Toru Nakazawa

List of Publications by Citations

235 papers	5,652 citations	38 h-index	66 g-index
251 ext. papers	6,566 ext. citations	4 avg, IF	5.59 L-index

#	Paper	IF	Citations
235	Oncomodulin is a macrophage-derived signal for axon regeneration in retinal ganglion cells. *Nature Neuroscience*, **2006**, 9, 843-52	25.5	397
234	Tumor necrosis factor-alpha mediates oligodendrocyte death and delayed retinal ganglion cell loss in a mouse model of glaucoma. *Journal of Neuroscience*, **2006**, 26, 12633-41	6.6	323
233	Monocyte chemoattractant protein 1 mediates retinal detachment-induced photoreceptor apoptosis. *Proceedings of the National Academy of Sciences of the United States of America*, **2007**, 104, 2425-30	11.5	227
232	Comparative therapy evaluation of intravitreal bevacizumab and triamcinolone acetonide on persistent diffuse diabetic macular edema. *American Journal of Ophthalmology*, **2008**, 145, 854-61	4.9	149
231	Photoreceptor cell death and rescue in retinal detachment and degenerations. *Progress in Retinal and Eye Research*, **2013**, 37, 114-40	20.5	134
230	Attenuated glial reactions and photoreceptor degeneration after retinal detachment in mice deficient in glial fibrillary acidic protein and vimentin. *Investigative Ophthalmology and Visual Science*, **2007**, 48, 2760-8		134
229	Brain-derived neurotrophic factor prevents axotomized retinal ganglion cell death through MAPK and PI3K signaling pathways. *Investigative Ophthalmology and Visual Science*, **2002**, 43, 3319-26		125
228	Characterization of cytokine responses to retinal detachment in rats. *Molecular Vision*, **2006**, 12, 867-78	2.3	113
227	Reproducibility of retinal circulation measurements obtained using laser speckle flowgraphy-NAVI in patients with glaucoma. *Clinical Ophthalmology*, **2011**, 5, 1171-6	2.5	101
226	MRI and retinal abnormalities in isolated optic neuritis with myelin oligodendrocyte glycoprotein and aquaporin-4 antibodies: a comparative study. *Journal of Neurology, Neurosurgery and Psychiatry* , **2016**, 87, 446-8	5.5	97
225	The novel Rho kinase (ROCK) inhibitor K-115: a new candidate drug for neuroprotective treatment in glaucoma **2014**, 55, 7126-36		97
224	Early high-dose intravenous methylprednisolone is effective in preserving retinal nerve fiber layer thickness in patients with neuromyelitis optica. *Graefels Archive for Clinical and Experimental Ophthalmology*, **2010**, 248, 1777-85	3.8	90
223	Critical role of Nrf2 in oxidative stress-induced retinal ganglion cell death. *Journal of Neurochemistry*, **2013**, 127, 669-80	6	86
222	Waveform analysis of ocular blood flow and the early detection of normal tension glaucoma **2013**, 54, 7699-706		83
221	Comparison of CCD-equipped laser speckle flowgraphy with hydrogen gas clearance method in the measurement of optic nerve head microcirculation in rabbits. *Experimental Eye Research*, **2013**, 108, 10-5	3.7	82
220	Pitavastatin prevents NMDA-induced retinal ganglion cell death by suppressing leukocyte recruitment. *Journal of Neurochemistry*, **2007**, 100, 1018-31	6	81
219	Optic Nerve Head Blood Flow, as Measured by Laser Speckle Flowgraphy, Is Significantly Reduced in Preperimetric Glaucoma. *Current Eye Research*, **2016**, 41, 1447-1453	2.9	73

218	Genome-wide association study identifies seven novel susceptibility loci for primary open-angle glaucoma. *Human Molecular Genetics*, **2018**, 27, 1486-1496	5.6	72
217	Tumor necrosis factor-alpha mediates photoreceptor death in a rodent model of retinal detachment **2011**, 52, 1384-91		69
216	Intrinsic activation of PI3K/Akt signaling pathway and its neuroprotective effect against retinal injury. *Current Eye Research*, **2003**, 26, 55-63	2.9	68
