Alexander Klistorner

List of Publications by Year in Descending Order

124 papers	3,458 citations	32 h-index	55 g-index
128 ext. papers	4,142 ext. citations	4.7 avg, IF	5.08 L-index

#	Paper	IF	Citations
124	Analysis of Multifocal Visual Evoked Potentials Using Artificial Intelligence Algorithms.. *Translational Vision Science and Technology*, **2022**, 11, 10	3.3	
123	The expansion and severity of chronic MS lesions follows a periventricular gradient.. *Multiple Sclerosis Journal*, **2022**, 13524585221080667	5	1
122	Latency of Multifocal Visual Evoked Potential in Multiple Sclerosis: A Visual Pathway Biomarker for Clinical Trials of Remyelinating Therapies. *Journal of Clinical Neurophysiology*, **2021**, 38, 186-191	2.2	3
121	Expansion of chronic lesions is linked to disease progression in relapsing-remitting multiple sclerosis patients. *Multiple Sclerosis Journal*, **2021**, 27, 1533-1542	5	4
120	Multiple sclerosis: structural and functional integrity of the visual system following alemtuzumab therapy. *Journal of Neurology, Neurosurgery and Psychiatry*, **2021**, 92, 1319-1324	5.5	0
119	Trans-synaptic degeneration in the visual pathway: Neural connectivity, pathophysiology, and clinical implications in neurodegenerative disorders. *Survey of Ophthalmology*, **2021**,	6.1	1
118	Differentiating axonal loss and demyelination in chronic MS lesions: A novel approach using single streamline diffusivity analysis. *PLoS ONE*, **2021**, 16, e0244766	3.7	3
117	Interferon-β Is Less Effective Than Other Drugs in Controlling the Rate of Retinal Ganglion Cell Loss in MS. *Neurology: Neuroimmunology and NeuroInflammation*, **2021**, 8,	9.1	3
116	Expansion of chronic MS lesions is associated with an increase of radial diffusivity in periplaque white matter. *Multiple Sclerosis Journal*, **2021**, 13524585211033464	5	1
115	Impaired motion perception is associated with functional and structural visual pathway damage in multiple sclerosis and neuromyelitis optica spectrum disorders. *Multiple Sclerosis Journal*, **2021**, 13524585211032801	5	1
114	Differentiating axonal loss and demyelination in chronic MS lesions: A novel approach using single streamline diffusivity analysis **2021**, 16, e0244766		
113	Differentiating axonal loss and demyelination in chronic MS lesions: A novel approach using single streamline diffusivity analysis **2021**, 16, e0244766		
112	Differentiating axonal loss and demyelination in chronic MS lesions: A novel approach using single streamline diffusivity analysis **2021**, 16, e0244766		
111	Differentiating axonal loss and demyelination in chronic MS lesions: A novel approach using single streamline diffusivity analysis **2021**, 16, e0244766		
110	Differentiating axonal loss and demyelination in chronic MS lesions: A novel approach using single streamline diffusivity analysis **2021**, 16, e0244766		
109	Differentiating axonal loss and demyelination in chronic MS lesions: A novel approach using single streamline diffusivity analysis **2021**, 16, e0244766		
108	Longitudinal optic neuritis-unrelated visual evoked potential changes in NMO spectrum disorders. *Neurology*, **2020**, 94, e407-e418	6.5	23

