITIS PIGMENTOSA TREATED WITH CILIARY NEUROTROPHIC FACTOR. Retina, 2014, 34, 1384-1390.	1.7	6
119	Microstructural Abnormalities Revealed by High Resolution Imaging Systems in Central Macular Arteriovenous Malformation. Ophthalmic Surgery, Lasers and Imaging, 2010, , 1-4.	0.5	6
120	Retinal imaging with a combined adaptive optics/optical coherence tomography and adaptive optics/scanning laser ophthalmoscopy system. , 2010, , .		5
121	Evaluation of state-of-the-art imaging systems forin vivomonitoring of retinal structure in mice: current capabilities and limitations. , 2014, , .		5
122	A Novel Reporter Mouse Uncovers Endogenous Brn3b Expression. International Journal of Molecular Sciences, 2019, 20, 2903.	4.1	5
123	Simultaneous directional full-field OCT using path-length and carrier multiplexing. Optics Express, 2021, 29, 32179.	3.4	5
124	Detection of pigment epithelial detachment vascularization in age-related macular degeneration using phase-variance OCT angiography. Clinical Ophthalmology, 2015, 9, 1299.	1.8	4
125	Retinal AO OCT. , 2015, , 1849-1920.		4
126	Glucose dispersion measurement using white-light LCI. , 2003, 4956, 348.		3

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127	Exposure time dependence of image quality in high-speed retinal in vivo Fourier domain OCT. , 2005, , .		3
128	Adaptive optics ophthalmologic systems using dual deformable mirrors. , 2007, , .		3
129	Development of quantitative diagnostic observables for age-related macular degeneration using Spectral Domain OCT. , 2007, , .		3
130	Application of a new high-speed magnetic deformable mirror for in-vivo retinal imaging. Proceedings of SPIE, 2011, , .	0.8	3
131	Evaluation of OCT for quantitative in-vivo measurements of changes in neural tissue scattering in longitudinal studies of retinal degeneration in mice. Proceedings of SPIE, 2014, , .	0.8	3
132	<title>New dispersion compensation technique for Partial Coherence Interferometry (PCI) and Optical Coherence Tomography (OCT)</title>. , 2001, 4431, 12.		2
133	A microstructural retinal analysis of membrano-proliferative glomerulonephritis type II. British Journal of Ophthalmology, 2008, 92, 1150-1151.	3.9	2
134	Combined adaptive optics: optical coherence tomography and adaptive optics: scanning laser ophthalmoscopy system for retinal imaging. , 2009, , .		2
135	Adaptive optics: optical coherence tomography system for in-vivo imaging of the mouse retina. Proceedings of SPIE, 2012, , .	0.8	2
136	Clinical Applications of High Resolution In-Vivo Retinal Imaging. Journal of Ophthalmology, 2013, 2013, 1-2.	1.3	2
137	Macular pigment and macular volume in eyes of patients with cystic fibrosis. Free Radical Research, 2014, 48, 740-748.	3.3	2
138	Multispectral scanning laser ophthalmoscopy combined with optical coherence tomography for simultaneousin vivomouse retinal imaging. Proceedings of SPIE, 2015, , .	0.8	2
139	Performance of a combined optical coherence tomography and scanning laser ophthalmoscope with adaptive optics for human retinal imaging applications. Proceedings of SPIE, 2015, , .	0.8	2
140	En faceprojection imaging of the human choroidal layers with tracking SLO and swept source OCT angiography methods. , 2015, , .		2
141	New Developments in Murine Imaging for Assessing Photoreceptor Degeneration In Vivo. Advances in Experimental Medicine and Biology, 2016, 854, 269-275.	1.6	2
142	Investigating the functional response of human cones and rods with a combined adaptive optics SLO-OCT system. , 2020, , .		2
143	Investigation of the effect of directional (off-axis) illumination on the reflectivity of retina layers in mice using swept-source optical coherence tomography. , 2018, , .		2
144	Adaptive optics-optical coherence tomography for in vivo retinal imaging: comparative analysis of two wavefront correctors. , 2006, 6079, 38.		1