215	Glaucoma Diagnosis with Machine Learning Based on Optical Coherence Tomography and Color Fundus Images. *Journal of Healthcare Engineering*, **2019**, 2019, 4061313	3.7	65
214	Ocular Blood Flow and Influencing Factors for Glaucoma. *Asia-Pacific Journal of Ophthalmology*, **2016**, 5, 38-44	3.5	61
213	Laser speckle and hydrogen gas clearance measurements of optic nerve circulation in albino and pigmented rabbits with or without optic disc atrophy. *Investigative Ophthalmology and Visual Science*, **2014**, 55, 7991-6		59
212	Significant correlations between optic nerve head microcirculation and visual field defects and nerve fiber layer loss in glaucoma patients with myopic glaucomatous disk. *Clinical Ophthalmology*, **2011**, 5, 1721-7	2.5	58
211	Neuroprotective effect of nipradilol on axotomized rat retinal ganglion cells. *Current Eye Research*, **2002**, 24, 114-22	2.9	54
210	RNA sequence reveals mouse retinal transcriptome changes early after axonal injury. *PLoS ONE*, **2014**, 9, e93258	3.7	52
209	Metabolic stress response implicated in diabetic retinopathy: the role of calpain, and the therapeutic impact of calpain inhibitor. *Neurobiology of Disease*, **2012**, 48, 556-67	7.5	51
208	Lesion length of optic neuritis impacts visual prognosis in neuromyelitis optica. *Journal of Neuroimmunology*, **2016**, 293, 28-33	3.5	51
207	Relative flow volume, a novel blood flow index in the human retina derived from laser speckle flowgraphy **2014**, 55, 3899-904		49
206	Inhibition of vascular adhesion protein-1 suppresses endotoxin-induced uveitis. *FASEB Journal*, **2008**, 22, 1094-103	0.9	49
205	Critical role of calpain in axonal damage-induced retinal ganglion cell death. *Journal of Neuroscience Research*, **2012**, 90, 802-15	4.4	48
204	Estrogen has a neuroprotective effect on axotomized RGCs through ERK signal transduction pathway. *Brain Research*, **2006**, 1093, 141-9	3.7	48
203	HIV protease inhibitors provide neuroprotection through inhibition of mitochondrial apoptosis in mice. *Journal of Clinical Investigation*, **2008**, 118, 2025-38	15.9	47
202	Pulse-waveform analysis of normal population using laser speckle flowgraphy. *Current Eye Research* , **2014**, 39, 1207-15	2.9	46
201	Heat shock protein 70 (HSP70) is critical for the photoreceptor stress response after retinal detachment via modulating anti-apoptotic Akt kinase. *American Journal of Pathology*, **2011**, 178, 1080-91	5.8	46

200	Association between optic nerve blood flow and objective examinations in glaucoma patients with generalized enlargement disc type. *Clinical Ophthalmology*, **2011**, 5, 1549-56	2.5	39
199	ERK1 plays a critical protective role against N-methyl-D-aspartate-induced retinal injury. *Journal of Neuroscience Research*, **2008**, 86, 136-44	4.4	39
198	Presence of mitogen-activated protein kinase in retinal Müller cells and its neuroprotective effect ischemia-reperfusion injury. *NeuroReport*, **2002**, 13, 2103-7	1.7	39
197	Genetic characteristics of retinitis pigmentosa in 1204 Japanese patients. *Journal of Medical Genetics*, **2019**, 56, 662-670	5.8	38
196	Different etiologies and prognoses of optic neuritis in demyelinating diseases. *Journal of Neuroimmunology*, **2016**, 299, 152-157	3.5	38
195	The influence of posture change on ocular blood flow in normal subjects, measured by laser speckle flowgraphy. *Current Eye Research*, **2013**, 38, 691-8	2.9	38
194	Ophthalmologic examinations in areas of Miyagi Prefecture affected by the Great East Japan Earthquake. *JAMA Ophthalmology*, **2014**, 132, 874-6	3.9	37
193	N-Methyl-D-Aspartic acid suppresses Akt activity through protein phosphatase in retinal ganglion cells. *Molecular Vision*, **2005**, 11, 1173-82	2.3	37
