Chi D Luu

List of Publications by Year in Descending Order

148 papers	3,711 citations	35 h-index	53 g-index
154 ext. papers	4,462 ext. citations	3.8 avg, IF	5.3 L-index

#	Paper	IF	Citations
148	Therapeutic potential of human umbilical cord-derived mesenchymal stem cells transplantation in rats with optic nerve injury.. *Indian Journal of Ophthalmology*, **2022**, 70, 201-209	1.6	
147	Rescue of photoreceptor with human mesenchyme stem cell and human mesenchyme stem cell expressing erythropoietin in total degeneration of retina animal model.. *Indian Journal of Ophthalmology*, **2022**, 70, 921-929	1.6	
146	Localized Structural and Functional Deficits in a Nonhuman Primate Model of Outer Retinal Atrophy **2021**, 62, 8		0
145	Comparison of Visual Function Tests in Intermediate Age-Related Macular Degeneration. *Translational Vision Science and Technology*, **2021**, 10, 14	3.3	1
144	Subthreshold Nanosecond Laser in Age-Related Macular Degeneration: Observational Extension Study of the LEAD Clinical Trial. *Ophthalmology Retina*, **2021**, 5, 1196-1203	3.8	2
143	USING MICROPERIMETRY AND LOW-LUMINANCE VISUAL ACUITY TO DETECT THE ONSET OF LATE AGE-RELATED MACULAR DEGENERATION: A LEAD Study Report. *Retina*, **2021**, 41, 1094-1101	3.6	2
142	Classifying Retinal Degeneration in Histological Sections Using Deep Learning. *Translational Vision Science and Technology*, **2021**, 10, 9	3.3	0
141	Examining the added value of microperimetry and low luminance deficit for predicting progression in age-related macular degeneration. *British Journal of Ophthalmology*, **2021**, 105, 711-715	5.5	7
140	Characterising the orientation-specific pattern-onset visual evoked potentials in children with bilateral refractive amblyopia and non-amblyopic controls. *Documenta Ophthalmologica*, **2021**, 142, 197-211	2.2	1
139	Human Dental Pulp Stem Cells (DPSCs) Therapy in Rescuing Photoreceptors and Establishing a Sodium Iodate-Induced Retinal Degeneration Rat Model. *Tissue Engineering and Regenerative Medicine*, **2021**, 18, 143-154	4.5	1
138	A Second-Generation (44-Channel) Suprachoroidal Retinal Prosthesis: Interim Clinical Trial Results. *Translational Vision Science and Technology*, **2021**, 10, 12	3.3	3
137	Relationship Between Rod-Mediated Sensitivity, Low-Luminance Visual Acuity, and Night Vision Questionnaire in Age-Related Macular Degeneration. *Translational Vision Science and Technology*, **2020**, 9, 30	3.3	4
136	Oculomotor Responses to Dynamic Stimuli in a 44-Channel Suprachoroidal Retinal Prosthesis. *Translational Vision Science and Technology*, **2020**, 9, 31	3.3	7
135	Association between Patient-Reported Outcomes and Time to Late Age-Related Macular Degeneration in the Laser Intervention in Early Stages of Age-Related Macular Degeneration Study. *Ophthalmology Retina*, **2020**, 4, 881-888	3.8	2
134	Prospective Longitudinal Evaluation of Nascent Geographic Atrophy in Age-Related Macular Degeneration. *Ophthalmology Retina*, **2020**, 4, 568-575	3.8	20
133	Multi-focal electro-retinogram response following sub-threshold nano-second laser intervention in age-related macular degeneration. *Clinical and Experimental Ophthalmology*, **2020**, 48, 938-945	2.4	0
132	In vivo feasibility of epiretinal stimulation using ultrananocrystalline diamond electrodes. *Journal of Neural Engineering*, **2020**, 17, 045014	5	2

