

# Xiaohang Wu

## List of Publications by Year in descending order

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Version: 2024-02-01

68  
papers

2,261  
citations

304368

22  
h-index

243296

44  
g-index

70  
all docs

70  
docs citations

70  
times ranked

2652  
citing authors

#	ARTICLE	IF	CITATIONS
1	Comparison of macular structural and vascular changes in neuromyelitis optica spectrum disorder and primary open angle glaucoma: a cross-sectional study. <i>British Journal of Ophthalmology</i> , 2021, 105, 354-360.	2.1	7
2	Effectiveness of an Ophthalmic Hospital-Based Virtual Service during the COVID-19 Pandemic. <i>Ophthalmology</i> , 2021, 128, 942-945.	2.5	25
3	Extracellular vesicles promote epithelial-to-mesenchymal transition of lens epithelial cells under oxidative stress. <i>Experimental Cell Research</i> , 2021, 398, 112362.	1.2	17
4	The value and implementation of routine ophthalmic examination in the era of HAART. <i>EClinicalMedicine</i> , 2021, 31, 100646.	3.2	4
5	The associations of population mobility in HIV disease severity and mortality rate in China. <i>Annals of Translational Medicine</i> , 2021, 9, 315-315.	0.7	2
6	Hypertension affects the treatment of wet age-related macular degeneration. <i>Acta Ophthalmologica</i> , 2021, 99, 871-876.	0.6	3
7	Automatic classification of heterogeneous slit-illumination images using an ensemble of cost-sensitive convolutional neural networks. <i>Annals of Translational Medicine</i> , 2021, 9, 550-550.	0.7	8
8	Real-world big data demonstrates prevalence trends and developmental patterns of myopia in China: a retrospective, multicenter study. <i>Annals of Translational Medicine</i> , 2021, 9, 554-554.	0.7	5
9	Anterior Segment and Others in Teleophthalmology: Past, Present, and Future. <i>Asia-Pacific Journal of Ophthalmology</i> , 2021, 10, 234-243.	1.3	6
10	Improving the Generalizability of Infantile Cataracts Detection via Deep Learning-Based Lens Partition Strategy and Multicenter Datasets. <i>Frontiers in Medicine</i> , 2021, 8, 664023.	1.2	6
11	Automatically Diagnosing Disk Bulge and Disk Herniation With Lumbar Magnetic Resonance Images by Using Deep Convolutional Neural Networks: Method Development Study. <i>JMIR Medical Informatics</i> , 2021, 9, e14755.	1.3	12
12	The associations of high academic performance with childhood ametropia prevalence and myopia development in China. <i>Annals of Translational Medicine</i> , 2021, 9, 745-745.	0.7	9
13	Application of Comprehensive Artificial intelligence Retinal Expert (CARE) system: a national real-world evidence study. <i>The Lancet Digital Health</i> , 2021, 3, e486-e495.	5.9	65
14	A human-in-the-loop deep learning paradigm for synergic visual evaluation in children. <i>Neural Networks</i> , 2020, 122, 163-173.	3.3	12
15	Deep learning for detecting retinal detachment and discerning macular status using ultra-widefield fundus images. <i>Communications Biology</i> , 2020, 3, 15.	2.0	48
16	Implementation of artificial intelligence in medicine: Status analysis and development suggestions. <i>Artificial Intelligence in Medicine</i> , 2020, 102, 101780.	3.8	53
17	A practical model for the identification of congenital cataracts using machine learning. <i>EBioMedicine</i> , 2020, 51, 102621.	2.7	28
18	Optical Coherence Tomography Angiography Reveals Distinct Retinal Structural and Microvascular Abnormalities in Cerebrovascular Disease. <i>Frontiers in Neuroscience</i> , 2020, 14, 588515.	1.4	12