192	Correlation between structure/function and optic disc microcirculation in myopic glaucoma, measured with laser speckle flowgraphy. *BMC Ophthalmology*, **2014**, 14, 113	2.3	36
191	A polymeric device for controlled transscleral multi-drug delivery to the posterior segment of the eye. *Acta Biomaterialia*, **2014**, 10, 680-7	10.8	36
190	3D evaluation of the lamina cribrosa with swept-source optical coherence tomography in normal tension glaucoma. *PLoS ONE*, **2015**, 10, e0122347	3.7	36
189	Effect of topical tafluprost on optic nerve head blood flow in patients with myopic disc type. *Journal of Glaucoma*, **2013**, 22, 398-403	2.1	35
188	Fiber-based polarization-sensitive OCT for birefringence imaging of the anterior eye segment. *Biomedical Optics Express*, **2015**, 6, 369-89	3.5	34
187	The neuroprotective effect of hesperidin in NMDA-induced retinal injury acts by suppressing oxidative stress and excessive calpain activation. *Scientific Reports*, **2017**, 7, 6885	4.9	34
186	The association between systemic oxidative stress and ocular blood flow in patients with normal-tension glaucoma. *Graefels Archive for Clinical and Experimental Ophthalmology*, **2016**, 254, 333-41	3.8	33
185	Progression of visual field defects in eyes with different optic disc appearances in patients with normal tension glaucoma. *Journal of Glaucoma*, **2012**, 21, 426-30	2.1	32
184	Comparative expression profiles of Trk receptors and Shc-related phosphotyrosine adapters during retinal development: potential roles of N-Shc/ShcC in brain-derived neurotrophic factor signal transduction and modulation. *Journal of Neuroscience Research*, **2002**, 68, 668-80	4.4	32
183	Suppression of phagocytic cells in retinal disorders using amphiphilic poly(γ-glutamic acid) nanoparticles containing dexamethasone. *Journal of Controlled Release*, **2011**, 151, 65-73	11.7	31

182	Characteristic Profiles of Inflammatory Cytokines in the Aqueous Humor of Glaucomatous Eyes. *Ocular Immunology and Inflammation*, **2018**, 26, 1177-1188	2.8	30
181	Development of Azo-Based Fluorescent Probes to Detect Different Levels of Hypoxia. *Angewandte Chemie*, **2013**, 125, 13266-13270	3.6	29
180	The effect of intravitreal bevacizumab on ocular blood flow in diabetic retinopathy and branch retinal vein occlusion as measured by laser speckle flowgraphy. *Clinical Ophthalmology*, **2014**, 8, 1119-27	2.5	28
179	Classification of optic disc shape in glaucoma using machine learning based on quantified ocular parameters. *PLoS ONE*, **2017**, 12, e0190012	3.7	27
178	The role of calpain in an in vivo model of oxidative stress-induced retinal ganglion cell damage. *Biochemical and Biophysical Research Communications*, **2014**, 451, 510-5	3.4	27
177	Intraocular concentrations of cytokines and chemokines in rhegmatogenous retinal detachment and the effect of intravitreal triamcinolone acetonide. *American Journal of Ophthalmology*, **2013**, 155, 1028-1037.e1	4.9	27
176	Pretreatment of posterior subtenon injection of triamcinolone acetonide has beneficial effects for grid pattern photocoagulation against diffuse diabetic macular oedema. *British Journal of Ophthalmology*, **2007**, 91, 449-54	5.5	27
175	Neuroprotective effect of latanoprost on rat retinal ganglion cells. *Graefels Archive for Clinical and Experimental Ophthalmology*, **2006**, 244, 1003-9	3.8	27
174	Metabolomic profiling of reactive persulfides and polysulfides in the aqueous and vitreous humors. *Scientific Reports*, **2017**, 7, 41984	4.9	26
173	Clinical Factors Associated with Lamina Cribrosa Thickness in Patients with Glaucoma, as Measured with Swept Source Optical Coherence Tomography. *PLoS ONE*, **2016**, 11, e0153707	3.7	25
