

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	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
2	B-value dependence of DTI quantitation and sensitivity in detecting neural tissue changes. <i>NeuroImage</i> , 2010, 49, 2366-2374.	2.1	107
3	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
4	MRI of late microstructural and metabolic alterations in radiation-induced brain injuries. <i>Journal of Magnetic Resonance Imaging</i> , 2009, 29, 1013-1020.	1.9	82
5	Hippocampal neurochemistry is involved in the behavioural effects of neonatal maternal separation and their reversal by post-weaning environmental enrichment: A magnetic resonance study. <i>Behavioural Brain Research</i> , 2011, 217, 122-127.	1.2	81
6	Retinal Structures and Visual Cortex Activity are Impaired Prior to Clinical Vision Loss in Glaucoma. <i>Scientific Reports</i> , 2016, 6, 31464.	1.6	80
7	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
8	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
9	In vivo evaluation of retinal and callosal projections in early postnatal development and plasticity using manganese-enhanced MRI and diffusion tensor imaging. <i>NeuroImage</i> , 2012, 59, 2274-2283.	2.1	57
10	Late measures of microstructural alterations in severe neonatal hypoxic-ischemic encephalopathy by MR diffusion tensor imaging. <i>International Journal of Developmental Neuroscience</i> , 2009, 27, 607-615.	0.7	56
11	In vivo retinotopic mapping of superior colliculus using manganese-enhanced magnetic resonance imaging. <i>NeuroImage</i> , 2011, 54, 389-395.	2.1	56
12	Learning and Memory Alterations Are Associated with Hippocampal N-acetylaspartate in a Rat Model of Depression as Measured by 1H-MRS. <i>PLoS ONE</i> , 2011, 6, e28686.	1.1	53
13	Spatial Patterns and Age-Related Changes of the Collagen Crimp in the Human Cornea and Sclera. , 2018, 59, 2987.		53
14	Magic Angle-Enhanced MRI of Fibrous Microstructures in Sclera and Cornea With and Without Intraocular Pressure Loading. , 2014, 55, 5662.		51
15	Global Health: Preparation for Working in Resource-Limited Settings. <i>Pediatrics</i> , 2017, 140, e20163783.	1.0	49
16	Functional MRI of postnatal visual development in normal and hypoxic-ischemic-injured superior colliculi. <i>NeuroImage</i> , 2010, 49, 2013-2020.	2.1	47
17	BOLD fMRI investigation of the rat auditory pathway and tonotopic organization. <i>NeuroImage</i> , 2012, 60, 1205-1211.	2.1	43
18	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

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19	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
20	In vivo imaging of structural, metabolic and functional brain changes in glaucoma. <i>Neural Regeneration Research</i> , 2019, 14, 446.	1.6	38
21	Selective Astrocytic Endothelin-1 Overexpression Contributes to Dementia Associated with Ischemic Stroke by Exaggerating Astrocyte-Derived Amyloid Secretion. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2015, 35, 1687-1696.	2.4	36
22	BOLD responses in the superior colliculus and lateral geniculate nucleus of the rat viewing an apparent motion stimulus. <i>NeuroImage</i> , 2011, 58, 878-884.	2.1	35
23	In Vivo Assessment of Aqueous Humor Dynamics Upon Chronic Ocular Hypertension and Hypotensive Drug Treatment Using Gadolinium-Enhanced MRI. , 2014, 55, 3747.		35
24	BOLD Temporal Dynamics of Rat Superior Colliculus and Lateral Geniculate Nucleus following Short Duration Visual Stimulation. <i>PLoS ONE</i> , 2011, 6, e18914.	1.1	34
25	Non-invasive MRI Assessments of Tissue Microstructures and Macromolecules in the Eye upon Biomechanical or Biochemical Modulation. <i>Scientific Reports</i> , 2016, 6, 32080.	1.6	34
26	Top-down influence on the visual cortex of the blind during sensory substitution. <i>NeuroImage</i> , 2016, 125, 932-940.	2.1	34
27	Visual Restoration after Cataract Surgery Promotes Functional and Structural Brain Recovery. <i>EBioMedicine</i> , 2018, 30, 52-61.	2.7	33
28	In vivo visuotopic brain mapping with manganese-enhanced MRI and resting-state functional connectivity MRI. <i>NeuroImage</i> , 2014, 90, 235-245.	2.1	30
29	Long-Term Effects of Neonatal Hypoxia-Ischemia on Structural and Physiological Integrity of the Eye and Visual Pathway by Multimodal MRI. <i>Investigative Ophthalmology and Visual Science</i> , 2015, 56, 1-9.	3.3	29
30	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
31	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
32	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
33	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
34	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
35	Widespread brain reorganization perturbs visuomotor coordination in early glaucoma. <i>Scientific Reports</i> , 2019, 9, 14168.	1.6	27
36	High fidelity tonotopic mapping using swept source functional magnetic resonance imaging. <i>NeuroImage</i> , 2012, 61, 978-986.	2.1	26

