Yi Zhu

List of Publications by Year
in descending order

102 papers	2,666 citations	201575 27 h-index	243529 44 g-index
111 all docs	111 docs citations	111 times ranked	3464 citing authors

#	Article	IF	Citations
1	A blind contourâ€"aware quality model for sonar images. IET Image Processing, 2022, 16, 1017-1026.	1.4	0
2	Spatial Technology Assessment of Green Space Exposure andÂMyopia. Ophthalmology, 2022, 129, 113-117.	2.5	11
3	Automated detection of retinal exudates and drusen in ultra-widefield fundus images based on deep learning. Eye, 2022, 36, 1681-1686.	1.1	19
4	Behavioral Studies in Drosophila Models of Human Diseases. , 2022, , 13-23.		2
5	Development and validation of a deep learning system to screen vision-threatening conditions in high myopia using optical coherence tomography images. British Journal of Ophthalmology, 2022, 106, 633-639.	2.1	36
6	Corneal Biometric Features and Their Association With Axial Length in High Myopia. American Journal of Ophthalmology, 2022, 238, 45-51.	1.7	12
7	Human Nmnat1 Promotes Autophagic Clearance of Amyloid Plaques in a Drosophila Model of Alzheimerâ€™s Disease. Frontiers in Aging Neuroscience, 2022, 14, 852972.	1.7	7
8	Editorial: Computational Medicine in Visual Impairment and Its Related Disorders. Frontiers in Medicine, 2022, 9, 857485.	1.2	0
9	Biallelic mutations in sord are a common cause of potentially treatable genetic neuropathy. Journal of Neurology, Neurosurgery and Psychiatry, 2022, 93, A14.2-A14.	0.9	0
10	Phenylbutyrate modulates polyamine acetylase and ameliorates Snyder-Robinson syndrome in a Drosophila model and patient cells. JCI Insight, 2022, 7, .	2.3	7
11	Study to establish visual acuity norms with Teller Acuity Cards II for infants from southern China. Eye, 2021, 35, 2787-2792.	1.1	2
12	Deep learning for automated glaucomatous optic neuropathy detection from ultra-widefield fundus images. British Journal of Ophthalmology, 2021, 105, 1548-1554.	2.1	29
13	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
14	Effectiveness of an Ophthalmic Hospital-Based Virtual Service during the COVID-19 Pandemic. Ophthalmology, 2021, 128, 942-945.	2.5	25
15	Extracellular vesicles promote epithelial-to-mesenchymal transition of lens epithelial cells under oxidative stress. Experimental Cell Research, 2021, 398, 112362.	1.2	17
16	A new anthraquinone derivative as a near UV and visible light photoinitiator for free-radical, thiolâ€"ene and cationic polymerizations. Polymer Chemistry, 2021, 12, 3299-3306.	1.9	15
17	The value and implementation of routine ophthalmic examination in the era of HAART. EClinicalMedicine, 2021, 31, 100646.	3.2	4
18	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

