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List of Publications by Year
in descending order

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41 papers	947 citations	516710 16 h-index	501196 28 g-index
42 all docs	42 docs citations	42 times ranked	655 citing authors

#	Article	IF	Citations
1	Optical quality evaluation for active afocal systems. , 2021, , .		1
2	SimVis simulations of multifocal IOL designs based on public-literature data. , 2021, , .		1
3	Optical and Visual Quality With Physical and Visually Simulated Presbyopic Multifocal Contact Lenses. Translational Vision Science and Technology, 2020, 9, 20.	2.2	18
4	Full-field flicker evoked changes in parafoveal retinal blood flow. Scientific Reports, 2020, 10, 16051.	3.3	10
5	VioBio lab adaptive optics: technology and applications by women vision scientists. Ophthalmic and Physiological Optics, 2020, 40, 75-87.	2.0	12
6	Cones in ageing and harsh environments: the neural economy hypothesis. Ophthalmic and Physiological Optics, 2020, 40, 88-116.	2.0	7
7	Tunable lenses: dynamic characterization and fine-tuned control for high-speed applications. Optics Express, 2019, 27, 2085.	3.4	25
8	Effect of Crystalline Lens Aberrations on Adaptive Optics Simulation of Intraocular Lenses. Journal of Refractive Surgery, 2019, 35, 126-131.	2.3	12
9	Flicker evoked changes in small retinal vessels. Journal of Vision, 2019, 19, 21.	0.3	4
10	Visual Simulators: from understanding of vision mechanisms to applications in clinic. Journal of Vision, 2019, 19, 28.	0.3	0
11	Enhanced retinal vasculature imaging with a rapidly configurable aperture. Biomedical Optics Express, 2018, 9, 1323.	2.9	29
12	High speed visual stimuli generator to estimate the minimum presentation time required for an orientation discrimination task. Biomedical Optics Express, 2018, 9, 2640.	2.9	1
13	Experimental validations of a tunable-lens-based visual demonstrator of multifocal corrections. Biomedical Optics Express, 2018, 9, 6302.	2.9	15
14	On-bench validations of tunable lens based multifocal visual simulations. , 2018, , .		0
15	Adaptive-Optics based visual simulators: from on-bench to wearable devices. , 2018, , .		0
16	Robust adaptive optics systems for vision science. , 2018, , .		1
17	The organization of the cone photoreceptor mosaic measured in the living human retina. Vision Research, 2017, 132, 34-44.	1.4	36
18	Alterations to the Foveal Cone Mosaic of Diabetic Patients. , 2017, 58, 3395.		14

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19	Adaptive optics retinal imaging with automatic detection of the pupil and its boundary in real time using Shackâ€“Hartmann images. Applied Optics, 2017, 56, 6748.	1.8	11
20	Design of a Steerable, Configurable Detection, Adaptive Optics Scanning Laser Ophthalmoscope with Integrated Fixation and Stimulation. , 2017, , .		0
21	Perceived image quality with simulated segmented bifocal corrections. Biomedical Optics Express, 2016, 7, 4388.	2.9	14
22	Rapid high resolution imaging with a dual-channel scanning technique. Optics Letters, 2016, 41, 1881.	3.3	43
23	Impact of astigmatism and high-order aberrations on subjective best focus. Journal of Vision, 2015, 15, 4.	0.3	8
24	Single neural code for blur in subjects with different interocular optical blur orientation. Journal of Vision, 2015, 15, 15.	0.3	3
25	A cyclopean neural mechanism compensating for optical differences between the eyes. Current Biology, 2015, 25, R188-R189.	3.9	22
26	Short-Term Neural Adaptation to Simultaneous Bifocal Images. PLoS ONE, 2014, 9, e93089.	2.5	30
27	Astigmatism Impact on Visual Performance. Optometry and Vision Science, 2013, 90, 1430-1442.	1.2	39
28	Adaptation to interocular differences in blur. Journal of Vision, 2013, 13, 19-19.	0.3	17
29	Experimental Simulation of Simultaneous Vision. , 2013, 54, 415.		36
30	Using Pattern Classification to Measure Adaptation to the Orientation of High Order Aberrations. PLoS ONE, 2013, 8, e70856.	2.5	17
31	Dependence of subjective image focus on the magnitude and pattern of high order aberrations. Journal of Vision, 2012, 12, 4-4.	0.3	13
32	Perceptual Adaptation to the Correction of Natural Astigmatism. PLoS ONE, 2012, 7, e46361.	2.5	47
33	Vision Is Adapted to the Natural Level of Blur Present in the Retinal Image. PLoS ONE, 2011, 6, e27031.	2.5	61
34	Adapting to blur produced by ocular high-order aberrations. Journal of Vision, 2011, 11, 21-21.	0.3	43
35	Adaptation to astigmatic blur. Journal of Vision, 2010, 10, 22-22.	0.3	80
36	Visual performance with real-life tasks under Adaptive-Optics ocular aberration correction. Journal of Vision, 2010, 10, 19-19.	0.3	50

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37	Accommodative lag and fluctuations when optical aberrations are manipulated. Journal of Vision, 2009, 9, 4-4.	0.3	96
38	Minor Influence of Myopic Laser In Situ Keratomileusis on the Posterior Corneal Surface. , 2009, 50, 4146.		51
39	Experimental Test of Simulated Retinal Images Using Adaptive Optics. , 2009, , .		3
40	Influence of adaptive-optics ocular aberration correction on visual acuity at different luminances and contrast polarities. Journal of Vision, 2008, 8, 1-1.	0.3	75
41	DEVELOPMENT, CALIBRATION AND PERFORMANCE OF AN ELECTROMAGNETIC MIRROR BASED ADAPTIVE OPTICS SYSTEM FOR VISUAL OPTICS â€“ Oral Paper. , 2008, , .		2