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37	Whole-globe biomechanics using high-field MRI. <i>Experimental Eye Research</i> , 2017, 160, 85-95.	1.2	26
38	Applications of Manganese-Enhanced Magnetic Resonance Imaging in Ophthalmology and Visual Neuroscience. <i>Frontiers in Neural Circuits</i> , 2019, 13, 35.	1.4	26
39	Balanced steady-state free precession fMRI with intravascular susceptibility contrast agent. <i>Magnetic Resonance in Medicine</i> , 2012, 68, 65-73.	1.9	25
40	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
41	Adolescent escitalopram administration modifies neurochemical alterations in the hippocampus of maternally separated rats. <i>European Neuropsychopharmacology</i> , 2010, 20, 875-883.	0.3	22
42	Successful tactile based visual sensory substitution use functions independently of visual pathway integrity. <i>Frontiers in Human Neuroscience</i> , 2014, 8, 291.	1.0	22
43	Structural and Functional Brain Remodeling during Pregnancy with Diffusion Tensor MRI and Resting-State Functional MRI. <i>PLoS ONE</i> , 2015, 10, e0144328.	1.1	22
44	Metabolic changes in visual cortex of neonatal monocular enucleated rat: a proton magnetic resonance spectroscopy study. <i>International Journal of Developmental Neuroscience</i> , 2011, 29, 25-30.	0.7	21
45	Structural and functional correlates of visual field asymmetry in the human brain by diffusion kurtosis MRI and functional MRI. <i>NeuroReport</i> , 2016, 27, 1225-1231.	0.6	18
46	In vivo chromium-enhanced MRI of the retina. <i>Magnetic Resonance in Medicine</i> , 2012, 68, 1202-1210.	1.9	17
47	Citicoline Modulates Glaucomatous Neurodegeneration Through Intraocular Pressure-Independent Control. <i>Neurotherapeutics</i> , 2021, 18, 1339-1359.	2.1	15
48	Use of sensory substitution devices as a model system for investigating cross-modal neuroplasticity in humans. <i>Neural Regeneration Research</i> , 2015, 10, 1717.	1.6	15
49	Magnetic resonance spectroscopy of the brain under mild hypothermia indicates changes in neuroprotection-related metabolites. <i>Neuroscience Letters</i> , 2010, 475, 150-155.	1.0	14
50	In Vivo Evaluation of the Visual Pathway in Streptozotocin-Induced Diabetes by Diffusion Tensor MRI and Contrast Enhanced MRI. <i>PLoS ONE</i> , 2016, 11, e0165169.	1.1	14
51	IN VIVOMULTIPARAMETRIC MAGNETIC RESONANCE IMAGING AND SPECTROSCOPY OF RODENT VISUAL SYSTEM. <i>Journal of Integrative Neuroscience</i> , 2010, 09, 477-508.	0.8	13
52	Distribution of Triamcinolone Acetonide after Intravitreal Injection into Silicone Oil-Filled Eye. <i>BioMed Research International</i> , 2016, 2016, 1-9.	0.9	13
53	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
54	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