172	Age- and Sex-Dependency of Laser Speckle Flowgraphy Measurements of Optic Nerve Vessel Microcirculation. *PLoS ONE*, **2016**, 11, e0148812	3.7	24
171	Estimation of Jones matrix, birefringence and entropy using Cloude-Pottier decomposition in polarization-sensitive optical coherence tomography. *Biomedical Optics Express*, **2016**, 7, 3551-3573	3.5	23
170	Preperimetric Glaucoma Prospective Study (PPGPS): Predicting Visual Field Progression With Basal Optic Nerve Head Blood Flow in Normotensive PPG Eyes. *Translational Vision Science and Technology*, **2018**, 7, 11	3.3	23
169	Phenotypic Features of Oguchi Disease and Retinitis Pigmentosa in Patients with S-Antigen Mutations: A Long-Term Follow-up Study. *Ophthalmology*, **2019**, 126, 1557-1566	7.3	23
168	Relationship of skin autofluorescence to severity of retinopathy in type 2 diabetes. *Current Eye Research*, **2015**, 40, 338-45	2.9	22
167	Different types of optic disc shape in patients with advanced open-angle glaucoma. *Japanese Journal of Ophthalmology*, **2010**, 54, 291-5	2.6	22
166	Ocular microcirculation measurement with laser speckle flowgraphy and optical coherence tomography angiography in glaucoma. *Acta Ophthalmologica*, **2018**, 96, e485-e492	3.7	21
165	Simulated visual fields produced from macular RNFLT data in patients with glaucoma. *Current Eye Research*, **2013**, 38, 1133-41	2.9	21

164	Measurement of Electroretinograms and Visually Evoked Potentials in Awake Moving Mice. *PLoS ONE*, **2016**, 11, e0156927	3.7	21
163	Subclinical retinal atrophy in the unaffected fellow eyes of multiple sclerosis and neuromyelitis optica. *Journal of Neuroimmunology*, **2017**, 313, 10-15	3.5	20
162	Correlation of optic nerve microcirculation with papillomacular bundle structure in treatment naive normal tension glaucoma. *Journal of Ophthalmology*, **2014**, 2014, 468908	2	20
161	Transcriptome profiling of the rat retina after optic nerve transection. *Scientific Reports*, **2016**, 6, 28736	4.9	19
160	Comparison of Machine-Learning Classification Models for Glaucoma Management. *Journal of Healthcare Engineering*, **2018**, 2018, 6874765	3.7	19
159	A platform for controlled dual-drug delivery to the retina: protective effects against light-induced retinal damage in rats. *Advanced Healthcare Materials*, **2014**, 3, 1555-60, 1524	10.1	19
158	The reduction of temporal optic nerve head microcirculation in autosomal dominant optic atrophy. *Acta Ophthalmologica*, **2016**, 94, e580-e585	3.7	19
157	Real-time imaging of RGC death with a cell-impermeable nucleic acid dyeing compound after optic nerve crush in a murine model. *Experimental Eye Research*, **2016**, 146, 179-188	3.7	19
156	Investigating the effect of ciliary body photodynamic therapy in a glaucoma mouse model. *Investigative Ophthalmology and Visual Science*, **2006**, 47, 2498-507		18
155	Genetic analysis of Japanese primary open-angle glaucoma patients and clinical characterization of risk alleles near CDKN2B-AS1, SIX6 and GAS7. *PLoS ONE*, **2017**, 12, e0186678	3.7	18
154	Factors associated with deep circulation in the peripapillary chorioretinal atrophy zone in normal-tension glaucoma with myopic disc. *Acta Ophthalmologica*, **2018**, 96, e290-e297	3.7	18
153	Relationship between laser speckle flowgraphy and optical coherence tomography angiography measurements of ocular microcirculation. *Graefels Archive for Clinical and Experimental Ophthalmology*, **2017**, 255, 1633-1642	3.8	17
152	Spatially and Temporally Regulated Gene Therapy Using Promoter in Retinal Ganglion Cell Injury. *Molecular Therapy - Methods and Clinical Development*, **2017**, 5, 130-141	6.4	17
151	Macular Dystrophy and Cone-Rod Dystrophy Caused by Mutations in the RP1 Gene: Extending the RP1 Disease Spectrum **2019**, 60, 1192-1203		17
