

Chris Martin

List of Publications by Year in descending order

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Version: 2024-02-01

34
papers

1,847
citations

331670

21
h-index

395702

33
g-index

34
all docs

34
docs citations

34
times ranked

2351
citing authors

#	ARTICLE	IF	CITATIONS
1	Investigating neural-hemodynamic coupling and the hemodynamic response function in the awake rat. <i>NeuroImage</i> , 2006, 32, 33-48.	4.2	236
2	Feedback control in active sensing: rat exploratory whisking is modulated by environmental contact. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2007, 274, 1035-1041.	2.6	231
3	Reversal of end-stage retinal degeneration and restoration of visual function by photoreceptor transplantation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 1101-1106.	7.1	229
4	The Hemodynamic Impulse Response to a Single Neural Event. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2003, 23, 546-555.	4.3	129
5	Fine Detail of Neurovascular Coupling Revealed by Spatiotemporal Analysis of the Hemodynamic Response to Single Whisker Stimulation in Rat Barrel Cortex. <i>Journal of Neurophysiology</i> , 2008, 99, 787-798.	1.8	119
6	Hemodynamic Response in the Unanesthetized Rat: Intrinsic Optical Imaging and Spectroscopy of the Barrel Cortex. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2002, 22, 670-679.	4.3	81
7	Is Vasomotion in Cerebral Arteries Impaired in Alzheimer's Disease?. <i>Journal of Alzheimer's Disease</i> , 2015, 46, 35-53.	2.6	73
8	CNTF Gene Therapy Confers Lifelong Neuroprotection in a Mouse Model of Human Retinitis Pigmentosa. <i>Molecular Therapy</i> , 2015, 23, 1308-1319.	8.2	66
9	Long-term restoration of visual function in end-stage retinal degeneration using subretinal human melanopsin gene therapy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 11211-11216.	7.1	62
10	A Critical Role for Astrocytes in Hypercapnic Vasodilation in Brain. <i>Journal of Neuroscience</i> , 2017, 37, 2403-2414.	3.6	58
11	Optical imaging spectroscopy in the unanaesthetised rat. <i>Journal of Neuroscience Methods</i> , 2002, 120, 25-34.	2.5	53
12	Long Duration Stimuli and Nonlinearities in the Neural-Haemodynamic Coupling. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2005, 25, 651-661.	4.3	49
13	Haemodynamic and neural responses to hypercapnia in the awake rat. <i>European Journal of Neuroscience</i> , 2006, 24, 2601-2610.	2.6	42
14	Pharmacological MRI in animal models: A useful tool for 5-HT research?. <i>Neuropharmacology</i> , 2008, 55, 1038-1047.	4.1	41
15	A systematic review of physiological methods in rodent pharmacological MRI studies. <i>Psychopharmacology</i> , 2015, 232, 489-499.	3.1	39
16	Contributions and complexities from the use of in vivo animal models to improve understanding of human neuroimaging signals. <i>Frontiers in Neuroscience</i> , 2014, 8, 211.	2.8	37
17	Long-Latency Reductions in Gamma Power Predict Hemodynamic Changes That Underlie the Negative BOLD Signal. <i>Journal of Neuroscience</i> , 2015, 35, 4641-4656.	3.6	34
18	A dynamic model of neurovascular coupling: Implications for blood vessel dilation and constriction. <i>NeuroImage</i> , 2010, 52, 1135-1147.	4.2	31

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19	Neurovascular and neuroimaging effects of the hallucinogenic serotonin receptor agonist psilocin in the rat brain. <i>Neuropharmacology</i> , 2015, 99, 210-220.	4.1	29
20	Close temporal coupling of neuronal activity and tissue oxygen responses in rodent whisker barrel cortex. <i>European Journal of Neuroscience</i> , 2011, 34, 1983-1996.	2.6	28
21	Complex spatiotemporal haemodynamic response following sensory stimulation in the awake rat. <i>NeuroImage</i> , 2013, 66, 1-8.	4.2	27
22	Structural and functional effects of metastases in rat brain determined by multimodal MRI. <i>International Journal of Cancer</i> , 2014, 134, 885-896.	5.1	25
23	Altered neurovascular coupling during information processing states. <i>European Journal of Neuroscience</i> , 2008, 27, 2758-2772.	2.6	22
24	Functional MRI in conscious rats using a chronically implanted surface coil. <i>Journal of Magnetic Resonance Imaging</i> , 2013, 38, 739-744.	3.4	20
25	STAT3-Mediated Astrocyte Reactivity Associated with Brain Metastasis Contributes to Neurovascular Dysfunction. <i>Cancer Research</i> , 2020, 80, 5642-5655.	0.9	18
26	Systemic inflammation alters central 5-HT function as determined by pharmacological MRI. <i>NeuroImage</i> , 2013, 75, 177-186.	4.2	16
27	Multi-modal assessment of neurovascular coupling during cerebral ischaemia and reperfusion using remote middle cerebral artery occlusion. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2017, 37, 2494-2508.	4.3	11
28	Acute effects of systemic inflammation upon the neuro-glial-vascular unit and cerebrovascular function. <i>Brain, Behavior, & Immunity - Health</i> , 2020, 5, 100074.	2.5	11
29	Seizure epicenter depth and translaminar field potential synchrony underlie complex variations in tissue oxygenation during ictal initiation. <i>NeuroImage</i> , 2018, 171, 165-175.	4.2	9
30	Physiological and Pathological Brain Activation in the Anesthetized Rat Produces Hemodynamic-Dependent Cortical Temperature Increases That Can Confound the BOLD fMRI Signal. <i>Frontiers in Neuroscience</i> , 2018, 12, 550.	2.8	9
31	Experimental use of nonhuman primates is not a simple problem. <i>Nature Medicine</i> , 2008, 14, 1011-1011.	30.7	6
32	Anaesthetic use in animal models for neuroimaging. <i>NeuroImage</i> , 2007, 38, 1-2.	4.2	3
33	A Dynamic Causal Model of the Coupling Between Pulse Stimulation and Neural Activity. <i>Neural Computation</i> , 2009, 21, 2846-2868.	2.2	2
34	A systematic review of physiological methods in rodent pharmacological MRI studies. , 2015, 232, 489.		1