107	Chronic demyelination exacerbates neuroaxonal loss in patients with MS with unilateral optic neuritis. *Neurology: Neuroimmunology and NeuroInflammation*, **2020**, 7,	9.1	9
106	Reply. *Ophthalmology*, **2019**, 126, e64-e65	7.3	
105	Demyelination precedes axonal loss in the transneuronal spread of human neurodegenerative disease. *Brain*, **2019**, 142, 426-442	11.2	54
104	The electrophysiological assessment of visual function in Multiple Sclerosis. *Clinical Neurophysiology Practice*, **2019**, 4, 90-96	3.8	14
103	Sex-Specific Effect of BDNF Val66Met Genotypes on the Progression of Open-Angle Glaucoma **2019**, 60, 1069-1075		4
102	Evidence of MÜller Glial Dysfunction in Patients with Aquaporin-4 Immunoglobulin G-Positive Neuromyelitis Optica Spectrum Disorder. *Ophthalmology*, **2019**, 126, 801-810	7.3	26
101	Differing Structural and Functional Patterns of Optic Nerve Damage in Multiple Sclerosis and Neuromyelitis Optica Spectrum Disorder. *Ophthalmology*, **2019**, 126, 445-453	7.3	39
100	Lesion activity and chronic demyelination are the major determinants of brain atrophy in MS. *Neurology: Neuroimmunology and NeuroInflammation*, **2019**, 6,	9.1	10
99	Association Between BDNF Val66Met Polymorphism and Optic Neuritis Damage in Neuromyelitis Optica Spectrum Disorder. *Frontiers in Neuroscience*, **2019**, 13, 1236	5.1	2
98	Progressive inner nuclear layer dysfunction in non-optic neuritis eyes in MS. *Neurology: Neuroimmunology and NeuroInflammation*, **2018**, 5, e427	9.1	23
97	Evidence of progressive tissue loss in the core of chronic MS lesions: A longitudinal DTI study. *NeuroImage: Clinical*, **2018**, 17, 1028-1035	5.3	22
96	BDNF Polymorphism: A Review of Its Diagnostic and Clinical Relevance in Neurodegenerative Disorders **2018**, 9, 523-536		65
95	White matter tract-specific quantitative analysis in multiple sclerosis: Comparison of optic radiation reconstruction techniques. *PLoS ONE*, **2018**, 13, e0191131	3.7	8
94	Performance of iPad-based threshold perimetry in glaucoma and controls. *Clinical and Experimental Ophthalmology*, **2018**, 46, 346-355	2.4	31
93	Mechanism of delayed conduction of fellow eyes in patients with optic neuritis. *International Journal of Ophthalmology*, **2018**, 11, 329-332	1.4	5
92	MS-GAN: GAN-Based Semantic Segmentation of Multiple Sclerosis Lesions in Brain Magnetic Resonance Imaging **2018**,		16
91	Pathophysiological basis of low contrast visual acuity loss in multiple sclerosis. *Annals of Clinical and Translational Neurology*, **2018**, 5, 1505-1512	5.3	3
90	Multifocal visual evoked potentials in chronic inflammatory demyelinating polyneuropathy. *Annals of Clinical and Translational Neurology*, **2018**, 5, 952-961	5.3	6

89	Assessment of Opicinumab in Acute Optic Neuritis Using Multifocal Visual Evoked Potential. *CNS Drugs*, **2018**, 32, 1159-1171	6.7	28
88	Diffusivity in the core of chronic multiple sclerosis lesions. *PLoS ONE*, **2018**, 13, e0194142	3.7	6
87	Correlation between inner retinal layer thickness and cognitive function in HIV: new insights from an exploratory study. *Aids*, **2018**, 32, 1485-1490	3.5	7
86	A Deep Learning-Based Algorithm Identifies Glaucomatous Discs Using Monoscopic Fundus Photographs. *Ophthalmology Glaucoma*, **2018**, 1, 15-22	2.2	46
85	Afferent visual pathways in multiple sclerosis: a review. *Clinical and Experimental Ophthalmology*, **2017**, 45, 62-72	2.4	28
84	Microstructural visual system changes in AQP4-antibody-seropositive NMOSD. *Neurology: Neuroimmunology and NeuroInflammation*, **2017**, 4, e334	9.1	84
83	Retinal layer segmentation in multiple sclerosis: a systematic review and meta-analysis. *Lancet Neurology, The*, **2017**, 16, 797-812	24.1	243
82	Progression of retinal ganglion cell loss in multiple sclerosis is associated with new lesions in the optic radiations. *European Journal of Neurology*, **2017**, 24, 1392-1398	6	29
81	Diffusivity in multiple sclerosis lesions: At the cutting edge?. *NeuroImage: Clinical*, **2016**, 12, 219-26	5.3	15
80	Retinal thickness measured with optical coherence tomography and risk of disability worsening in multiple sclerosis: a cohort study. *Lancet Neurology, The*, **2016**, 15, 574-84	24.1	194
79	Progressive Loss of Retinal Ganglion Cells and Axons in Nonoptic Neuritis Eyes in Multiple Sclerosis: A Longitudinal Optical Coherence Tomography Study **2016**, 57, 2311-7		52
78	Serial Diffusion Tensor Imaging of the Optic Radiations after Acute Optic Neuritis. *Journal of Ophthalmology*, **2016**, 2016, 2764538	2	13
77	Progressive Injury in Chronic Multiple Sclerosis Lesions Is Gender-Specific: A DTI Study. *PLoS ONE*, **2016**, 11, e0149245	3.7	9
76	Wallerian Degeneration in the Corticospinal Tract Following Tumefactive Demyelination: Conventional and Advanced Magnetic Resonance Imaging. *Canadian Journal of Neurological Sciences*, **2016**, 43, 726-7	1	
75	Exploring the methods of data analysis in multifocal visual evoked potentials. *Documenta Ophthalmologica*, **2016**, 133, 41-8	2.2	7
74	Multifocal VEP assessment of optic neuritis evolution. *Clinical Neurophysiology*, **2015**, 126, 1617-23	4.3	21
73	Software for analysing multifocal visual evoked potential signal latency progression. *Computers in Biology and Medicine*, **2015**, 59, 134-141	7	5
72	Quality control for retinal OCT in multiple sclerosis: validation of the OSCAR-IB criteria. *Multiple Sclerosis Journal*, **2015**, 21, 163-70	5	172

