

Kevin C Chan

List of Publications by Year in descending order

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Version: 2024-02-01

87
papers

2,367
citations

201575

27
h-index

243529

44
g-index

92
all docs

92
docs citations

92
times ranked

3094
citing authors

#	ARTICLE	IF	CITATIONS
1	Visual Plasticity in Adulthood: Perspectives from Hebbian and Homeostatic Plasticity. <i>Neuroscientist</i> , 2023, 29, 117-138.	2.6	5
2	Glymphatic imaging and modulation of the optic nerve. <i>Neural Regeneration Research</i> , 2022, 17, 937.	1.6	8
3	Advanced Diffusion MRI of the Visual System in Glaucoma: From Experimental Animal Models to Humans. <i>Biology</i> , 2022, 11, 454.	1.3	3
4	In vivo MRI evaluation of anterograde manganese transport along the visual pathway following whole eye transplantation. <i>Journal of Neuroscience Methods</i> , 2022, 372, 109534.	1.3	3
5	Role of Structural, Metabolic, and Functional <sc>MRI</sc> in Monitoring Visual System Impairment and Recovery. <i>Journal of Magnetic Resonance Imaging</i> , 2021, 54, 1706-1729.	1.9	9
6	Citicoline Modulates Glaucomatous Neurodegeneration Through Intraocular Pressure-Independent Control. <i>Neurotherapeutics</i> , 2021, 18, 1339-1359.	2.1	15
7	In vivo MRI evaluation of early postnatal development in normal and impaired rat eyes. <i>Scientific Reports</i> , 2021, 11, 15513.	1.6	2
8	Diffusion Tensor Imaging of Visual Pathway Abnormalities in Five Glaucoma Animal Models. , 2021, 62, 21.		9
9	Oral Scutellarin Treatment Ameliorates Retinal Thinning and Visual Deficits in Experimental Glaucoma. <i>Frontiers in Medicine</i> , 2021, 8, 681169.	1.2	9
10	Sensory integration abilities for balance in glaucoma, a preliminary study. <i>Scientific Reports</i> , 2021, 11, 19691.	1.6	1
11	Somatosensory Impairments, Falls History and Fear of Falling in Glaucoma - A Survey Study Approach. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 2021, 65, 11-15.	0.2	0
12	Relationships between cerebrovascular reactivity, visual-evoked functional activity, and resting-state functional connectivity in the visual cortex and basal forebrain in glaucoma. , 2021, 2021, 4037-4040.		5
13	Auditory Scene Analysis Principles Improve Image Reconstruction Abilities of Novice Vision-to-Audio Sensory Substitution Users. , 2021, 2021, 5868-5871.		2
14	Quantitative imaging of the clearance systems in the eye and the brain. <i>Quantitative Imaging in Medicine and Surgery</i> , 2020, 10, 1-14.	1.1	12
15	Diffusion Kurtosis Imaging Reveals Optic Tract Damage That Correlates with Clinical Severity in Glaucoma. , 2020, 2020, 1746-1749.		5
16	Visual Experience influences associations between Pitch and Distance, but not Pitch and Height. <i>Journal of Vision</i> , 2020, 20, 1316.	0.1	1
17	Altered functional connectivity between the basal nucleus of Meynert and the occipital cortex in congenital blindness. <i>Journal of Vision</i> , 2020, 20, 380.	0.1	0
18	Widespread brain reorganization perturbs visuomotor coordination in early glaucoma. <i>Scientific Reports</i> , 2019, 9, 14168.	1.6	27

