Xiaohang Wu

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/6892387/publications.pdf

Version: 2024-02-01

68	2,261	304368 22	243296 44
papers	citations	h-index	g-index

70	70	70	2652
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Prevalence of depression and depressive symptoms among outpatients: a systematic review and meta-analysis. BMJ Open, 2017, 7, e017173.	0.8	278
2	An artificial intelligence platform for the multihospital collaborative management of congenital cataracts. Nature Biomedical Engineering, 2017, 1, .	11.6	234
3	Prevalence and epidemiological characteristics of congenital cataract: a systematic review and meta-analysis. Scientific Reports, 2016, 6, 28564.	1.6	127
4	Diagnostic Efficacy and Therapeutic Decision-making Capacity of an Artificial Intelligence Platform for Childhood Cataracts in Eye Clinics: A Multicentre Randomized Controlled Trial. EClinicalMedicine, 2019, 9, 52-59.	3.2	117
5	The Prevalence of Depression and Depressive Symptoms among Eye Disease Patients: A Systematic Review and Meta-analysis. Scientific Reports, 2017, 7, 46453.	1.6	104
6	Prediction of myopia development among Chinese school-aged children using refraction data from electronic medical records: A retrospective, multicentre machine learning study. PLoS Medicine, 2018, 15, e1002674.	3.9	93
7	Factors influencing subspecialty choice among medical students: a systematic review and meta-analysis. BMJ Open, 2019, 9, e022097.	0.8	92
8	Universal artificial intelligence platform for collaborative management of cataracts. British Journal of Ophthalmology, 2019, 103, 1553-1560.	2.1	87
9	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
10	Application of Comprehensive Artificial intelligence Retinal Expert (CARE) system: a national real-world evidence study. The Lancet Digital Health, 2021, 3, e486-e495.	5.9	65
11	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
12	Implementation of artificial intelligence in medicine: Status analysis and development suggestions. Artificial Intelligence in Medicine, 2020, 102, 101780.	3.8	53
13	Metaâ€analysis of accuracy of intraocular lens power calculation formulas in short eyes. Clinical and Experimental Ophthalmology, 2018, 46, 356-363.	1.3	52
14	Screening Candidates for Refractive Surgery With Corneal Tomographicâ€“Based Deep Learning. JAMA Ophthalmology, 2020, 138, 519.	1.4	51
15	Deep learning for detecting retinal detachment and discerning macular status using ultra-widefield fundus images. Communications Biology, 2020, 3, 15.	2.0	48
16	Dense anatomical annotation of slit-lamp images improves the performance of deep learning for the diagnosis of ophthalmic disorders. Nature Biomedical Engineering, 2020, 4, 767-777.	11.6	42
17	Comparative analysis of image classification methods for automatic diagnosis of ophthalmic images. Scientific Reports, 2017, 7, 41545.	1.6	41
18	An Interpretable and Expandable Deep Learning Diagnostic System for Multiple Ocular Diseases: Qualitative Study. Journal of Medical Internet Research, 2018, 20, e11144.	2.1	41

#	Article	IF	Citations
19	Automatic diagnosis of imbalanced ophthalmic images using a cost-sensitive deep convolutional neural network. BioMedical Engineering OnLine, 2017, 16, 132.	1.3	36
20	The combination of brain-computer interfaces and artificial intelligence: applications and challenges. Annals of Translational Medicine, 2020, 8, 712-712.	0.7	31
21	Deep learning-based automated diagnosis of fungal keratitis with in vivo confocal microscopy images. Annals of Translational Medicine, 2020, 8, 706-706.	0.7	31
22	A practical model for the identification of congenital cataracts using machine learning. EBioMedicine, 2020, 51, 102621.	2.7	28
23	10-Year Overview of the Hospital-Based Prevalence and Treatment of Congenital Cataracts: The CCPMOH Experience. PLoS ONE, 2015, 10, e0142298.	1.1	26
24	Effectiveness of an Ophthalmic Hospital-Based Virtual Service during the COVID-19 Pandemic. Ophthalmology, 2021, 128, 942-945.	2.5	25
25	Artificial intelligence manages congenital cataract with individualized prediction and telehealth computing. Npj Digital Medicine, 2020, 3, 112.	5.7	22
26	Development and Evaluation of a Deep Learning System for Screening Retinal Hemorrhage Based on Ultra-Widefield Fundus Images. Translational Vision Science and Technology, 2020, 9, 3.	1.1	22
27	Capsular Outcomes Differ with Capsulorhexis Sizes after Pediatric Cataract Surgery: A Randomized Controlled Trial. Scientific Reports, 2015, 5, 16227.	1.6	21
28	Application of artificial intelligence in anterior segment ophthalmic diseases: diversity and standardization. Annals of Translational Medicine, 2020, 8, 714-714.	0.7	21
29	A Novel Congenital Cataract Category System Based on Lens Opacity Locations and Relevant Anterior Segment Characteristics. , 2016, 57, 6389.		19
30	Predicting the progression of ophthalmic disease based on slit-lamp images using a deep temporal sequence network. PLoS ONE, 2018, 13, e0201142.	1.1	18
31	Loss-of-function mutations in FREM2 disrupt eye morphogenesis. Experimental Eye Research, 2019, 181, 302-312.	1.2	18
32	Prevalence of Corneal Astigmatism and Anterior Segmental Biometry Characteristics Before Surgery in Chinese Congenital Cataract Patients. Scientific Reports, 2016, 6, 22092.	1.6	17
33	Deep learning from â€œpassive feedingâ€•to â€œselective eatingâ€•of real-world data. Npj Digital Medicine, 2020, 3, 143.	5.7	17
34	Extracellular vesicles promote epithelial-to-mesenchymal transition of lens epithelial cells under oxidative stress. Experimental Cell Research, 2021, 398, 112362.	1.2	17
35	Distribution of Axial Length before Cataract Surgery in Chinese Pediatric Patients. Scientific Reports, 2016, 6, 23862.	1.6	16
36	Proteomics analysis and proteogenomic characterization of different physiopathological human lenses. BMC Ophthalmology, 2017, 17, 253.	0.6	14