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19	Associations Between Regional Environment and Cornea-Related Morphology of the Eye in Young Adults: A Large-Scale Multicenter Cross-Sectional Study. , 2021, 62, 35.		6
20	Screening and identifying hepatobiliary diseases through deep learning using ocular images: a prospective, multicentre study. The Lancet Digital Health, 2021, 3, e88-e97.	5.9	50
21	An artificial intelligence platform for the diagnosis and surgical planning of strabismus using corneal light-reflection photos. Annals of Translational Medicine, 2021, 9, 374-374.	0.7	6
22	Characteristics and Risk Factors of Intraocular Lens Tilt and Decentration of Phacoemulsification After Pars Plana Vitrectomy. Translational Vision Science and Technology, 2021, 10, 26.	1.1	7
23	Hypertension affects the treatment of wet age–related macular degeneration. Acta Ophthalmologica, 2021, 99, 871-876.	0.6	3
24	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
25	Phenacyl Phenothiazinium Salt as a New Broad–Wavelength–Absorbing Photoinitiator for Cationic and Free Radical Polymerizations. Angewandte Chemie, 2021, 133, 17054-17058.	1.6	1
26	Phenacyl Phenothiazinium Salt as a New Broad–Wavelength–Absorbing Photoinitiator for Cationic and Free Radical Polymerizations. Angewandte Chemie - International Edition, 2021, 60, 16917-16921.	7.2	33
27	Comparison of Visual Neuroadaptations After Multifocal and Monofocal Intraocular Lens Implantation. Frontiers in Neuroscience, 2021, 15, 648863.	1.4	12
28	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
29	Predicting Central Serous Chorioretinopathy Recurrence Using Machine Learning. Frontiers in Physiology, 2021, 12, 649316.	1.3	3
30	NMNAT promotes glioma growth through regulating post-translational modifications of P53 to inhibit apoptosis. ELife, 2021, 10, .	2.8	13
31	A human-in-the-loop deep learning paradigm for synergic visual evaluation in children. Neural Networks, 2020, 122, 163-173.	3.3	12
32	Deep learning for detecting retinal detachment and discerning macular status using ultra-widefield fundus images. Communications Biology, 2020, 3, 15.	2.0	48
33	Implementation of artificial intelligence in medicine: Status analysis and development suggestions. Artificial Intelligence in Medicine, 2020, 102, 101780.	3.8	53
34	A practical model for the identification of congenital cataracts using machine learning. EBioMedicine, 2020, 51, 102621.	2.7	28
35	The Detrimental Effect of Noisy Visual Input on the Visual Development of Human Infants. IScience, 2020, 23, 100803.	1.9	0
36	Incidence of and Risk Factors for Suspected Glaucoma and Glaucoma After Congenital and Infantile Cataract Surgery: A Longitudinal Study in China. Journal of Glaucoma, 2020, 29, 46-52.	0.8	12

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37	Web Log Analysis in Genealogy System. , 2020, , .		3
38	Optical Coherence Tomography Angiography Reveals Distinct Retinal Structural and Microvascular Abnormalities in Cerebrovascular Disease. Frontiers in Neuroscience, 2020, 14, 588515.	1.4	12
39	Impact of cataract screening integrated into establishment of resident health record on surgical output in a rural area of south China. Annals of Translational Medicine, 2020, 8, 1222-1222.	0.7	2
40	Artificial intelligence manages congenital cataract with individualized prediction and telehealth computing. Npj Digital Medicine, 2020, 3, 112.	5.7	22
41	Exposure to Aerosolized Algal Toxins in South Florida Increases Short- and Long-Term Health Risk in Drosophila Model of Aging. Toxins, 2020, 12, 787.	1.5	13
42	Exploring the growth patterns of medical demand for eye care: a longitudinal hospital-level study over 10 years in China. Annals of Translational Medicine, 2020, 8, 1374-1374.	0.7	7
43	Deep learning from â€œpassive feedingâ€to â€œselective eatingâ€of real-world data. Npj Digital Medicine, 2020, 3, 143.	5.7	17
44	Biallelic mutations in SORD cause a common and potentially treatable hereditary neuropathy with implications for diabetes. Nature Genetics, 2020, 52, 473-481.	9.4	97
45	Accuracy of New Generation Intraocular Lens Calculation Formulas in Vitrectomized Eyes. American Journal of Ophthalmology, 2020, 217, 81-90.	1.7	27
46	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
47	Hybrid Collaborative Recommendation via Dual-Autoencoder. IEEE Access, 2020, 8, 46030-46040.	2.6	13
48	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
49	Automatic identification of myopia based on ocular appearance images using deep learning. Annals of Translational Medicine, 2020, 8, 705-705.	0.7	23
50	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
51	Artificial intelligence deciphers codes for color and odor perceptions based on large-scale chemoinformatic data. GigaScience, 2020, 9, .	3.3	11
52	Integrated redox-active reagents for photoinduced regio- and stereoselective fluorocarboborylation. Nature Communications, 2020, 11, 2572.	5.8	36
53	Nicotinamide mononucleotide adenylyltransferase uses its NAD+ substrate-binding site to chaperone phosphorylated Tau. ELife, 2020, 9, .	2.8	18
54	Bayesian Optimization for Antenna Design via Multi-Point Active Learning. , 2020, , .		6