150	Single AAV-mediated mutation replacement genome editing in limited number of photoreceptors restores vision in mice. *Nature Communications*, **2020**, 11, 482	17.4	17
149	Correlation of papillomacular nerve fiber bundle thickness with central visual function in open-angle glaucoma. *Journal of Ophthalmology*, **2015**, 2015, 460918	2	17
148	Retinal G-substrate, potential downstream component of NO/cGMP/PKG pathway, is located in subtype of retinal ganglion cells and amacrine cells with protein phosphatases. *Molecular Brain Research*, **2005**, 135, 58-68		17
147	Transscleral sustained vasohibin-1 delivery by a novel device suppressed experimentally-induced choroidal neovascularization. *PLoS ONE*, **2013**, 8, e58580	3.7	17

146	OCT-Based Quantification and Classification of Optic Disc Structure in Glaucoma Patients. *PLoS ONE*, **2016**, 11, e0160226	3.7	17
145	Recent Clinical Applications of Laser Speckle Flowgraphy in Eyes with Retinal Disease. *Asia-Pacific Journal of Ophthalmology*, **2016**, 5, 151-8	3.5	17
144	Correlation of magnetic resonance imaging optic nerve parameters to optical coherence tomography and the visual field in glaucoma. *Clinical and Experimental Ophthalmology*, **2014**, 42, 360-8	2.4	16
143	First case of primary intraocular natural killer t-cell lymphoma. *BMC Ophthalmology*, **2015**, 15, 169	2.3	16
142	Stereoscopic analysis of optic nerve head parameters in primary open angle glaucoma: the glaucoma stereo analysis study. *PLoS ONE*, **2014**, 9, e99138	3.7	16
141	Correlation between optic disc microcirculation in glaucoma measured with laser speckle flowgraphy and fluorescein angiography, and the correlation with mean deviation. *Clinical and Experimental Ophthalmology*, **2014**, 42, 293-4	2.4	16
140	Correlation between peripapillary macular fiber layer thickness and visual acuity in patients with open-angle glaucoma. *Clinical Ophthalmology*, **2010**, 4, 629-35	2.5	16
139	The Effect of Systemic Hyperoxia on Optic Nerve Head Blood Flow in Primary Open-Angle Glaucoma Patients **2017**, 58, 3181-3188		15
138	The relationship between advanced glycation end products and ocular circulation in type 2 diabetes. *Journal of Diabetes and Its Complications*, **2016**, 30, 1371-7	3.2	15
137	A frequent variant in the Japanese population determines quasi-Mendelian inheritance of rare retinal ciliopathy. *Nature Communications*, **2019**, 10, 2884	17.4	15
136	Calpain-mediated degradation of G-substrate plays a critical role in retinal excitotoxicity for amacrine cells. *Journal of Neuroscience Research*, **2009**, 87, 1412-23	4.4	15
135	The Impact of Intraocular Pressure Elevation on Optic Nerve Head and Choroidal Blood Flow **2018**, 59, 3488-3496		14
134	Quantitative MRI evaluation of glaucomatous changes in the visual pathway. *PLoS ONE*, **2018**, 13, e0197027	3.7	14
133	Photoreceptor protection after photodynamic therapy using dexamethasone in a rat model of choroidal neovascularization **2008**, 49, 5008-14		14
132	Longitudinal changes of ocular blood flow using laser speckle flowgraphy during normal pregnancy. *PLoS ONE*, **2017**, 12, e0173127	3.7	14
131	Quantitative analysis of the macula with optical coherence tomography angiography in normal Japanese subjects: The Taiwa Study. *Scientific Reports*, **2019**, 9, 8875	4.9	13
130	Age- and sex-dependency of the association between systemic antioxidant potential and glaucomatous damage. *Scientific Reports*, **2017**, 7, 8032	4.9	13
129	Critical neuroprotective roles of heme oxygenase-1 induction against axonal injury-induced retinal ganglion cell death. *Journal of Neuroscience Research*, **2014**, 92, 1134-42	4.4	13