71	Visual Evoked Potential Recording in a Rat Model of Experimental Optic Nerve Demyelination. *Journal of Visualized Experiments*, **2015**, e52934	1.6	5
70	Physiological Correlates and Predictors of Functional Recovery After Chiasmal Decompression. *Journal of Neuro-Ophthalmology*, **2015**, 35, 348-52	2.6	6
69	Optimizing the Detection of Preperimetric Glaucoma by Combining Structural and Functional Tests **2015**, 56, 7794-7800		3
68	Parallel changes in structural and functional measures of optic nerve myelination after optic neuritis. *PLoS ONE*, **2015**, 10, e0121084	3.7	18
67	Decoding diffusivity in multiple sclerosis: analysis of optic radiation lesional and non-lesional white matter. *PLoS ONE*, **2015**, 10, e0122114	3.7	42
66	Multifocal Visual Evoked Potential (mfVEP) and Pattern-Reversal Visual Evoked Potential Changes in Patients with Visual Pathway Disorders: A Case Series. *Neuro-Ophthalmology*, **2015**, 39, 220-233	0.9	10
65	FTY720 protects retinal ganglion cells in experimental glaucoma **2014**, 55, 3060-6		31
64	A topographical relationship between visual field defects and optic radiation changes in glaucoma **2014**, 55, 5770-5		19
63	Axonal loss of retinal neurons in multiple sclerosis associated with optic radiation lesions. *Neurology*, **2014**, 82, 2165-72	6.5	83
62	BDNF impairment is associated with age-related changes in the inner retina and exacerbates experimental glaucoma. *Biochimica Et Biophysica Acta - Molecular Basis of Disease*, **2014**, 1842, 1567-78	6.9	88
61	Relationship between optical coherence tomography and electrophysiology of the visual pathway in non-optic neuritis eyes of multiple sclerosis patients. *PLoS ONE*, **2014**, 9, e102546	3.7	51
60	Brain derived neurotrophic factor is involved in the regulation of glycogen synthase kinase 3 (GSK3) signalling. *Biochemical and Biophysical Research Communications*, **2014**, 454, 381-6	3.4	24
59	Latency of multifocal visual evoked potentials in nonoptic neuritis eyes of multiple sclerosis patients associated with optic radiation lesions **2014**, 55, 3758-64		36
58	Optic neuropathies: characteristic features and mechanisms of retinal ganglion cell loss. *Reviews in the Neurosciences*, **2013**, 24, 301-21	4.7	54
57	Protective effects of 7,8-dihydroxyflavone on retinal ganglion and RGC-5 cells against excitotoxic and oxidative stress. *Journal of Molecular Neuroscience*, **2013**, 49, 96-104	3.3	69
56	Visual Evoked Potential Recording in Rodents. *Neuromethods*, **2013**, 275-285	0.4	2
55	The Visual Evoked Potential in Humans. *Neuromethods*, **2013**, 287-299	0.4	
54	Axonal loss in non-optic neuritis eyes of patients with multiple sclerosis linked to delayed visual evoked potential. *Neurology*, **2013**, 80, 242-5	6.5	46