#	Article	IF	Citations
37	Attitudes towards medical artificial intelligence talent cultivation: an online survey study. Annals of Translational Medicine, 2020, 8, 708-708.	0.7	14
38	Artificial intelligence-tutoring problem-based learning in ophthalmology clerkship. Annals of Translational Medicine, 2020, 8, 700-700.	0.7	14
39	Discrimination of the behavioural dynamics of visually impaired infants via deep learning. Nature Biomedical Engineering, 2019, 3, 860-869.	11.6	13
40	A human-in-the-loop deep learning paradigm for synergic visual evaluation in children. Neural Networks, 2020, 122, 163-173.	3.3	12
41	Optical Coherence Tomography Angiography Reveals Distinct Retinal Structural and Microvascular Abnormalities in Cerebrovascular Disease. Frontiers in Neuroscience, 2020, 14, 588515.	1.4	12
42	Automatically Diagnosing Disk Bulge and Disk Herniation With Lumbar Magnetic Resonance Images by Using Deep Convolutional Neural Networks: Method Development Study. JMIR Medical Informatics, 2021, 9, e14755.	1.3	12
43	Artificial intelligence deciphers codes for color and odor perceptions based on large-scale chemoinformatic data. GigaScience, 2020, 9, .	3.3	11
44	Visual Outcome and Related Factors in Bilateral Total Congenital Cataract Patients: A Prospective Cohort Study. Scientific Reports, 2016, 6, 31307.	1.6	10
45	Preoperative profile of inflammatory factors in aqueous humor correlates with postoperative inflammatory response in patients with congenital cataract. Molecular Vision, 2018, 24, 414-424.	1.1	10
46	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
47	The associations of high academic performance with childhood ametropia prevalence and myopia development in China. Annals of Translational Medicine, 2021, 9, 745-745.	0.7	9
48	Automatic classification of heterogeneous slit-illumination images using an ensemble of cost-sensitive convolutional neural networks. Annals of Translational Medicine, 2021, 9, 550-550.	0.7	8
49	Comparison of macular structural and vascular changes in neuromyelitis optica spectrum disorder and primary open angle glaucoma: a cross-sectional study. British Journal of Ophthalmology, 2021, 105, 354-360.	2.1	7
50	Prevalence and Determinants Associated With Spectacle-Wear Compliance in Aphakic Infants. Translational Vision Science and Technology, 2018, 7, 5.	1.1	6
51	An artificial intelligent platform for live cell identification and the detection of cross-contamination. Annals of Translational Medicine, 2020, 8, 697-697.	0.7	6
52	Anterior Segment and Others in Teleophthalmology: Past, Present, and Future. Asia-Pacific Journal of Ophthalmology, 2021, 10, 234-243.	1.3	6
53	Improving the Generalizability of Infantile Cataracts Detection via Deep Learning-Based Lens Partition Strategy and Multicenter Datasets. Frontiers in Medicine, 2021, 8, 664023.	1.2	6
54	Association of OGG1 and MTHFR polymorphisms with age-related cataract: A systematic review and meta-analysis. PLoS ONE, 2017, 12, e0172092.	1.1	6

#	Article	IF	Citations
55	Dynamic response to initial stage blindness in visual system development. Clinical Science, 2017, 131, 1515-1527.	1.8	5
56	Construction and implications of structural equation modeling network for pediatric cataract: a data mining research of rare diseases. BMC Ophthalmology, 2017, 17, 74.	0.6	5
57	Real-world big data demonstrates prevalence trends and developmental patterns of myopia in China: a retrospective, multicenter study. Annals of Translational Medicine, 2021, 9, 554-554.	0.7	5
58	Blockchain: chaining digital health to a new era. Annals of Translational Medicine, 2020, 8, 696-696.	0.7	4
59	The value and implementation of routine ophthalmic examination in the era of HAART. EClinicalMedicine, 2021, 31, 100646.	3.2	4
60	Developmental characteristics of the cytokine profile in aqueous humor and its relationship with the inflammatory response in children. Annals of Translational Medicine, 2020, 8, 1542-1542.	0.7	3
61	Hypertension affects the treatment of wet ageâ€related macular degeneration. Acta Ophthalmologica, 2021, 99, 871-876.	0.6	3
62	Impairments of Visual Function and Ocular Structure in Patients With Unilateral Posterior Lens Opacity. Translational Vision Science and Technology, 2018, 7, 9.	1.1	2
63	The Metabolic Reprogramming of Frem2 Mutant Mice Embryos in Cryptophthalmos Development. Frontiers in Cell and Developmental Biology, 2020, 8, 625492.	1.8	2
64	The associations of population mobility in HIV disease severity and mortality rate in China. Annals of Translational Medicine, 2021, 9, 315-315.	0.7	2
65	Height, weight and body mass index of children with congenital cataracts before surgical treatment. BMC Ophthalmology, 2017, 17, 119.	0.6	1
66	Clinical characteristics of young adult cataract patients: a 10-year retrospective study of the Zhongshan Ophthalmic Center. BMJ Open, 2018, 8, e020234.	0.8	1
67	Analysis of Choroidal Thickness in Children with Congenital Aniridia. Current Eye Research, 2020, 45, 1292-1297.	0.7	1
68	Modified organized ophthalmology pre-internship in China. Annals of Translational Medicine, 2020, 8, 1426.	0.7	0