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19	Cholinergic nervous system and glaucoma: From basic science to clinical applications. <i>Progress in Retinal and Eye Research</i> , 2019, 72, 100767.	7.3	80
20	Intracameral injection of a chemically cross-linked hydrogel to study chronic neurodegeneration in glaucoma. <i>Acta Biomaterialia</i> , 2019, 94, 219-231.	4.1	29
21	Applications of Manganese-Enhanced Magnetic Resonance Imaging in Ophthalmology and Visual Neuroscience. <i>Frontiers in Neural Circuits</i> , 2019, 13, 35.	1.4	26
22	Matrix-bound nanovesicles prevent ischemia-induced retinal ganglion cell axon degeneration and death and preserve visual function. <i>Scientific Reports</i> , 2019, 9, 3482.	1.6	41
23	Magnetic Resonance Conditional Microinjector. <i>Journal of Imaging</i> , 2019, 5, 4.	1.7	3
24	Early Diagnosis of Spastic Cerebral Palsy in Infants with Periventricular White Matter Injury Using Diffusion Tensor Imaging. <i>American Journal of Neuroradiology</i> , 2019, 40, 162-168.	1.2	23
25	In vivo imaging of structural, metabolic and functional brain changes in glaucoma. <i>Neural Regeneration Research</i> , 2019, 14, 446.	1.6	38
26	Macroscale variation in resting-state neuronal activity and connectivity assessed by simultaneous calcium imaging, hemodynamic imaging and electrophysiology. <i>NeuroImage</i> , 2018, 169, 352-362.	2.1	29
27	Visual Restoration after Cataract Surgery Promotes Functional and Structural Brain Recovery. <i>EBioMedicine</i> , 2018, 30, 52-61.	2.7	33
28	Age-related Changes in Eye, Brain and Visuomotor Behavior in the DBA/2J Mouse Model of Chronic Glaucoma. <i>Scientific Reports</i> , 2018, 8, 4643.	1.6	27
29	Functional MRI of Sensory Substitution in the Blind. , 2018, 2018, 5519-5522.		3
30	Auditory-visual convergence at the superior colliculus in rat using functional MRI. , 2018, 2018, 5531-5536.		7
31	Spatial Patterns and Age-Related Changes of the Collagen Crimp in the Human Cornea and Sclera. , 2018, 59, 2987.		53
32	Longitudinal Assessments of Normal and Perilesional Tissues in Focal Brain Ischemia and Partial Optic Nerve Injury with Manganese-enhanced MRI. <i>Scientific Reports</i> , 2017, 7, 43124.	1.6	10
33	Whole-globe biomechanics using high-field MRI. <i>Experimental Eye Research</i> , 2017, 160, 85-95.	1.2	26
34	Global Health: Preparation for Working in Resource-Limited Settings. <i>Pediatrics</i> , 2017, 140, e20163783.	1.0	49
35	Abstract 46: Whole Eye Transplantation in the Rodent: Long-Term Survival and Effects on the Unoperated Partner Eye. <i>Plastic and Reconstructive Surgery - Global Open</i> , 2017, 5, 35-36.	0.3	3
36	Distribution of Triamcinolone Acetonide after Intravitreal Injection into Silicone Oil-Filled Eye. <i>BioMed Research International</i> , 2016, 2016, 1-9.	0.9	13