128	Retinal transcriptome profiling at transcription start sites: a cap analysis of gene expression early after axonal injury. *BMC Genomics*, **2014**, 15, 982	4.5	13
127	Short-term effects of acupuncture on open-angle glaucoma in retrobulbar circulation: additional therapy to standard medication. *Evidence-based Complementary and Alternative Medicine*, **2011**, 2011, 157090	2.3	13
126	In vivo cellular imaging of various stress/response pathways using AAV following axonal injury in mice. *Scientific Reports*, **2015**, 5, 18141	4.9	13
125	Sectoral Differences in the Association of Optic Nerve Head Blood Flow and Glaucomatous Visual Field Defect Severity and Progression **2019**, 60, 2650-2658		12
124	Molecular, anatomical and functional changes in the retinal ganglion cells after optic nerve crush in mice. *Documenta Ophthalmologica*, **2015**, 130, 149-56	2.2	12
123	Quantification of the filtering bleb structure with anterior segment optical coherence tomography. *Clinical and Experimental Ophthalmology*, **2016**, 44, 446-54	2.4	12
122	Characteristics of patients with primary open angle glaucoma and normal tension glaucoma at a university hospital: a cross-sectional retrospective study. *BMC Research Notes*, **2015**, 8, 360	2.3	11
121	Drug reflux during posterior subtenon infusion of triamcinolone acetonide in diffuse diabetic macular edema not only brings insufficient reduction but also causes elevation of intraocular pressure. *Graefels Archive for Clinical and Experimental Ophthalmology*, **2009**, 247, 907-12	3.8	11
120	Predictors of Recurrence in Vogt-Koyanagi-Harada Disease. *Ophthalmology Retina*, **2018**, 2, 343-350	3.8	10
119	Estimation of the Disc Damage Likelihood Scale in primary open-angle glaucoma: the Glaucoma Stereo Analysis Study. *Graefels Archive for Clinical and Experimental Ophthalmology*, **2016**, 254, 523-8	3.8	10
118	Metabolomic changes in the mouse retina after optic nerve injury. *Scientific Reports*, **2018**, 8, 11930	4.9	10
117	Retinal Thickness and the Structure/Function Relationship in the Eyes of Older Adults with Glaucoma. *PLoS ONE*, **2015**, 10, e0141293	3.7	10
116	Rapid Administration of High-Dose Intravenous Methylprednisolone Improves Visual Outcomes After Optic Neuritis in Patients With AQP4-IgG-Positive NMOSD. *Frontiers in Neurology*, **2020**, 11, 932	4.1	10
115	Hierarchical deep learning models using transfer learning for disease detection and classification based on small number of medical images. *Scientific Reports*, **2021**, 11, 4250	4.9	10
114	A pyruvate dehydrogenase kinase inhibitor prevents retinal cell death and improves energy metabolism in rat retinas after ischemia/reperfusion injury. *Experimental Eye Research*, **2020**, 193, 107997	3.7	9
113	Anterior-Segment Optical Coherence Tomography for Predicting Postoperative Outcomes After Trabeculectomy. *Current Eye Research*, **2018**, 43, 762-770	2.9	9
112	Topical ocular dexamethasone decreases intraocular pressure and body weight in rats. *Journal of Negative Results in BioMedicine*, **2016**, 15, 5		9
111	Neuroprotective effect against axonal damage-induced retinal ganglion cell death in apolipoprotein E-deficient mice through the suppression of kainate receptor signaling. *Brain Research*, **2014**, 1586, 203-12	3.7	9

110	The neuroprotective effect of latanoprost acts via klotho-mediated suppression of calpain activation after optic nerve transection. *Journal of Neurochemistry*, **2017**, 140, 495-508	6	9
109	The relationship between laser speckle flowgraphy-measured optic disc microcirculation and postoperative visual recovery in rhegmatogenous retinal detachment. *Acta Ophthalmologica*, **2015**, 93, e397-9	3.7	9
