

Ravi S Jonnal

List of Publications by Year in descending order

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49
papers

2,938
citations

304743

22
h-index

395702

33
g-index

54
all docs

54
docs citations

54
times ranked

1682
citing authors

#	ARTICLE	IF	CITATIONS
1	Adaptive optics parallel spectral domain optical coherence tomography for imaging the living retina. Optics Express, 2005, 13, 4792.	3.4	312
2	High-speed volumetric imaging of cone photoreceptors with adaptive optics spectral-domain optical coherence tomography. Optics Express, 2006, 14, 4380.	3.4	257
3	In vivo functional imaging of human cone photoreceptors. Optics Express, 2007, 15, 16141.	3.4	186
4	Measuring retinal contributions to the optical Stiles-Crawford effect with optical coherence tomography. Optics Express, 2008, 16, 6486.	3.4	170
5	Imaging outer segment renewal in living human cone photoreceptors. Optics Express, 2010, 18, 5257.	3.4	162
6	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
7	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
8	Adaptive optics flood-illumination camera for high speed retinal imaging. Optics Express, 2006, 14, 4552.	3.4	136
9	A Review of Adaptive Optics Optical Coherence Tomography: Technical Advances, Scientific Applications, and the Future. , 2016, 57, OCT51.		121
10	Imaging cone photoreceptors in three dimensions and in time using ultrahigh resolution optical coherence tomography with adaptive optics. Biomedical Optics Express, 2011, 2, 748.	2.9	119
11	Vision science and adaptive optics, the state of the field. Vision Research, 2017, 132, 3-33.	1.4	115
12	Volumetric retinal imaging with ultrahigh-resolution spectral-domain optical coherence tomography and adaptive optics using two broadband light sources. Optics Express, 2009, 17, 4095.	3.4	97
13	Phase-sensitive imaging of the outer retina using optical coherence tomography and adaptive optics. Biomedical Optics Express, 2012, 3, 104.	2.9	95
14	Imaging retinal nerve fiber bundles using optical coherence tomography with adaptive optics. Vision Research, 2011, 51, 1835-1844.	1.4	90
15	Photoreceptor disc shedding in the living human eye. Biomedical Optics Express, 2016, 7, 4554.	2.9	89
16	Retinal imaging with polarization-sensitive optical coherence tomography and adaptive optics. Optics Express, 2009, 17, 21634.	3.4	74
17	Imaging Retinal Capillaries Using Ultrahigh-Resolution Optical Coherence Tomography and Adaptive Optics. , 2011, 52, 6292.		73
18	Functional retinal imaging using adaptive optics swept-source OCT at 16â€‰MHz. Optica, 2019, 6, 300.	9.3	72

#	ARTICLE	IF	CITATIONS
19	In vivo functional imaging of human cone photoreceptors. Optics Express, 2007, 15, 16141-60.	3.4	69
20	Adaptive optics optical coherence tomography with dynamic retinal tracking. Biomedical Optics Express, 2014, 5, 2262.	2.9	60
21	Optoretinogram: optical measurement of human cone and rod photoreceptor responses to light. Optics Letters, 2020, 45, 4658.	3.3	60
22	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
23	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
24	The Properties of Outer Retinal Band Three Investigated With Adaptive-Optics Optical Coherence Tomography. , 2017, 58, 4559.		36
25	Measuring directionality of the retinal reflection with a Shack-Hartmann wavefront sensor. Optics Express, 2009, 17, 23085.	3.4	27
26	Intraframe motion correction for raster-scanned adaptive optics images using strip-based cross-correlation lag biases. PLoS ONE, 2018, 13, e0206052.	2.5	25
27	Toward a clinical optoretinogram: a review of noninvasive, optical tests of retinal neural function. Annals of Translational Medicine, 2021, 9, 1270-1270.	1.7	23
28	Coextensive synchronized SLO-OCT with adaptive optics for human retinal imaging. Optics Letters, 2019, 44, 4219.	3.3	20
29	Kilohertz retinal FF-SS-OCT and flood imaging with hardware-based adaptive optics. Biomedical Optics Express, 2020, 11, 5995.	2.9	17
30	No evidence for loss of short-wavelength sensitive cone photoreceptors in normal ageing of the primate retina. Scientific Reports, 2017, 7, 46346.	3.3	16
31	Author Response: Outer Retinal Bands. , 2015, 56, 2507.		12
32	Visible light OCT improves imaging through a highly scattering retinal pigment epithelial wall. Optics Letters, 2020, 45, 5945.	3.3	10
33	Simultaneous directional full-field OCT using path-length and carrier multiplexing. Optics Express, 2021, 29, 32179.	3.4	5
34	Automated quantification of choriocapillaris anatomical features in ultrahigh-speed optical coherence tomography angiograms. Biomedical Optics Express, 2019, 10, 5337.	2.9	5
35	3D imaging of cone photoreceptors over extended time periods using optical coherence tomography with adaptive optics. Proceedings of SPIE, 2011, , .	0.8	3
36	Investigating the functional response of human cones and rods with a combined adaptive optics SLO-OCT system. , 2020, , .		2

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37	Using directional OCT to analyze photoreceptor visibility over AMD-related drusen. Scientific Reports, 2022, 12, .	3.3	2
38	Does transverse chromatic aberration limit performance of AO-OCT retinal imaging?. Proceedings of SPIE, 2008, , .	0.8	1
39	Imaging retinal nerve fiber bundles at ultrahigh-speed and ultrahigh-resolution using OCT with adaptive optics. , 2010, , .		1
40	Performance of an off-axis ophthalmic adaptive optics system with toroidal mirrors. , 2011, , .		1
41	Indiana University AO-OCT System. , 2005, , 447-476.		0
42	Motion-free volumetric retinal imaging with adaptive optics spectral-domain optical coherence tomography. , 2006, 6138, 613802.		0
43	High-speed adaptive optics functional imaging of cone photoreceptors at a 100 MHz pixel rate. , 2007, , .		0
44	Volumetric imaging of inner retina with adaptive optics spectral-domain optical coherence tomography. , 2007, , .		0
45	Adaptive optics optical coherence tomography for measuring phase and reflectance dynamics of photoreceptors. Proceedings of SPIE, 2012, , .	0.8	0
46	Contributed Session I: Towards clinically friendly optoretinography (ORG) using 100 kHz swept-source OCT without adaptive optics (AO). Journal of Vision, 2022, 22, 4.	0.3	0
47	Progress in measurements and interpretation of light-evoked retinal function using OCT based optoretinography (ORG). , 2021, , .		0
48	Extraction of phase-based optoretinograms (ORG) from serial B-scans acquired by clinical-grade raster scanning OCT system. , 2022, , .		0
49	Proto-clinical optoretinography using common, low-cost optical coherence tomography equipment. , 2022, , .		0