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55	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
56	Early detection of neurodegeneration in brain ischemia by manganese-enhanced MRI. , 2008, 2008, 3884-7.		9
57	Role of Structural, Metabolic, and Functional <scp>MRI</scp> in Monitoring Visual System Impairment and Recovery. <i>Journal of Magnetic Resonance Imaging</i> , 2021, 54, 1706-1729.	1.9	9
58	Diffusion Tensor Imaging of Visual Pathway Abnormalities in Five Glaucoma Animal Models. , 2021, 62, 21.		9
59	Oral Scutellarin Treatment Ameliorates Retinal Thinning and Visual Deficits in Experimental Glaucoma. <i>Frontiers in Medicine</i> , 2021, 8, 681169.	1.2	9
60	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
61	Effect of cerebrovascular changes on brain DTI quantitation: a hypercapnia study. <i>Magnetic Resonance Imaging</i> , 2012, 30, 993-1001.	1.0	8
62	Glymphatic imaging and modulation of the optic nerve. <i>Neural Regeneration Research</i> , 2022, 17, 937.	1.6	8
63	Auditory-visual convergence at the superior colliculus in rat using functional MRI. , 2018, 2018, 5531-5536.		7
64	Tract-based spatial statistics (TBSS): Application to detecting white matter tract variation in mild hypoxic-ischemic neonates. , 2012, 2012, 432-5.		6
65	Improved spatial accuracy of functional maps in the rat olfactory bulb using supervised machine learning approach. <i>NeuroImage</i> , 2016, 137, 1-8.	2.1	6
66	Diffusion Kurtosis Imaging Reveals Optic Tract Damage That Correlates with Clinical Severity in Glaucoma. , 2020, 2020, 1746-1749.		5
67	Visual Plasticity in Adulthood: Perspectives from Hebbian and Homeostatic Plasticity. <i>Neuroscientist</i> , 2023, 29, 117-138.	2.6	5
68	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
69	In vivo manganese-enhanced MRI and diffusion tensor imaging of developing and impaired visual brains. , 2011, 2011, 7005-8.		4
70	Diffusion kurtosis imaging with tract-based spatial statistics reveals white matter alterations in preschool children. , 2012, 2012, 2298-301.		3
71	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
72	Functional MRI of Sensory Substitution in the Blind. , 2018, 2018, 5519-5522.		3

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73	Magnetic Resonance Conditional Microinjector. <i>Journal of Imaging</i> , 2019, 5, 4.	1.7	3
74	Advanced Diffusion MRI of the Visual System in Glaucoma: From Experimental Animal Models to Humans. <i>Biology</i> , 2022, 11, 454.	1.3	3
75	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
76	In vivo MRI study of the visual system in normal, developing and injured rodent brains. , 2010, 2010, 5689-92.		2
77	In vivo manganese-enhanced MRI for visuotopic brain mapping. , 2012, 2012, 2279-82.		2
78	MAPS – A Magic Angle Positioning System for Enhanced Imaging in High-Field Small-Bore MRI. <i>Journal of Medical Robotics Research</i> , 2016, 01, 1640004.	1.0	2
79	In vivo MRI evaluation of early postnatal development in normal and impaired rat eyes. <i>Scientific Reports</i> , 2021, 11, 15513.	1.6	2
80	Auditory Scene Analysis Principles Improve Image Reconstruction Abilities of Novice Vision-to-Audio Sensory Substitution Users. , 2021, 2021, 5868-5871.		2
81	Functional MRI of postnatal visual development in normal rat superior colliculi. , 2009, 2009, 4436-9.		1
82	Visual Experience influences associations between Pitch and Distance, but not Pitch and Height. <i>Journal of Vision</i> , 2020, 20, 1316.	0.1	1
83	Sensory integration abilities for balance in glaucoma, a preliminary study. <i>Scientific Reports</i> , 2021, 11, 19691.	1.6	1
84	Dynamic contrast-enhanced MRI of ocular biotransport in normal and hypertensive eyes. , 2008, 2008, 835-8.		0
85	Effect of ocular reconstruction on brain function and structure in people with age-related cataracts: a prospective controlled clinical trial. <i>Lancet, The</i> , 2016, 388, S25.	6.3	0
86	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
87	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