108	Large vessel area of the optic nerve head, measured with laser speckle flowgraphy, is significantly reduced in eyes with preperimetric glaucoma. *Clinical and Experimental Ophthalmology*, **2015**, 43, 841-3	2.4	9
107	Relationship of ocular microcirculation, measured by laser speckle flowgraphy, and silent brain infarction in primary aldosteronism. *PLoS ONE*, **2015**, 10, e0117452	3.7	9
106	Characteristic correlations of the structure-function relationship in different glaucomatous disc types. *Japanese Journal of Ophthalmology*, **2015**, 59, 223-9	2.6	8
105	Assessment of Short-Term Changes in Optic Nerve Head Hemodynamics in Hyperoxic Conditions with Laser Speckle Flowgraphy. *Current Eye Research*, **2015**, 40, 1055-62	2.9	8
104	Association between histological findings and polarization-sensitive optical coherence tomography analysis of a post-trabeculectomy human eye. *Clinical and Experimental Ophthalmology*, **2015**, 43, 685-8	2.4	8
103	Bilberry extract administration prevents retinal ganglion cell death in mice via the regulation of chaperone molecules under conditions of endoplasmic reticulum stress. *Clinical Ophthalmology*, **2017**, 11, 1825-1834	2.5	8
102	Interleukin-6 plays a crucial role in the development of subretinal fibrosis in a mouse model. *Immunological Medicine*, **2018**, 41, 23-29	3.7	8
101	The traditional kampo medicine tokishakuyakusan increases ocular blood flow in healthy subjects. *Evidence-based Complementary and Alternative Medicine*, **2014**, 2014, 586857	2.3	8
100	Comprehensive analysis of vitreous specimens for uveitis classification: a prospective multicentre observational study. *BMJ Open*, **2017**, 7, e014549	3	8
99	Optic nerve head microcirculation in autosomal dominant optic atrophy and normal-tension glaucoma. *Acta Ophthalmologica*, **2017**, 95, e799-e800	3.7	7
98	The relationship between increased oxidative stress and visual field defect progression in glaucoma patients with sleep apnoea syndrome. *Acta Ophthalmologica*, **2018**, 96, e479-e484	3.7	7
97	Historical, Current and Future Approaches to Surgery for Rhegmatogenous Retinal Detachment. *Tohoku Journal of Experimental Medicine*, **2019**, 248, 159-168	2.4	7
96	Optic disc microcirculation in superior segmental optic hypoplasia assessed with laser speckle flowgraphy. *Clinical and Experimental Ophthalmology*, **2014**, 42, 702-4	2.4	7
95	Usefulness of novel laser speckle flowgraphy-derived variables of the large vessel area in the optic nerve head in normal tension glaucoma. *Clinical and Experimental Ophthalmology*, **2014**, 42, 887-9	2.4	7
94	Correlation between morphology of optic disc determined by Heidelberg Retina Tomograph II and visual function in eyes with open-angle glaucoma. *Clinical Ophthalmology*, **2010**, 4, 765-72	2.5	7
93	Preperimetric Glaucoma Prospective Observational Study (PPGPS): Design, baseline characteristics, and therapeutic effect of tafluprost in preperimetric glaucoma eye. *PLoS ONE*, **2017**, 12, e0188692	3.7	7

92	Association between mitochondrial DNA damage and ocular blood flow in patients with glaucoma. *British Journal of Ophthalmology*, **2019**, 103, 1060-1065	5.5	7
91	Brimonidine Enhances the Electrophysiological Response of Retinal Ganglion Cells through the Trk-MAPK/ERK and PI3K Pathways in Axotomized Eyes. *Current Eye Research*, **2017**, 42, 125-133	2.9	6
90	The association between skin autofluorescence and mean deviation in patients with open-angle glaucoma. *British Journal of Ophthalmology*, **2017**, 101, 233-238	5.5	6
89	Macular degeneration as a common cause of visual loss in spinocerebellar ataxia type 1 (SCA1) patients. *Ophthalmic Genetics*, **2019**, 40, 49-53	1.2	6
88	Topographical correlation between macular layer thickness and clockwise circumpapillary retinal nerve fiber layer sectors in patients with normal tension glaucoma. *Current Eye Research*, **2015**, 40, 744-51	2.9	6