131	Validation of an Automated Quantification of Relative Ellipsoid Zone Reflectivity on Spectral Domain-Optical Coherence Tomography Images. *Translational Vision Science and Technology*, **2020**, 9, 17	3.3	3
130	Comparison of CRISPR/Cas Endonucleases for Retinal Gene Editing. *Frontiers in Cellular Neuroscience*, **2020**, 14, 570917	6.1	7
129	New Technologies to Study Functional Genomics of Age-Related Macular Degeneration. *Frontiers in Cell and Developmental Biology*, **2020**, 8, 604220	5.7	4
128	Microperimetry for geographic atrophy secondary to age-related macular degeneration. *Survey of Ophthalmology*, **2019**, 64, 353-364	6.1	14
127	Electrophysiological and Psychophysical Studies of Meridional Anisotropies in Children With and Without Astigmatism **2019**, 60, 1906-1913		8
126	Retinal degeneration rat model: A study on the structural and functional changes in the retina following injection of sodium iodate. *Journal of Photochemistry and Photobiology B: Biology*, **2019**, 196, 111514	6.7	14
125	Longitudinal Assessment of Rod Function in Intermediate Age-Related Macular Degeneration With and Without Reticular Pseudodrusen **2019**, 60, 1511-1518		9
124	Psychosocial assessment of potential retinal prosthesis trial participants. *Australasian journal of optometry, The*, **2019**, 102, 506-512	2.7	4
123	Dental pulp stem cells therapy overcome photoreceptor cell death and protects the retina in a rat model of sodium iodate-induced retinal degeneration. *Journal of Photochemistry and Photobiology B: Biology*, **2019**, 198, 111561	6.7	9
122	Properties of the Impact of Vision Impairment and Night Vision Questionnaires Among People With Intermediate Age-Related Macular Degeneration. *Translational Vision Science and Technology*, **2019**, 8, 3	3.3	8
121	Secondary and Exploratory Outcomes of the Subthreshold Nanosecond Laser Intervention Randomized Trial in Age-Related Macular Degeneration: A LEAD Study Report. *Ophthalmology Retina*, **2019**, 3, 1026-1034	3.8	15
120	Presymptomatic Retinal Sensitivity Changes in Intermediate Age-Related Macular Degeneration Associated With New Retinal Fluid. *Translational Vision Science and Technology*, **2019**, 8, 3	3.3	5
119	Reply. *Ophthalmology*, **2019**, 126, e92-e93	7.3	
118	Effects of Exogenous Neuroglobin (Ngb) on retinal inflammatory chemokines and microglia in a rat model of transient hypoxia. *Scientific Reports*, **2019**, 9, 18799	4.9	6
117	Subthreshold Nanosecond Laser Intervention in Age-Related Macular Degeneration: The LEAD Randomized Controlled Clinical Trial. *Ophthalmology*, **2019**, 126, 829-838	7.3	89
116	The NLRP3 Inflammasome May Contribute to Pathologic Neovascularization in the Advanced Stages of Diabetic Retinopathy. *Scientific Reports*, **2018**, 8, 2847	4.9	70
115	Relationship between reticular pseudodrusen and choroidal thickness in intermediate age-related macular degeneration. *Clinical and Experimental Ophthalmology*, **2018**, 46, 485-494	2.4	6
114	Interpretation of Subretinal Fluid Using OCT in Intermediate Age-Related Macular Degeneration. *Ophthalmology Retina*, **2018**, 2, 792-802	3.8	11