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37	In Vivo Evaluation of the Visual Pathway in Streptozotocin-Induced Diabetes by Diffusion Tensor MRI and Contrast Enhanced MRI. PLoS ONE, 2016, 11, e0165169.	1.1	14
38	MAPS – A Magic Angle Positioning System for Enhanced Imaging in High-Field Small-Bore MRI. Journal of Medical Robotics Research, 2016, 01, 1640004.	1.0	2
39	Effect of ocular reconstruction on brain function and structure in people with age-related cataracts: a prospective controlled clinical trial. Lancet, The, 2016, 388, S25.	6.3	0
40	Improved spatial accuracy of functional maps in the rat olfactory bulb using supervised machine learning approach. NeuroImage, 2016, 137, 1-8.	2.1	6
41	Non-invasive MRI Assessments of Tissue Microstructures and Macromolecules in the Eye upon Biomechanical or Biochemical Modulation. Scientific Reports, 2016, 6, 32080.	1.6	34
42	Retinal Structures and Visual Cortex Activity are Impaired Prior to Clinical Vision Loss in Glaucoma. Scientific Reports, 2016, 6, 31464.	1.6	80
43	Structural and functional correlates of visual field asymmetry in the human brain by diffusion kurtosis MRI and functional MRI. NeuroReport, 2016, 27, 1225-1231.	0.6	18
44	Top-down influence on the visual cortex of the blind during sensory substitution. NeuroImage, 2016, 125, 932-940.	2.1	34
45	In Vivo Evaluation of White Matter Integrity and Anterograde Transport in Visual System After Excitotoxic Retinal Injury With Multimodal MRI and OCT. , 2015, 56, 3788.		27
46	Structural and Functional Brain Remodeling during Pregnancy with Diffusion Tensor MRI and Resting-State Functional MRI. PLoS ONE, 2015, 10, e0144328.	1.1	22
47	Long-Term Effects of Neonatal Hypoxia-Ischemia on Structural and Physiological Integrity of the Eye and Visual Pathway by Multimodal MRI. Investigative Ophthalmology and Visual Science, 2015, 56, 1-9.	3.3	29
48	Selective Astrocytic Endothelin-1 Overexpression Contributes to Dementia Associated with Ischemic Stroke by Exaggerating Astrocyte-Derived Amyloid Secretion. Journal of Cerebral Blood Flow and Metabolism, 2015, 35, 1687-1696.	2.4	36
49	Use of sensory substitution devices as a model system for investigating cross-modal neuroplasticity in humans. Neural Regeneration Research, 2015, 10, 1717.	1.6	15
50	Successful tactile based visual sensory substitution use functions independently of visual pathway integrity. Frontiers in Human Neuroscience, 2014, 8, 291.	1.0	22
51	In Vivo Assessment of Aqueous Humor Dynamics Upon Chronic Ocular Hypertension and Hypotensive Drug Treatment Using Gadolinium-Enhanced MRI. , 2014, 55, 3747.		35
52	Magic Angle–Enhanced MRI of Fibrous Microstructures in Sclera and Cornea With and Without Intraocular Pressure Loading. , 2014, 55, 5662.		51
53	In vivo visuotopic brain mapping with manganese-enhanced MRI and resting-state functional connectivity MRI. NeuroImage, 2014, 90, 235-245.	2.1	30
54	Diffusion kurtosis imaging with tract-based spatial statistics reveals white matter alterations in preschool children. , 2012, 2012, 2298-301.		3

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55	In vivo manganese-enhanced MRI for visuotopic brain mapping. , 2012, 2012, 2279-82.		2
56	Balanced steady-state free precession fMRI with intravascular susceptibility contrast agent. Magnetic Resonance in Medicine, 2012, 68, 65-73.	1.9	25
57	Tract-based spatial statistics (TBSS): Application to detecting white matter tract variation in mild hypoxic-ischemic neonates. , 2012, 2012, 432-5.		6
58	In vivo evaluation of retinal and callosal projections in early postnatal development and plasticity using manganese-enhanced MRI and diffusion tensor imaging. NeuroImage, 2012, 59, 2274-2283.	2.1	57
59	BOLD fMRI investigation of the rat auditory pathway and tonotopic organization. NeuroImage, 2012, 60, 1205-1211.	2.1	43
60	High fidelity tonotopic mapping using swept source functional magnetic resonance imaging. NeuroImage, 2012, 61, 978-986.	2.1	26
61	Effect of cerebrovascular changes on brain DTI quantitation: a hypercapnia study. Magnetic Resonance Imaging, 2012, 30, 993-1001.	1.0	8
62	In vivo chromium-enhanced MRI of the retina. Magnetic Resonance in Medicine, 2012, 68, 1202-1210.	1.9	17
63	BOLD responses in the superior colliculus and lateral geniculate nucleus of the rat viewing an apparent motion stimulus. NeuroImage, 2011, 58, 878-884.	2.1	35
64	In vivo retinotopic mapping of superior colliculus using manganese-enhanced magnetic resonance imaging. NeuroImage, 2011, 54, 389-395.	2.1	56
65	Hippocampal neurochemistry is involved in the behavioural effects of neonatal maternal separation and their reversal by post-weaning environmental enrichment: A magnetic resonance study. Behavioural Brain Research, 2011, 217, 122-127.	1.2	81
66	Metabolic changes in visual cortex of neonatal monocular enucleated rat: a proton magnetic resonance spectroscopy study. International Journal of Developmental Neuroscience, 2011, 29, 25-30.	0.7	21
67	BOLD Temporal Dynamics of Rat Superior Colliculus and Lateral Geniculate Nucleus following Short Duration Visual Stimulation. PLoS ONE, 2011, 6, e18914.	1.1	34
68	Learning and Memory Alterations Are Associated with Hippocampal N-acetylaspartate in a Rat Model of Depression as Measured by 1H-MRS. PLoS ONE, 2011, 6, e28686.	1.1	53
69	In vivo manganese-enhanced MRI and diffusion tensor imaging of developing and impaired visual brains. , 2011, 2011, 7005-8.		4
70	IN VIVOMULTIPARAMETRIC MAGNETIC RESONANCE IMAGING AND SPECTROSCOPY OF RODENT VISUAL SYSTEM. Journal of Integrative Neuroscience, 2010, 09, 477-508.	0.8	13
71	In vivo MRI study of the visual system in normal, developing and injured rodent brains. , 2010, 2010, 5689-92.		2
72	Magnetic resonance spectroscopy of the brain under mild hypothermia indicates changes in neuroprotection-related metabolites. Neuroscience Letters, 2010, 475, 150-155.	1.0	14