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19	Attitudes towards medical artificial intelligence talent cultivation: an online survey study. <i>Annals of Translational Medicine</i> , 2020, 8, 708-708.	0.7	14
20	Artificial intelligence manages congenital cataract with individualized prediction and telehealth computing. <i>Npj Digital Medicine</i> , 2020, 3, 112.	5.7	22
21	Developmental characteristics of the cytokine profile in aqueous humor and its relationship with the inflammatory response in children. <i>Annals of Translational Medicine</i> , 2020, 8, 1542-1542.	0.7	3
22	Deep learning from "passive feeding" to "selective eating" of real-world data. <i>Npj Digital Medicine</i> , 2020, 3, 143.	5.7	17
23	Dense anatomical annotation of slit-lamp images improves the performance of deep learning for the diagnosis of ophthalmic disorders. <i>Nature Biomedical Engineering</i> , 2020, 4, 767-777.	11.6	42
24	The combination of brain-computer interfaces and artificial intelligence: applications and challenges. <i>Annals of Translational Medicine</i> , 2020, 8, 712-712.	0.7	31
25	Analysis of Choroidal Thickness in Children with Congenital Aniridia. <i>Current Eye Research</i> , 2020, 45, 1292-1297.	0.7	1
26	Deep learning-based automated diagnosis of fungal keratitis with in vivo confocal microscopy images. <i>Annals of Translational Medicine</i> , 2020, 8, 706-706.	0.7	31
27	An artificial intelligent platform for live cell identification and the detection of cross-contamination. <i>Annals of Translational Medicine</i> , 2020, 8, 697-697.	0.7	6
28	Artificial intelligence-tutoring problem-based learning in ophthalmology clerkship. <i>Annals of Translational Medicine</i> , 2020, 8, 700-700.	0.7	14
29	Blockchain: chaining digital health to a new era. <i>Annals of Translational Medicine</i> , 2020, 8, 696-696.	0.7	4
30	Application of artificial intelligence in anterior segment ophthalmic diseases: diversity and standardization. <i>Annals of Translational Medicine</i> , 2020, 8, 714-714.	0.7	21
31	Development and Evaluation of a Deep Learning System for Screening Retinal Hemorrhage Based on Ultra-Widefield Fundus Images. <i>Translational Vision Science and Technology</i> , 2020, 9, 3.	1.1	22
32	Artificial intelligence deciphers codes for color and odor perceptions based on large-scale chemoinformatic data. <i>GigaScience</i> , 2020, 9, .	3.3	11
33	Screening Candidates for Refractive Surgery With Corneal Tomographic-Based Deep Learning. <i>JAMA Ophthalmology</i> , 2020, 138, 519.	1.4	51
34	The Metabolic Reprogramming of Frem2 Mutant Mice Embryos in Cryptophthalmos Development. <i>Frontiers in Cell and Developmental Biology</i> , 2020, 8, 625492.	1.8	2
35	Modified organized ophthalmology pre-internship in China. <i>Annals of Translational Medicine</i> , 2020, 8, 1426.	0.7	0
36	Discrimination of the behavioural dynamics of visually impaired infants via deep learning. <i>Nature Biomedical Engineering</i> , 2019, 3, 860-869.	11.6	13