87	Evaluation of retinal nerve fiber layer defect using wide-field en-face swept-source OCT images by applying the inner limiting membrane flattening. *PLoS ONE*, **2017**, 12, e0185573	3.7	6
86	Chloride imbalance is involved in the pathogenesis of optic neuritis in neuromyelitis optica. *Journal of Neuroimmunology*, **2018**, 320, 98-100	3.5	6
85	Ecel1 Knockdown With an AAV2-Mediated CRISPR/Cas9 System Promotes Optic Nerve Damage-Induced RGC Death in the Mouse Retina **2018**, 59, 3943-3951		6
84	Development of a new strategy of visual field testing for macular dysfunction in patients with open angle glaucoma. *Japanese Journal of Ophthalmology*, **2013**, 57, 457-62	2.6	6
83	Differentiation of glaucomatous optic discs with different appearances using optic disc topography parameters: The Glaucoma Stereo Analysis Study. *PLoS ONE*, **2017**, 12, e0169858	3.7	6
82	CPAP therapy reduces oxidative stress in patients with glaucoma and OSAS and improves the visual field. *Graefels Archive for Clinical and Experimental Ophthalmology*, **2020**, 258, 939-941	3.8	6
81	Assessing retinal ganglion cell death and neuroprotective agents using real time imaging. *Brain Research*, **2019**, 1714, 65-72	3.7	6
80	The relationship between glutathione levels in leukocytes and ocular clinical parameters in glaucoma. *PLoS ONE*, **2019**, 14, e0227078	3.7	6
79	Correlation between aqueous flare and residual visual field area in retinitis pigmentosa. *British Journal of Ophthalmology*, **2019**, 103, 475-480	5.5	6
78	Reliable detection of low visual acuity in mice with pattern visually evoked potentials. *Scientific Reports*, **2018**, 8, 15948	4.9	6
77	Diagnostic power of laser speckle flowgraphy-measured optic disc microcirculation for open-angle glaucoma: Analysis of 314 eyes. *Clinical and Experimental Ophthalmology*, **2019**, 47, 680-683	2.4	5
76	Metabolic and pathologic profiles of human LSS deficiency recapitulated in mice. *PLoS Genetics*, **2020**, 16, e1008628	6	5
75	The association between oxidative stress and corneal hysteresis in patients with glaucoma. *Scientific Reports*, **2020**, 10, 545	4.9	5

74	Validation of formula-predicted glaucomatous optic disc appearances: the Glaucoma Stereo Analysis Study. *Acta Ophthalmologica*, **2019**, 97, e42-e49	3.7	5
73	Susceptibility to N-methyl-D-aspartate toxicity in morphological and functional types of cat retinal ganglion cells. *Japanese Journal of Ophthalmology*, **2010**, 54, 156-62	2.6	5
72	The Effect of Dietary Antioxidant Supplementation in Patients with Glaucoma. *Clinical Ophthalmology*, **2021**, 15, 2293-2300	2.5	5
71	Effects of Brimonidine and Timolol on the Progression of Visual Field Defects in Open-angle Glaucoma: A Single-center Randomized Trial. *Journal of Glaucoma*, **2019**, 28, 575-583	2.1	5
70	Application of clotrimazole via a novel controlled release device provides potent retinal protection. *Journal of Materials Science: Materials in Medicine*, **2015**, 26, 230	4.5	4
69	What is glaucomatous optic neuropathy?. *Japanese Journal of Ophthalmology*, **2020**, 64, 243-249	2.6	4
68	Structure/function relationship between wide-scan binocular OCT images and the integrated visual field in glaucoma patients. *Clinical and Experimental Ophthalmology*, **2016**, 44, 526-8	2.4	4
67	Regional susceptibility of the optic disc to retinal nerve fiber layer thinning in different optic disc types of eyes with normal tension glaucoma. *Clinical and Experimental Ophthalmology*, **2015**, 43, 291-3	2.4	4
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1 Metabolic and pathologic profiles of human LSS deficiency recapitulated in mice **2020**, 16, e1008628