53	TrkB receptor signalling: implications in neurodegenerative, psychiatric and proliferative disorders. *International Journal of Molecular Sciences*, **2013**, 14, 10122-42	6.3	131
52	Optic nerve diffusion tensor imaging after acute optic neuritis predicts axonal and visual outcomes. *PLoS ONE*, **2013**, 8, e83825	3.7	34
51	Inner nuclear layer thickening is inversley proportional to retinal ganglion cell loss in optic neuritis. *PLoS ONE*, **2013**, 8, e78341	3.7	29
50	Gaussian wavelet transform and classifier to reliably estimate latency of multifocal visual evoked potentials (mfVEP). *Vision Research*, **2012**, 52, 79-87	2.1	11
49	Biomedical signal acquisition with streaming wireless communication for recording evoked potentials. *Documenta Ophthalmologica*, **2012**, 125, 149-59	2.2	9
48	Focus on molecules: Sphingosine 1 Phosphate (S1P). *Experimental Eye Research*, **2012**, 103, 119-20	3.7	4
47	Axonal loss in a rat model of optic neuritis is closely correlated with visual evoked potential amplitudes using electroencephalogram-based scaling **2012**, 53, 3662		8
46	Shp-2 regulates the TrkB receptor activity in the retinal ganglion cells under glaucomatous stress. *Biochimica Et Biophysica Acta - Molecular Basis of Disease*, **2012**, 1822, 1643-9	6.9	25
45	Anterograde degeneration along the visual pathway after optic nerve injury. *PLoS ONE*, **2012**, 7, e52061	3.7	37
44	Optic nerve magnetisation transfer ratio after acute optic neuritis predicts axonal and visual outcomes. *PLoS ONE*, **2012**, 7, e52291	3.7	13
43	Normalization of visual evoked potentials using underlying electroencephalogram levels improves amplitude reproducibility in rats **2012**, 53, 1473-8		20
42	Transsynaptic retinal degeneration in optic neuropathies: optical coherence tomography study **2012**, 53, 1271-5		35
41	Reproducibility of multifocal VEP latency using different stimulus presentations. *Documenta Ophthalmologica*, **2012**, 125, 43-9	2.2	13
40	Relationship between chronic demyelination of the optic nerve and short term axonal loss. *Journal of Neurology, Neurosurgery and Psychiatry*, **2012**, 83, 311-4	5.5	14
39	Diffusion tensor imaging correlates of visual impairment in multiple sclerosis and chronic optic neuritis **2012**, 53, 825-32		34
38	Magnetisation transfer ratio in optic neuritis is associated with axonal loss, but not with demyelination. *NeuroImage*, **2011**, 56, 21-6	7.9	20
37	Latency delay of visual evoked potential is a real measurement of demyelination in a rat model of optic neuritis **2011**, 52, 6911-8		90
36	Improving reproducibility of VEP recording in rats: electrodes, stimulus source and peak analysis. *Documenta Ophthalmologica*, **2011**, 123, 109-19	2.2	21

35	Low-luminance contrast stimulation is optimal for early detection of glaucoma using multifocal visual evoked potentials **2011**, 52, 3744-50		6
34	Optical coherence tomography in the diagnosis and management of optic neuritis and multiple sclerosis. *Ophthalmic Surgery Lasers and Imaging Retina*, **2011**, 42 Suppl, S28-40	1.4	20
33	Dichoptic suppression of mfVEP amplitude: effect of retinal eccentricity and simulated unilateral visual impairment **2010**, 51, 6549-55		1
32	Interrelationship of optical coherence tomography and multifocal visual-evoked potentials after optic neuritis **2010**, 51, 2770-7		62
31	Fellow eye changes in optic neuritis correlate with the risk of multiple sclerosis. *Multiple Sclerosis Journal*, **2009**, 15, 928-32	5	27
30	Multifocal VEP and OCT in optic neuritis: a topographical study of the structure-function relationship. *Documenta Ophthalmologica*, **2009**, 118, 129-37	2.2	66
29	Identifying preperimetric functional loss in glaucoma: a blue-on-yellow multifocal visual evoked potentials study. *Ophthalmology*, **2009**, 116, 1134-41	7.3	13
28	Night blindness following low-dose isotretinoin. *Journal of the European Academy of Dermatology and Venereology*, **2008**, 22, 893-4	4.6	6
27	Ophthalmic manifestations of demyelination secondary to etanercept. *Clinical and Experimental Ophthalmology*, **2008**, 36, 392-4	2.4	8
26	CD10: A POTENTIAL NON-HLA ANTIGEN IN RENAL TRANSPLANTION. *Transplantation*, **2008**, 86, 507	1.8	
25	Correlation between full-field and multifocal VEPs in optic neuritis. *Documenta Ophthalmologica*, **2008**, 116, 19-27	2.2	67
24	Axonal loss and myelin in early ON loss in postacute optic neuritis. *Annals of Neurology*, **2008**, 64, 325-31	9.4	120
23	Electrophysiological evidence for heterogeneity of lesions in optic neuritis. *Investigative Ophthalmology and Visual Science*, **2007**, 48, 4549-56		46
22	Dichoptic stimulation improves detection of glaucoma with multifocal visual evoked potentials. *Investigative Ophthalmology and Visual Science*, **2007**, 48, 4590-6		14
21	Multifocal blue-on-yellow visual evoked potentials in early glaucoma. *Ophthalmology*, **2007**, 114, 1613-21	7.3	26
20	Multifocal visual evoked potential analysis of inflammatory or demyelinating optic neuritis. *Ophthalmology*, **2006**, 113, 323.e1-323.e2	7.3	44
19	Comparison of objective diagnostic tests in glaucoma: Heidelberg retinal tomography and multifocal visual evoked potentials. *Journal of Glaucoma*, **2006**, 15, 110-6	2.1	22
18	Multifocal visual evoked potential latency analysis: predicting progression to multiple sclerosis. *Archives of Neurology*, **2006**, 63, 847-50		50