113	Topographic Rod Recovery Profiles after a Prolonged Dark Adaptation in Subjects with Reticular Pseudodrusen. *Ophthalmology Retina*, **2018**, 2, 1206-1217	3.8	8
112	Subretinal Drusenoid Deposits and the Loss of Rod Function in Intermediate Age-Related Macular Degeneration **2018**, 59, 4154-4161		13
111	Electrical Field Shaping Techniques in a Feline Model of Retinal Degeneration. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2018**, 2018, 1222-1225	0.9	3
110	A Tablet-Based Retinal Function Test in Neovascular Age-Related Macular Degeneration Eyes and At-Risk Fellow Eye. *Translational Vision Science and Technology*, **2018**, 7, 2	3.3	10
109	Longitudinal Changes in Retinotopic Rod Function in Intermediate Age-Related Macular Degeneration **2018**, 59, AMD19-AMD24		19
108	Safety Studies for a 44-Channel Suprachoroidal Retinal Prosthesis: A Chronic Passive Study **2018**, 59, 1410-1424		23
107	Home Monitoring of Retinal Sensitivity on a Tablet Device in Intermediate Age-Related Macular Degeneration. *Translational Vision Science and Technology*, **2018**, 7, 32	3.3	13
106	Repeatability of Retinal Sensitivity Measurements Using a Medmont Dark-Adapted Chromatic Perimeter in Healthy and Age-Related Macular Degeneration Cases. *Translational Vision Science and Technology*, **2018**, 7, 3	3.3	9
105	Relationship between reticular pseudodrusen and choroidal thickness in intermediate age-related macular degeneration: response. *Clinical and Experimental Ophthalmology*, **2018**, 46, 967-968	2.4	
104	Classification of healthy and diseased retina using SD-OCT imaging and Random Forest algorithm. *PLoS ONE*, **2018**, 13, e0198281	3.7	34
103	Subthreshold Nanosecond Laser Intervention in Intermediate Age-Related Macular Degeneration: Study Design and Baseline Characteristics of the Laser in Early Stages of Age-Related Macular Degeneration Study (Report Number 1). *Ophthalmology Retina*, **2017**, 1, 227-239	3.8	23
102	Cannula-based drug delivery to the guinea pig round window causes a lasting hearing loss that may be temporarily mitigated by BDNF. *Hearing Research*, **2017**, 356, 104-115	3.9	3
101	Neural Responses to Multielectrode Stimulation of Healthy and Degenerate Retina **2017**, 58, 3770-3784		16
100	Quantitative Analysis of the Ellipsoid Zone Intensity in Phenotypic Variations of Intermediate Age-Related Macular Degeneration **2017**, 58, 2079-2086		18
99	Imaging Lenticular Autofluorescence in Older Subjects **2017**, 58, 4940-4947		7
98	Automatic Identification of Pathology-Distorted Retinal Layer Boundaries Using SD-OCT Imaging. *IEEE Transactions on Biomedical Engineering*, **2017**, 64, 1638-1649	5	18
97	Micro-Computed Tomography Detection of Gold Nanoparticle-Labelled Mesenchymal Stem Cells in the Rat Subretinal Layer. *International Journal of Molecular Sciences*, **2017**, 18,	6.3	17
96	Developing a Very Low Vision Orientation and Mobility Test Battery (O&M-VLV). *Optometry and Vision Science*, **2016**, 93, 1127-36	2.1	15

95	Development of a Magnetic Attachment Method for Bionic Eye Applications. *Artificial Organs*, **2016**, 40, E12-24	2.6	9
94	Fractal Dimension Analysis of Transient Visual Evoked Potentials: Optimisation and Applications. *PLoS ONE*, **2016**, 11, e0161565	3.7	4
93	Characterization of Fatty Acid Binding Protein 7 (FABP7) in the Murine Retina **2016**, 57, 3397-408		11
92	Progress in the clinical development and utilization of vision prostheses: an update. *Eye and Brain*, **2016**, 8, 15-25	5.7	14
91	Longitudinal Associations Between Microstructural Changes and Microperimetry in the Early Stages of Age-Related Macular Degeneration **2016**, 57, 3714-22		35
90	Stimulation of a Suprachoroidal Retinal Prosthesis Drives Cortical Responses in a Feline Model of Retinal Degeneration **2016**, 57, 5216-5229		16
89	Assessment of Retinotopic Rod Photoreceptor Function Using a Dark-Adapted Chromatic Perimeter in Intermediate Age-Related Macular Degeneration **2016**, 57, 5436-5442		34
88	Reticular Pseudodrusen in Intermediate Age-Related Macular Degeneration: Prevalence, Detection, Clinical, Environmental, and Genetic Associations **2016**, 57, 1310-6		44
87	Retinal Changes in an ATP-Induced Model of Retinal Degeneration. *Frontiers in Neuroanatomy*, **2016**, 10, 46	3.6	13
86	Rasch Analysis of the Independent Mobility Questionnaire. *Optometry and Vision Science*, **2016**, 93, 181-7	2.1	5
85	Ellipsoid zone on optical coherence tomography: a review. *Clinical and Experimental Ophthalmology*, **2016**, 44, 422-30	2.4	45
84	Advances in implantable bionic devices for blindness: a review. *ANZ Journal of Surgery*, **2016**, 86, 654-9	1	58
83	Mfsd2a Is a Transporter for the Essential ω3 Fatty Acid Docosahexaenoic Acid (DHA) in Eye and Is Important for Photoreceptor Cell Development. *Journal of Biological Chemistry*, **2016**, 291, 10501-14	5.4	77
82	Charles Bonnet Syndrome in Advanced Retinitis Pigmentosa. *Ophthalmology*, **2015**, 122, 1951-3	7.3	11
81	Safety and efficacy of explanting or replacing suprachoroidal electrode arrays in a feline model. *Clinical and Experimental Ophthalmology*, **2015**, 43, 247-58	2.4	10
80	Associations of retinal oximetry in persons with diabetes. *Clinical and Experimental Ophthalmology*, **2015**, 43, 124-31	2.4	10
79	Measurement of Retinal Sensitivity on Tablet Devices in Age-Related Macular Degeneration. *Translational Vision Science and Technology*, **2015**, 4, 13	3.3	17
78	Safety and Efficacy of Human Wharton's Jelly-Derived Mesenchymal Stem Cells Therapy for Retinal Degeneration. *PLoS ONE*, **2015**, 10, e0128973	3.7	45