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145	Application of adaptive optics: optical coherence tomography for in vivo imaging of microscopic structures in the retina and optic nerve head. , 2007, , .		1
146	Ultrahigh-resolution adaptive optics - optical coherence tomography: toward isotropic 3 Î¼m resolution for in vivo retinal imaging. , 2007, , .		1
147	Comparison of real-time visualization of volumetric OCT data sets by CPU-slicing and GPU-ray casting methods. Proceedings of SPIE, 2009, , .	0.8	1
148	MACULOPATHY DIAGNOSED WITH HIGH-RESOLUTION FOURIER-DOMAIN OPTICAL COHERENCE TOMOGRAPHY IN EYES WITH PREVIOUSLY UNEXPLAINED VISUAL LOSS. Retinal Cases and Brief Reports, 2010, 4, 233-239.	0.6	1
149	Introduction: Feature Issue on Cellular Imaging of the Retina. Biomedical Optics Express, 2011, 2, 1778.	2.9	1
150	Visualization of human retinal micro-capillaries with phase contrast high-speed optical coherence tomography. , 2011, , .		1
151	In-vivo imaging of inner retinal cellular morphology with adaptive optics - optical coherence tomography: challenges and possible solutions. Proceedings of SPIE, 2012, , .	0.8	1
152	Reflective afocal adaptive optics: optical coherence tomography retinal imaging system. , 2013, , .		1
153	Development of a corneal tissue phantom for anterior chamber optical coherence tomography (AC-OCT). Proceedings of SPIE, 2013, , .	0.8	1
154	AO-OCT for in vivo mouse retinal imaging: Application of adaptive lens in wavefornt sensorless aberration correction. , 2014, , .		1
155	Visualization of chorioretinal vasculature in mice in vivo using a combined OCT/SLO imaging system. , 2016, , .		1
156	Two deformable mirror adaptive optics system for in vivo retinal imaging with optical coherence tomography. , 2006, , .		1
157	Adaptive-optics optical coherence tomography for high-resolution and high-speed in vivo retinal imaging. , 2005, , .		0
158	Rapid volumetric imaging of the human retina in vivo using a low-cost spectral domain optical coherence tomography system. , 2005, , .		0
159	Adaptive optics - optical coherence tomography for in vivo retinal imaging: effects of spectral bandwidth on image quality. , 2006, , .		0
160	Motion-free volumetric retinal imaging with adaptive optics spectral-domain optical coherence tomography. , 2006, 6138, 613802.		0
161	Performance of a MEMS-based AO-OCT system. Proceedings of SPIE, 2008, , .	0.8	0
162	Compact MEMS-based adaptive optics: optical coherence tomography for clinical use. , 2008, , .		0

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163	Challenges and possibilities for developing adaptive optics: ultra-high resolution optical coherence tomography for clinical in vivo retinal imaging. Proceedings of SPIE, 2008, , .	0.8	0
164	Ultra-high resolution adaptive optics: optical coherence tomography for in vivo imaging of healthy and diseased retinal structures. Proceedings of SPIE, 2008, , .	0.8	0
165	Optical coherence tomography and Raman spectroscopy of the retina. , 2009, , .		0
166	Performance of a MEMS-based AO-OCT system using Fourier reconstruction. , 2009, , .		0
167	Evaluation of complex conjugate artifact removal methods used in spectrometer-based Fourier-domain optical coherence tomography systems: a comparative study. , 2010, , .		0
168	The effect of collimator lenses on the performance of an optical coherence tomography system. Proceedings of SPIE, 2011, , .	0.8	0
169	AO-OCT with reference arm phase shifting for complex conjugate artifact-free imaging of in vivo retinal structures. , 2011, , .		0
170	Visualization of human retinal capillary networks: a comparison of intensity, speckle-variance and phase-variance optical coherence tomography. Proceedings of SPIE, 2012, , .	0.8	0
171	Photoreceptor Imaging. Ophthalmology, 2012, 119, 430-431.	5.2	0
172	Ultrahigh-speed ultrahigh-resolution adaptive optics: optical coherence tomography system for in-vivo small animal retinal imaging. Proceedings of SPIE, 2013, , .	0.8	0
173	Visualization of human retinal and choroidal vascular networks with phase-variance optical coherence tomography. , 2013, , .		0
174	Application of full range swept source optical coherence tomography for imaging of the anterior eye segment in patients with type I Boston Keratoprosthesis. Proceedings of SPIE, 2013, , .	0.8	0
175	Spotlight Summary: Quantitative Fundus Autofluorescence and A2E Increase With Aging in Wild-Type and â€œStargardtâ€•Mice. , 2013, 54, 2991.		0
176	Publisherâ€™s Note: Three-dimensional anterior segment imaging in patients with type 1 Boston Keratoprosthesis with switchable full depth range swept source optical coherence tomography. Journal of Biomedical Optics, 2013, 18, 089802.	2.6	0
177	Improvedin vivoimaging of human blood circulation in the chorioretinal complex using phase variance method with new phase stabilized 1 Î¼m swept-source optical coherence tomography (pv-SSOCT). , 2014, , .		0
178	Depth Resolved Aberration Correction with Wavefront Sensorless Adaptive Optics Optical Coherence Tomography. , 2015, , .		0
179	Comparison of a novel adaptive lens with deformable mirrors and its application in high-resolution in-vivo OCT imaging. , 2015, , .		0
180	Automatic optimization high-speed high-resolution OCT retinal imaging at 1Î¼m. , 2015, , .		0

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181	Progress on developing wavefront sensorless adaptive optics optical coherence tomography for in vivo retinal imaging in mice. Proceedings of SPIE, 2015, , .	0.8	0
182	Two photon imaging of mouse retina with sensorless adaptive optics. , 2016, , .		0
183	Fluorescent scanning laser ophthalmoscopy for cellular resolution in vivo mouse retinal imaging: benefits and drawbacks of implementing adaptive optics. , 2016, , .		0
184	Coherence gated wavefront sensorless adaptive optics for two photon excited fluorescence retinal imaging (Conference Presentation). , 2016, , .		0
185	Wavefront sensorless approaches to adaptive optics for in vivo fluorescence imaging of mouse retina. , 2016, , .		0
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