17	Multifocal visual evoked responses to dichoptic stimulation using virtual reality goggles: Multifocal VER to dichoptic stimulation. *Documenta Ophthalmologica*, **2006**, 112, 189-99	2.2	6
16	Effect of fixation tasks on multifocal visual evoked potentials. *Clinical and Experimental Ophthalmology*, **2005**, 33, 499-504	2.4	2
15	Intertest variability of mfVEP amplitude: reducing its effect on the interpretation of sequential tests. *Documenta Ophthalmologica*, **2005**, 111, 159-67	2.2	12
14	Effect of check size and stimulation rate on blue-yellow multifocal visual evoked potentials. *Clinical and Experimental Ophthalmology*, **2004**, 32, 270-4	2.4	
13	FUNCTIONAL AEROBIC IMPAIRMENT (FAI) IN ADULTS WITH HIV SEROPOSITIVITY. *Medicine and Science in Sports and Exercise*, **2001**, 33, S27	1.2	
12	Objective perimetry in glaucoma. *Ophthalmology*, **2000**, 107, 2283-99	7.3	124
11	Objective perimetry in glaucoma: recent advances with multifocal stimuli. *Survey of Ophthalmology*, **1999**, 43 Suppl 1, S199-209	6.1	27
10	The diagnostic significance of the multifocal pattern visual evoked potential in glaucoma. *Current Opinion in Ophthalmology*, **1999**, 10, 140-6	5.1	21
9	Electrophysiology: A review of signal origins and applications to investigating glaucoma. *Australian and New Zealand Journal of Ophthalmology*, **1998**, 26, 71-85		28
8	Temporal analysis of the topographic ERG: chromatic versus achromatic stimulation. *Vision Research*, **1998**, 38, 1047-62	2.1	4
7	Temporal analysis of the chromatic flash VEP--separate colour and luminance contrast components. *Vision Research*, **1998**, 38, 3979-4000	2.1	9
6	Severe persistent visual field constriction associated with vigabatrin **1998**, 316, 232-233		32
5	Electrophysiology: a review of signal origins and applications to investigating glaucoma. *Australian and New Zealand Journal of Ophthalmology*, **1998**, 26, 71-85		13
4	Separate magnocellular and parvocellular contributions from temporal analysis of the multifocal VEP. *Vision Research*, **1997**, 37, 2161-9	2.1	91
3	Temporal analysis of the VEP: evidence for separable magnocellular and parvocellular contributions. *Australian and New Zealand Journal of Ophthalmology*, **1996**, 24, 32-4		5
2	Electrophysiological and psychophysical evidence for the development of magnocellular function in children. *Australian and New Zealand Journal of Ophthalmology*, **1996**, 24, 38-40		10
1	Visual function in velocardiofacial syndrome. *Australian and New Zealand Journal of Ophthalmology*, **1996**, 24, 53-5		3