77	Impact of reticular pseudodrusen on microperimetry and multifocal electroretinography in intermediate age-related macular degeneration **2015**, 56, 2100-6		35
76	Test-Retest Repeatability of Microperimetry at the Border of Deep Scotomas **2015**, 56, 2606-11		30
75	Longitudinal changes in microperimetry and low luminance visual acuity in age-related macular degeneration. *JAMA Ophthalmology*, **2015**, 133, 442-8	3.9	59
74	Author reply: To PMID 25109931. *Ophthalmology*, **2015**, 122, e53-4	7.3	
73	Fundus autofluorescence characteristics of nascent geographic atrophy in age-related macular degeneration. *Investigative Ophthalmology and Visual Science*, **2015**, 56, 1546-52		39
72	Nanosecond laser therapy reverses pathologic and molecular changes in age-related macular degeneration without retinal damage. *FASEB Journal*, **2015**, 29, 696-710	0.9	73
71	Microperimetry of nascent geographic atrophy in age-related macular degeneration. *Investigative Ophthalmology and Visual Science*, **2014**, 56, 115-21		35
70	Reticular pseudodrusen: a risk factor for geographic atrophy in fellow eyes of individuals with unilateral choroidal neovascularization. *Ophthalmology*, **2014**, 121, 1252-6	7.3	116
69	Factors affecting perceptual thresholds in a suprachoroidal retinal prosthesis **2014**, 55, 6467-81		78
68	Development of a surgical procedure for implantation of a prototype suprachoroidal retinal prosthesis. *Clinical and Experimental Ophthalmology*, **2014**, 42, 665-74	2.4	34
67	Decreased retinal capillary flow is not a mediator of the protective myopia-diabetic retinopathy relationship. *Investigative Ophthalmology and Visual Science*, **2014**, 55, 6901-7		12
66	Optical coherence tomography-defined changes preceding the development of drusen-associated atrophy in age-related macular degeneration. *Ophthalmology*, **2014**, 121, 2415-22	7.3	153
65	Low-luminance visual acuity and microperimetry in age-related macular degeneration. *Ophthalmology*, **2014**, 121, 1612-9	7.3	61
64	Relationship between retinal microstructures on optical coherence tomography and microperimetry in age-related macular degeneration. *Ophthalmology*, **2014**, 121, 1445-52	7.3	55
63	Effects of simvastatin on retinal structure and function of a high-fat atherogenic mouse model of thickened Bruch's membrane **2014**, 55, 460-8		18
62	Cortical activation following chronic passive implantation of a wide-field suprachoroidal retinal prosthesis. *Journal of Neural Engineering*, **2014**, 11, 046017	5	13
61	ATP-induced photoreceptor death in a feline model of retinal degeneration. *Investigative Ophthalmology and Visual Science*, **2014**, 55, 8319-29		27
60	Comparison between multifocal electroretinography and microperimetry in age-related macular degeneration **2014**, 55, 6431-9		31

