Chen Xin

List of Publications by Year in Descending Order

48 papers	774 citations	12 h-index	27 g-index
53 ext. papers	1,004 ext. citations	3.9 avg, IF	4.05 L-index

#	Paper	IF	Citations
48	Consensus Recommendation for Mouse Models of Ocular Hypertension to Study Aqueous Humor Outflow and Its Mechanisms. **2022**, 63, 12		1
47	Trabecular Meshwork Motion Profile from Pulsatile Pressure Transients: A New Platform to Simulate Transitory Responses in Humans and Nonhuman Primates. *Applied Sciences (Switzerland)*, **2022**, 12, 11	2.6	2
46	Refractive Lens Exchange Surgery in Early-Onset High Myopia Patients With Partial Cataract.. *Frontiers in Medicine*, **2022**, 9, 739197	4.9	0
45	Valve-Like Outflow System Behavior With Motion Slowing in Glaucoma Eyes: Findings Using a Minimally Invasive Glaucoma Surgery-MIGS-Like Platform and Optical Coherence Tomography Imaging.. *Frontiers in Medicine*, **2022**, 9, 815866	4.9	1
44	Pulsatile Trabecular Meshwork Motion: An Indicator of Intraocular Pressure Control in Primary Open-Angle Glaucoma. *Journal of Clinical Medicine*, **2022**, 11, 2696	5.1	0
43	Outcomes of gonioscopy-assisted transluminal trabeculotomy in juvenile-onset primary open-angle glaucoma. *Eye*, **2021**, 35, 2848-2854	4.4	4
42	Impact of ocular magnification on retinal and choriocapillaris blood flow quantification in myopia with swept-source optical coherence tomography angiography. *Quantitative Imaging in Medicine and Surgery*, **2021**, 11, 948-956	3.6	7
41	A prospective study of intraocular pressure spike and failure after gonioscopy-assisted transluminal trabeculotomy in juvenile open angle glaucoma. *American Journal of Ophthalmology*, **2021**,	4.9	2
40	Aqueous outflow regulation - 21st century concepts. *Progress in Retinal and Eye Research*, **2021**, 83, 100921	17.5	13
39	Effects of Schlemm\'s Canal Expansion: Biomechanics and MIGS Implications. *Life*, **2021**, 11,	3	4
38	iPSC-Derived Trabecular Meshwork Cells Stimulate Endogenous TM Cell Division Through Gap Junction in a Mouse Model of Glaucoma **2021**, 62, 28		2
37	Ab Interno vs. Ab Externo Microcatheter-Assisted Circumferential Trabeculotomy in Treating Patients With Primary Open-Angle Glaucoma.. *Frontiers in Medicine*, **2021**, 8, 795172	4.9	
36	Disease-related and age-related changes of anterior chamber angle structures in patients with primary congenital glaucoma: An in vivo high-frequency ultrasound biomicroscopy-based study. *PLoS ONE*, **2020**, 15, e0227602	3.7	7
35	Macular vessel density versus ganglion cell complex thickness for detection of early primary open-angle glaucoma. *BMC Ophthalmology*, **2020**, 20, 17	2.3	8
34	Ab interno vs ab externo microcatheter-assisted trabeculotomy for primary congenital glaucoma with clear cornea. *Clinical and Experimental Ophthalmology*, **2020**, 48, 1201-1209	2.4	4
33	Intermediate outcomes of ab externo circumferential trabeculotomy and canaloplasty in POAG patients with prior incisional glaucoma surgery. *BMC Ophthalmology*, **2020**, 20, 389	2.3	2
32	Minimally Invasive Glaucoma Surgery: What Do We Know? Where Should We Go?. *Translational Vision Science and Technology*, **2020**, 9, 15	3.3	3