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37	Universal artificial intelligence platform for collaborative management of cataracts. <i>British Journal of Ophthalmology</i> , 2019, 103, 1553-1560.	2.1	87
38	Factors influencing subspecialty choice among medical students: a systematic review and meta-analysis. <i>BMJ Open</i> , 2019, 9, e022097.	0.8	92
39	Diagnostic Efficacy and Therapeutic Decision-making Capacity of an Artificial Intelligence Platform for Childhood Cataracts in Eye Clinics: A Multicentre Randomized Controlled Trial. <i>EClinicalMedicine</i> , 2019, 9, 52-59.	3.2	117
40	Loss-of-function mutations in <i>FREM2</i> disrupt eye morphogenesis. <i>Experimental Eye Research</i> , 2019, 181, 302-312.	1.2	18
41	Meta-analysis of accuracy of intraocular lens power calculation formulas in short eyes. <i>Clinical and Experimental Ophthalmology</i> , 2018, 46, 356-363.	1.3	52
42	Clinical characteristics of young adult cataract patients: a 10-year retrospective study of the Zhongshan Ophthalmic Center. <i>BMJ Open</i> , 2018, 8, e020234.	0.8	1
43	Prevalence and Determinants Associated With Spectacle-Wear Compliance in Aphakic Infants. <i>Translational Vision Science and Technology</i> , 2018, 7, 5.	1.1	6
44	Prediction of myopia development among Chinese school-aged children using refraction data from electronic medical records: A retrospective, multicentre machine learning study. <i>PLoS Medicine</i> , 2018, 15, e1002674.	3.9	93
45	Predicting the progression of ophthalmic disease based on slit-lamp images using a deep temporal sequence network. <i>PLoS ONE</i> , 2018, 13, e0201142.	1.1	18
46	Impairments of Visual Function and Ocular Structure in Patients With Unilateral Posterior Lens Opacity. <i>Translational Vision Science and Technology</i> , 2018, 7, 9.	1.1	2
47	An Interpretable and Expandable Deep Learning Diagnostic System for Multiple Ocular Diseases: Qualitative Study. <i>Journal of Medical Internet Research</i> , 2018, 20, e11144.	2.1	41
48	Preoperative profile of inflammatory factors in aqueous humor correlates with postoperative inflammatory response in patients with congenital cataract. <i>Molecular Vision</i> , 2018, 24, 414-424.	1.1	10
49	An artificial intelligence platform for the multihospital collaborative management of congenital cataracts. <i>Nature Biomedical Engineering</i> , 2017, 1, .	11.6	234
50	Comparative analysis of image classification methods for automatic diagnosis of ophthalmic images. <i>Scientific Reports</i> , 2017, 7, 41545.	1.6	41
51	The Prevalence of Depression and Depressive Symptoms among Eye Disease Patients: A Systematic Review and Meta-analysis. <i>Scientific Reports</i> , 2017, 7, 46453.	1.6	104
52	Dynamic response to initial stage blindness in visual system development. <i>Clinical Science</i> , 2017, 131, 1515-1527.	1.8	5
53	Prevalence of depression and depressive symptoms among outpatients: a systematic review and meta-analysis. <i>BMJ Open</i> , 2017, 7, e017173.	0.8	278
54	Construction and implications of structural equation modeling network for pediatric cataract: a data mining research of rare diseases. <i>BMC Ophthalmology</i> , 2017, 17, 74.	0.6	5

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55	Localization and diagnosis framework for pediatric cataracts based on slit-lamp images using deep features of a convolutional neural network. PLoS ONE, 2017, 12, e0168606.	1.1	72
56	Height, weight and body mass index of children with congenital cataracts before surgical treatment. BMC Ophthalmology, 2017, 17, 119.	0.6	1
57	Proteomics analysis and proteogenomic characterization of different physiopathological human lenses. BMC Ophthalmology, 2017, 17, 253.	0.6	14
58	Automatic diagnosis of imbalanced ophthalmic images using a cost-sensitive deep convolutional neural network. BioMedical Engineering OnLine, 2017, 16, 132.	1.3	36
59	Association of OGG1 and MTHFR polymorphisms with age-related cataract: A systematic review and meta-analysis. PLoS ONE, 2017, 12, e0172092.	1.1	6
60	A Novel Congenital Cataract Category System Based on Lens Opacity Locations and Relevant Anterior Segment Characteristics. , 2016, 57, 6389.		19
61	Distribution of Axial Length before Cataract Surgery in Chinese Pediatric Patients. Scientific Reports, 2016, 6, 23862.	1.6	16
62	Prevalence of Corneal Astigmatism and Anterior Segmental Biometry Characteristics Before Surgery in Chinese Congenital Cataract Patients. Scientific Reports, 2016, 6, 22092.	1.6	17
63	Patient participation in free cataract surgery: a cross-sectional study of the low-income elderly in urban China. BMJ Open, 2016, 6, e011061.	0.8	9
64	Prevalence and epidemiological characteristics of congenital cataract: a systematic review and meta-analysis. Scientific Reports, 2016, 6, 28564.	1.6	127
65	Visual Outcome and Related Factors in Bilateral Total Congenital Cataract Patients: A Prospective Cohort Study. Scientific Reports, 2016, 6, 31307.	1.6	10
66	Capsular Outcomes Differ with Capsulorhexis Sizes after Pediatric Cataract Surgery: A Randomized Controlled Trial. Scientific Reports, 2015, 5, 16227.	1.6	21
67	10-Year Overview of the Hospital-Based Prevalence and Treatment of Congenital Cataracts: The CCPMOH Experience. PLoS ONE, 2015, 10, e0142298.	1.1	26
68	Intervention Strategies for Improving Patient Adherence to Follow-Up in the Era of Mobile Information Technology: A Systematic Review and Meta-Analysis. PLoS ONE, 2014, 9, e104266.	1.1	56