59	Optical coherence tomography-guided retinal prosthesis design: model of degenerated retinal curvature and thickness for patient-specific devices. *Artificial Organs*, **2014**, 38, E82-94	2.6	8
58	Nanosecond-laser application in intermediate AMD: 12-month results of fundus appearance and macular function. *Clinical and Experimental Ophthalmology*, **2014**, 42, 466-79	2.4	47
57	Bionic Eyes: Vision Restoration Through Electronic or Photovoltaic Stimulation. *Pancreatic Islet Biology*, **2014**, 257-273	0.4	
56	Assessing residual visual function in severe vision loss **2014**, 55, 1332-8		12
55	First-in-human trial of a novel suprachoroidal retinal prosthesis. *PLoS ONE*, **2014**, 9, e115239	3.7	201
54	Associations of retinal oximetry in healthy young adults **2014**, 55, 1763-9		15
53	Developing an instrumental activities of daily living tool as part of the low vision assessment of daily activities protocol. *Investigative Ophthalmology and Visual Science*, **2014**, 55, 8458-66		19
52	Chronic electrical stimulation with a suprachoroidal retinal prosthesis: a preclinical safety and efficacy study. *PLoS ONE*, **2014**, 9, e97182	3.7	34
51	Assessment and monitoring of retinal function in age-related macular degeneration **2014**, 114-123		
50	Second reflective band intensity in age-related macular degeneration. *Ophthalmology*, **2013**, 120, 1307-8, e1	7.3	16
49	Full-field electroretinogram findings in children in the atropine treatment for myopia (ATOM2) study. *Documenta Ophthalmologica*, **2013**, 126, 177-86	2.2	29
48	Visual contrast sensitivity in major depressive disorder. *Journal of Psychosomatic Research*, **2013**, 75, 83-6	4.1	32
47	Hypoxia-induced retinal ganglion cell damage through activation of AMPA receptors and the neuroprotective effects of DNQX. *Experimental Eye Research*, **2013**, 109, 83-97	3.7	11
46	Image processing for visual prostheses: A clinical perspective **2013**,		3
45	Retinal neurovascular and neuronal dysfunction in type 1 diabetes **2013**, 54, 1838		1
44	Intrasession test-retest variability of microperimetry in age-related macular degeneration **2013**, 54, 7378-85		87
43	Reliability and reproducibility of retinal oxygen saturation measurements using a predefined peri-papillary annulus. *Acta Ophthalmologica*, **2013**, 91, e590-4	3.7	16
42	Choroidal thickness profiles in retinitis pigmentosa. *Clinical and Experimental Ophthalmology*, **2013**, 41, 396-403	2.4	59

41	Neuroprotective effect of melatonin against hypoxia-induced retinal ganglion cell death in neonatal rats. *Journal of Pineal Research*, **2013**, 54, 190-206	10.4	45
40	Relationship between the second reflective band on optical coherence tomography and multifocal electroretinography in age-related macular degeneration **2013**, 54, 2800-6		32
39	Intraocular pressure lowering is associated with an increase in the photopic negative response (PhNR) amplitude in glaucoma and ocular hypertensive eyes **2013**, 54, 1913-9		41
38	Static and flicker perimetry in age-related macular degeneration **2013**, 54, 3560-8		21
37	Axial length, retinal function, and oxygen consumption: a potential mechanism for a lower risk of diabetic retinopathy in longer eyes **2013**, 54, 7691-8		31
36	A wide-field suprachoroidal retinal prosthesis is stable and well tolerated following chronic implantation **2013**, 54, 3751-62		70
35	Progressive myopia or hyperopia can be induced in chicks and reversed by manipulation of the chromaticity of ambient light **2013**, 54, 8004-12		70
34	Preclinical safety evaluation of subretinal AAV2.sFlt-1 in non-human primates. *Gene Therapy*, **2012**, 19, 999-1009	4	40
33	Role of flicker perimetry in predicting onset of late-stage age-related macular degeneration. *JAMA Ophthalmology*, **2012**, 130, 690-9		22
32	Visual cortex responses to single- and simultaneous multiple-electrode stimulation of the retina: implications for retinal prostheses **2012**, 53, 6291-300		58
31	Electrophysiological findings in a porcine model of selective retinal capillary closure **2012**, 53, 2218-25		8
30	Visual cortex responses to suprachoroidal electrical stimulation of the retina: effects of electrode return configuration. *Journal of Neural Engineering*, **2012**, 9, 036009	5	55
29	Hypoxia-induced activation of N-methyl-D-aspartate receptors causes retinal ganglion cell death in the neonatal retina. *Journal of Neuropathology and Experimental Neurology*, **2012**, 71, 330-47	3.1	16
28	Central retinal function as measured by the multifocal electroretinogram and flicker perimetry in early age-related macular degeneration **2011**, 52, 9267-74		31
27	Fluvastatin downregulates VEGF-A expression in TNF-□nduced retinal vessel tortuosity **2011**, 52, 7423-31		16
26	Retinal ganglion cell death is induced by microglia derived pro-inflammatory cytokines in the hypoxic neonatal retina. *Journal of Pathology*, **2011**, 224, 245-60	9.4	98
25	Animal models of retinal disease. *Progress in Molecular Biology and Translational Science*, **2011**, 100, 211-86	4	63
24	A role for photoreceptors in retinal oedema and angiogenesis: an additional explanation for laser treatment?. *Eye*, **2010**, 24, 918-26	4.4	11