31	The Relationship Between Nailfold Microcirculation and Retinal Microcirculation in Healthy Subjects. *Frontiers in Physiology*, **2020**, 11, 880	4.6	2
30	Optical coherence tomography-based deep learning algorithm for quantification of the location of the intraocular lens. *Annals of Translational Medicine*, **2020**, 8, 872	3.2	5
29	The phosphorylation of CHK1 at Ser345 regulates the phenotypic switching of vascular smooth muscle cells both in vitro and in vivo. *Atherosclerosis*, **2020**, 313, 50-59	3.1	
28	Determinants of maximum cup depth in non-glaucoma and primary open-angle glaucoma subjects: a population-based study. *Eye*, **2020**, 34, 892-900	4.4	1
27	Disease-related and age-related changes of anterior chamber angle structures in patients with primary congenital glaucoma: An in vivo high-frequency ultrasound biomicroscopy-based study **2020**, 15, e0227602		
26	Disease-related and age-related changes of anterior chamber angle structures in patients with primary congenital glaucoma: An in vivo high-frequency ultrasound biomicroscopy-based study **2020**, 15, e0227602		
25	Disease-related and age-related changes of anterior chamber angle structures in patients with primary congenital glaucoma: An in vivo high-frequency ultrasound biomicroscopy-based study **2020**, 15, e0227602		
24	Disease-related and age-related changes of anterior chamber angle structures in patients with primary congenital glaucoma: An in vivo high-frequency ultrasound biomicroscopy-based study **2020**, 15, e0227602		
23	Disease-related and age-related changes of anterior chamber angle structures in patients with primary congenital glaucoma: An in vivo high-frequency ultrasound biomicroscopy-based study **2020**, 15, e0227602		
22	Disease-related and age-related changes of anterior chamber angle structures in patients with primary congenital glaucoma: An in vivo high-frequency ultrasound biomicroscopy-based study **2020**, 15, e0227602		
21	Path Planning for Surgery Robot with Bidirectional Continuous Tree Search and Neural Network **2019**,		3
20	Association Between Arterial Blood Gas Variation and Intraocular Pressure in Healthy Subjects Exposed to Acute Short-Term Hypobaric Hypoxia. *Translational Vision Science and Technology*, **2019**, 8, 22	3.3	2
19	Mechanism of the reconstruction of aqueous outflow drainage. *Science China Life Sciences*, **2018**, 61, 534-540	8.5	10
18	Quantification of Pulse-Dependent Trabecular Meshwork Motion in Normal Humans Using Phase-Sensitive OCT **2018**, 59, 3675-3681		19
17	Correlation Between Trabeculodysgenesis Assessed by Ultrasound Biomicroscopy and Surgical Outcomes in Primary Congenital Glaucoma. *American Journal of Ophthalmology*, **2018**, 196, 57-64	4.9	7
16	Repeatability and Reproducibility of Quantitative Assessment of the Retinal Microvasculature Using Optical Coherence Tomography Angiography Based on Optical Microangiography. *Biomedical and Environmental Sciences*, **2018**, 31, 407-412	1.1	12
15	Imaging collector channel entrance with a new intraocular micro-probe swept-source optical coherence tomography. *Acta Ophthalmologica*, **2017**, 95, 602-607	3.7	5
14	Peripapillary Retinal Nerve Fiber Layer Vascular Microcirculation in Eyes With Glaucoma and Single-Hemifield Visual Field Loss. *JAMA Ophthalmology*, **2017**, 135, 461-468	3.9	67

13	Aqueous outflow regulation: Optical coherence tomography implicates pressure-dependent tissue motion. *Experimental Eye Research*, **2017**, 158, 171-186	3.7	47
12	Estimating Human Trabecular Meshwork Stiffness by Numerical Modeling and Advanced OCT Imaging **2017**, 58, 4809-4817		42
11	Repeatability and reproducibility of optic nerve head perfusion measurements using optical coherence tomography angiography. *Journal of Biomedical Optics*, **2016**, 21, 65002	3.5	40
10	Optic Disc Perfusion in Primary Open Angle and Normal Tension Glaucoma Eyes Using Optical Coherence Tomography-Based Microangiography. *PLoS ONE*, **2016**, 11, e0154691	3.7	89
9	Optic nerve head perfusion in normal eyes and eyes with glaucoma using optical coherence tomography-based microangiography. *Quantitative Imaging in Medicine and Surgery*, **2016**, 6, 125-33	3.6	51
8	OCT Study of Mechanical Properties Associated with Trabecular Meshwork and Collector Channel Motion in Human Eyes. *PLoS ONE*, **2016**, 11, e0162048	3.7	25
7	Peripapillary Retinal Nerve Fiber Layer Vascular Microcirculation in Glaucoma Using Optical Coherence Tomography-Based Microangiography **2016**, 57, OCT475-85		89
6	Modified Canaloplasty: A New, Effective, and Safe Option for Glaucoma Patients With a Disrupted Schlemm Canal Wall. *Journal of Glaucoma*, **2016**, 25, 798-801	2.1	9
5	Quantitative assessment of the retinal microvasculature using optical coherence tomography angiography. *Journal of Biomedical Optics*, **2016**, 21, 66008	3.5	155
4	One-year interim comparison of canaloplasty in primary open-angle glaucoma following failed filtering surgery with primary canaloplasty. *British Journal of Ophthalmology*, **2016**, 100, 1692-1696	5.5	7
3	Changes of visual field and optic nerve fiber layer in patients with OSAS. *Sleep and Breathing*, **2015**, 19, 129-34	3.1	22
2	ASSA13-10-21 Effect of Bleeding on Hospitalised Mortality in Acute Myocardial Infarction Patients Aged 80 and Over. *Heart*, **2013**, 99, A48.3-A48	5.1	
1	Percutaneous coronary interventions in Chinese mainland 2008. *International Journal of Cardiology*, **2010**, 145, 314-315	3.2	2