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55	Discrimination of the behavioural dynamics of visually impaired infants via deep learning. Nature Biomedical Engineering, 2019, 3, 860-869.	11.6	13
56	Nmnat restores neuronal integrity by neutralizing mutant Huntingtin aggregate-induced progressive toxicity. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 19165-19175.	3.3	23
57	Universal artificial intelligence platform for collaborative management of cataracts. British Journal of Ophthalmology, 2019, 103, 1553-1560.	2.1	87
58	MicroRNA miR-1002 Enhances NMNAT-Mediated Stress Response by Modulating Alternative Splicing. IScience, 2019, 19, 1048-1064.	1.9	3
59	Practical pattern of surgical timing of childhood cataract in China: A cross-sectional database study. International Journal of Surgery, 2019, 62, 56-61.	1.1	3
60	Severe biallelic loss-of-function mutations in nicotinamide mononucleotide adenylyltransferase 2 (NMNAT2) in two fetuses with fetal akinesia deformation sequence. Experimental Neurology, 2019, 320, 112961.	2.0	46
61	Factors influencing subspecialty choice among medical students: a systematic review and meta-analysis. BMJ Open, 2019, 9, e022097.	0.8	92
62	Subcellular compartmentalization of NAD+ and its role in cancer: A sereNADe of metabolic melodies. , 2019, 200, 27-41.		53
63	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
64	Loss-of-function mutations in FREM2 disrupt eye morphogenesis. Experimental Eye Research, 2019, 181, 302-312.	1.2	18
65	Development and validation of deep learning algorithms for scoliosis screening using back images. Communications Biology, 2019, 2, 390.	2.0	72
66	Dysfunction of GRAP, encoding the GRB2-related adaptor protein, is linked to sensorineural hearing loss. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 1347-1352.	3.3	15
67	Increased prevalence of parent ratings of ADHD symptoms among children with bilateral congenital cataracts. International Journal of Ophthalmology, 2019, 12, 1323-1329.	0.5	3
68	A deep learning system for identifying lattice degeneration and retinal breaks using ultra-widefield fundus images. Annals of Translational Medicine, 2019, 7, 618-618.	0.7	36
69	Clinical and next-generation sequencing findings in a Chinese family exhibiting severe familial exudative vitreoretinopathy. International Journal of Molecular Medicine, 2018, 41, 773-782.	1.8	7
70	Accuracy of intraocular lens power calculation formulas in long eyes: a systematic review and metaâ€analysis. Clinical and Experimental Ophthalmology, 2018, 46, 738-749.	1.3	51
71	Visual Restoration after Cataract Surgery Promotes Functional and Structural Brain Recovery. EBioMedicine, 2018, 30, 52-61.	2.7	33
72	Generating Underwater Images by GANs and Similarity Measurement. , 2018, , .		3