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73	Adolescent escitalopram administration modifies neurochemical alterations in the hippocampus of maternally separated rats. <i>European Neuropsychopharmacology</i> , 2010, 20, 875-883.	0.3	22
74	B-value dependence of DTI quantitation and sensitivity in detecting neural tissue changes. <i>NeuroImage</i> , 2010, 49, 2366-2374.	2.1	107
75	Functional MRI of postnatal visual development in normal and hypoxicâ€“ischemic-injured superior colliculi. <i>NeuroImage</i> , 2010, 49, 2013-2020.	2.1	47
76	Functional MRI of postnatal visual development in normal rat superior colliculi. , 2009, 2009, 4436-9.		1
77	MRI of late microstructural and metabolic alterations in radiationâ€“induced brain injuries. <i>Journal of Magnetic Resonance Imaging</i> , 2009, 29, 1013-1020.	1.9	82
78	Proton magnetic resonance spectroscopy revealed choline reduction in the visual cortex in an experimental model of chronic glaucoma. <i>Experimental Eye Research</i> , 2009, 88, 65-70.	1.2	63
79	Late measures of microstructural alterations in severe neonatal hypoxicâ€“ischemic encephalopathy by MR diffusion tensor imaging. <i>International Journal of Developmental Neuroscience</i> , 2009, 27, 607-615.	0.7	56
80	Does diffusion kurtosis imaging lead to better neural tissue characterization? A rodent brain maturation study. <i>NeuroImage</i> , 2009, 45, 386-392.	2.1	241
81	In vivo MRI of endogenous stem/progenitor cell migration from subventricular zone in normal and injured developing brains. <i>NeuroImage</i> , 2009, 48, 319-328.	2.1	39
82	Measurement of common carotid artery lumen dynamics during the cardiac cycle using magnetic resonance TrueFISP cine imaging. <i>Journal of Magnetic Resonance Imaging</i> , 2008, 28, 1527-1532.	1.9	10
83	GD-DTPA enhanced MRI of ocular transport in a rat model of chronic glaucoma. <i>Experimental Eye Research</i> , 2008, 87, 334-341.	1.2	27
84	Evaluation of the retina and optic nerve in a rat model of chronic glaucoma using in vivo manganese-enhanced magnetic resonance imaging. <i>NeuroImage</i> , 2008, 40, 1166-1174.	2.1	85
85	Dynamic contrast-enhanced MRI of ocular biotransport in normal and hypertensive eyes. , 2008, 2008, 835-8.		0
86	Early detection of neurodegeneration in brain ischemia by manganese-enhanced MRI. , 2008, 2008, 3884-7.		9
87	Evaluation of the Visual System in a Rat Model of Chronic Glaucoma using Manganese-enhanced Magnetic Resonance Imaging. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2007, 2007, 67-70.	0.5	8