23	A porcine model of selective retinal capillary closure induced by embolization with fluorescent microspheres **2010**, 51, 6700-9		12
22	Correlation between retinal oscillatory potentials and retinal vascular caliber in type 2 diabetes **2010**, 51, 482-6		64
21	Evaluation of stimulus parameters and electrode geometry for an effective suprachoroidal retinal prosthesis. *Journal of Neural Engineering*, **2010**, 7, 036008	5	65
20	Physical Factors in Myopia and Potential Therapies **2010**, 361-386		
19	Retinal Function **2010**, 149-159		
18	Cellular and vascular changes in the retina of neonatal rats after an acute exposure to hypoxia **2009** , 50, 5364-74		47
17	The outer and inner retinal function in patients with multiple evanescent white dot syndrome. *Clinical and Experimental Ophthalmology*, **2009**, 37, 478-84	2.4	13
16	Correlation between peripapillary atrophy and corticosteroid therapy in patients with Vogt-Koyanagi-Harada disease. *Eye*, **2008**, 22, 240-5	4.4	29
15	Bradyopsia in an Asian man. *JAMA Ophthalmology*, **2007**, 125, 1138-40		20
14	Features of the multifocal electroretinogram may predict the rate of myopia progression in children. *Ophthalmology*, **2007**, 114, 1433-8	7.3	12
13	Electrophysiological findings in patients with dengue-related maculopathy. *JAMA Ophthalmology*, **2006**, 124, 1421-6		16
12	Multifocal electroretinogram in adults and children with myopia. *JAMA Ophthalmology*, **2006**, 124, 328-34		56
11	Visual function in Vogt-Koyanagi-Harada patients. *Graefe's Archive for Clinical and Experimental Ophthalmology*, **2005**, 243, 785-90	3.8	37
10	The ON/OFF-response in retinopathy of prematurity subjects with myopia. *Documenta Ophthalmologica*, **2005**, 110, 155-61	2.2	8
9	Multifocal electroretinogram in children on atropine treatment for myopia. *British Journal of Ophthalmology*, **2005**, 89, 151-3	5.5	39
8	Clinical application of the multifocal visual evoked potential. *Australasian journal of optometry, The*, **2004**, 87, 163-70	2.7	2
7	Optic disk and retinal characteristics in myopic children. *American Journal of Ophthalmology*, **2004**, 138, 160-2	4.9	28
6	Central and peripheral vision loss associated with nefazodone usage. *Documenta Ophthalmologica*, **2003**, 106, 319-25	2.2	6

5	The plasticity of vertical motor and sensory fusion in normal subjects. *Strabismus*, **2003**, 11, 109-18	1.3	7
4	Separation of contour and area dependent components in the first and second order kernels of the multifocal pattern appearance evoked potential. *Clinical and Experimental Ophthalmology*, **2002**, 30, 231-4	2.4	1
3	Effects of a non-steroidal (ketorolac tromethamine) and a steroidal (dexamethasone) anti-inflammatory drug on refractive state and ocular growth. *Clinical and Experimental Ophthalmology*, **2001**, 29, 175-8	2.4	2
2	Vertical fixation disparity curve and the effects of vergence training in a normal young adult population. *Optometry and Vision Science*, **2000**, 77, 663-9	2.1	5
1	Pterygium surgery in Victoria: a survey of ophthalmologists. *Australian and New Zealand Journal of Ophthalmology*, **1998**, 26, 271-6		12