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73	Two Paired Box 6 mutations identified in Chinese patients with classic congenital aniridia and cataract. Molecular Medicine Reports, 2018, 18, 4439-4445.	1.1	4
74	Nmnat mitigates sensory dysfunction in a <i>Drosophila</i> model of paclitaxel-induced peripheral neuropathy. DMM Disease Models and Mechanisms, 2018, 11, .	1.2	17
75	Quantitative Cell Biology of Neurodegeneration in Drosophila Through Unbiased Analysis of Fluorescently Tagged Proteins Using ImageJ. Journal of Visualized Experiments, 2018, , .	0.2	20
76	Targeted next‐generation sequencing identifies two novel COL2A1 gene mutations in Stickler syndrome with bilateral retinal detachment. International Journal of Molecular Medicine, 2018, 42, 1819-1826.	1.8	3
77	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
78	Improvement of Uveal and Capsular Biocompatibility of Hydrophobic Acrylic Intraocular Lens by Surface Grafting with 2-Methacryloyloxyethyl Phosphorylcholine-Methacrylic Acid Copolymer. Scientific Reports, 2017, 7, 40462.	1.6	20
79	NMNAT: It's an NAD + synthase… It's a chaperone… It's a neuroprotector. Current Opinion in Genetics and Development, 2017, 44, 156-162.	1.5	60
80	C278F mutation in FGFR2 gene causes two different types of syndromic craniosynostosis in two Chinese patients. Molecular Medicine Reports, 2017, 16, 5333-5337.	1.1	6
81	FGFR2 mutations and associated clinical observations in two Chinese patients with Crouzon syndrome. Molecular Medicine Reports, 2017, 16, 5841-5846.	1.1	10
82	Prevalence of depression and depressive symptoms among outpatients: a systematic review and meta-analysis. BMJ Open, 2017, 7, e017173.	0.8	278
83	Two heterozygous mutations identified in one Chinese patient with bilateral macular coloboma. Molecular Medicine Reports, 2017, 16, 2505-2510.	1.1	8
84	Spermine synthase deficiency causes lysosomal dysfunction and oxidative stress in models of Snyder-Robinson syndrome. Nature Communications, 2017, 8, 1257.	5.8	64
85	Comparison between flipped classroom and lecture-based classroom in ophthalmology clerkship. Medical Education Online, 2017, 22, 1395679.	1.1	114
86	Killing two birds with one stone: dual blockade of integrin and FGF signaling through targeting syndecan-4 in postoperative capsular opacification. Cell Death and Disease, 2017, 8, e2920-e2920.	2.7	32
87	Genetic variations in Bestrophin‐1 and associated clinical findings in two Chinese patients with juvenile‐onset and adult‐onset best vitelliform macular dystrophy. Molecular Medicine Reports, 2017, 17, 225-233.	1.1	11
88	Defining Disease, Diagnosis, and Translational Medicine within a Homeostatic Perturbation Paradigm: The National Institutes of Health Undiagnosed Diseases Program Experience. Frontiers in Medicine, 2017, 4, 62.	1.2	23
89	Facing the challenges in ophthalmology clerkship teaching: Is flipped classroom the answer?. PLoS ONE, 2017, 12, e0174829.	1.1	75
90	Bestrophin 1 gene analysis and associated clinical findings in a Chinese patient with Best vitelliform macular dystrophy. Molecular Medicine Reports, 2017, 16, 4751-4755.	1.1	10

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91	Attenuation of polyglutamine-induced toxicity by enhancement of mitochondrial OXPHOS in yeast and fly models of aging. Microbial Cell, 2016, 3, 338-351.	1.4	15
92	Research on designing methods of the secondary system in digital substation. , 2016, , .		2
93	A new virtual relay protection simulation system of substation based on IEC61850 standard. , 2016, , .		0
94	Cataract screening in a rural area of Southern China: a retrospective cohort study. Lancet, The, 2016, 388, S53.	6.3	5
95	Microwave-assisted regeneration of spent activated carbon containing zinc acetate and its application for removal of congo red. Desalination and Water Treatment, 2016, 57, 28496-28511.	1.0	8
96	Sprouty2 Suppresses Epithelial-Mesenchymal Transition of Human Lens Epithelial Cells through Blockade of Smad2 and ERK1/2 Pathways. PLoS ONE, 2016, 11, e0159275.	1.1	28
97	Alternative splicing of Drosophila Nmnat functions as a switch to enhance neuroprotection under stress. Nature Communications, 2015, 6, 10057.	5.8	48
98	Ala344Pro mutation in the FGFR2 gene and related clinical findings in one Chinese family with Crouzon syndrome. Molecular Vision, 2012, 18, 1278-82.	1.1	13
99	PAX6 analysis of two sporadic patients from southern China with classic aniridia. Molecular Vision, 2012, 18, 2190-4.	1.1	14
100	The induction of trehalose and glycerol in Saccharomyces cerevisiae in response to various stresses. Biochemical and Biophysical Research Communications, 2009, 387, 778-783.	1.0	86
101	Fabrication of bovine serum albumin microcapsules by desolvation and destroyable cross-linking. Journal of Materials Chemistry, 2008, 18, 1153.	6.7	42
102	Assembly of Polymeric Micelles into Hollow Microcapsules with Extraordinary Stability against Extreme pH Conditions. Langmuir, 2008, 24, 7810-7816.	1.6	29