

Hanbing Lu

List of Publications by Year in descending order

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Version: 2024-02-01

63
papers

3,290
citations

257450

24
h-index

161849

54
g-index

70
all docs

70
docs citations

70
times ranked

4578
citing authors

#	ARTICLE	IF	CITATIONS
1	High-Performance Magnetic-core Coils for Targeted Rodent Brain Stimulations. BME Frontiers, 2022, 2022, .	4.5	3
2	Medial prefrontal cortex and anteromedial thalamus interaction regulates goal-directed behavior and dopaminergic neuron activity. Nature Communications, 2022, 13, 1386.	12.8	12
3	Angle-tuned coils: attractive building blocks for TMS with improved depth-spread performance. Journal of Neural Engineering, 2022, 19, 026059.	3.5	8
4	A high-density theta burst paradigm enhances the aftereffects of transcranial magnetic stimulation: Evidence from focal stimulation of rat motor cortex. Brain Stimulation, 2022, 15, 833-842.	1.6	6
5	Whole brain dynamics during optogenetic self-stimulation of the medial prefrontal cortex in mice. Communications Biology, 2021, 4, 66.	4.4	19
6	Supramammillary neurons projecting to the septum regulate dopamine and motivation for environmental interaction in mice. Nature Communications, 2021, 12, 2811.	12.8	16
7	Acquisition of Resting-State Functional Magnetic Resonance Imaging Data in the Rat. Journal of Visualized Experiments, 2021, , .	0.3	1
8	Orbitofrontal cortex and dorsal striatum functional connectivity predicts incubation of opioid craving after voluntary abstinence. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	13
9	Focal transcranial magnetic stimulation in awake rats: Enhanced glucose uptake in deep cortical layers. Journal of Neuroscience Methods, 2020, 339, 108709.	2.5	11
10	Converging Structural and Functional Evidence for a Rat Salience Network. Biological Psychiatry, 2020, 88, 867-878.	1.3	51
11	Intrinsic differences in insular circuits moderate the negative association between nicotine dependence and cingulate-striatal connectivity strength. Neuropsychopharmacology, 2020, 45, 1042-1049.	5.4	14
12	Functional Connectivity of Hippocampal CA3 Predicts Neurocognitive Aging via CA1 Frontal Circuit. Cerebral Cortex, 2020, 30, 4297-4305.	2.9	12
13	Physiological Considerations of Functional Magnetic Resonance Imaging in Animal Models. Biological Psychiatry: Cognitive Neuroscience and Neuroimaging, 2019, 4, 522-532.	1.5	13
14	A flared-end gradient coil with outer-wall direct cooling for human brain imaging: A feasibility study. Magnetic Resonance Imaging, 2019, 62, 191-198.	1.8	1
15	Origins of the Resting-State Functional MRI Signal: Potential Limitations of the Neurocentric Model. Frontiers in Neuroscience, 2019, 13, 1136.	2.8	32
16	Compulsive drug use is associated with imbalance of orbitofrontal- and prelimbic-striatal circuits in punishment-resistant individuals. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 9066-9071.	7.1	66
17	Intrinsic Insular-Frontal Networks Predict Future Nicotine Dependence Severity. Journal of Neuroscience, 2019, 39, 5028-5037.	3.6	18
18	Differential expression of nicotine withdrawal as a function of developmental age in the rat. Pharmacology Biochemistry and Behavior, 2019, 187, 172802.	2.9	3

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19	Delta Rhythm Orchestrates the Neural Activity Underlying the Resting State BOLD Signal via Phaseâ€“amplitude Coupling. <i>Cerebral Cortex</i> , 2019, 29, 119-133.	2.9	28
20	Heroin addiction engages negative emotional learning brain circuits in rats. <i>Journal of Clinical Investigation</i> , 2019, 129, 2480-2484.	8.2	35
21	A novel transcranial magnetic stimulator for focal stimulation of rodentâ€“brain. <i>Brain Stimulation</i> , 2018, 11, 663-665.	1.6	20
22	Development of Focused Transcranial Magnetic Stimulation for Rodents by Copper-Array Shields. <i>IEEE Transactions on Magnetics</i> , 2018, 54, 1-4.	2.1	8
23	The Rich-Club Organization in Rat Functional Brain Network to Balance Between Communication Cost and Efficiency. <i>Cerebral Cortex</i> , 2018, 28, 924-935.	2.9	43
24	Longitudinal observations using simultaneous fMRI, multiple channel electrophysiology recording, and chemical microiontophoresis in the rat brain. <i>Journal of Neuroscience Methods</i> , 2018, 306, 68-76.	2.5	9
25	Brain regional synchronous activity predicts tauopathy in 3 β -TgAD mice. <i>Neurobiology of Aging</i> , 2018, 70, 160-169.	3.1	21
26	Neurophysiological Basis of Multi-Scale Entropy of Brain Complexity and Its Relationship With Functional Connectivity. <i>Frontiers in Neuroscience</i> , 2018, 12, 352.	2.8	90
27	Anesthesia with Dexmedetomidine and Low-dose Isoflurane Increases Solute Transport <i>via</i> the Glymphatic Pathway in Rat Brain When Compared with High-dose Isoflurane. <i>Anesthesiology</i> , 2017, 127, 976-988.	2.5	144
28	Physiological characterization of a robust survival rodent fMRI method. <i>Magnetic Resonance Imaging</i> , 2017, 35, 54-60.	1.8	46
29	Resting-state functional MRI reveals altered brain connectivity and its correlation with motor dysfunction in a mouse model of Huntingtonâ€“s disease. <i>Scientific Reports</i> , 2017, 7, 16742.	3.3	21
30	Low- but Not High-Frequency LFP Correlates with Spontaneous BOLD Fluctuations in Rat Whisker Barrel Cortex. <i>Cerebral Cortex</i> , 2016, 26, bhu248.	2.9	30
31	A novel method to induce nicotine dependence by intermittent drug delivery using osmotic minipumps. <i>Pharmacology Biochemistry and Behavior</i> , 2016, 142, 79-84.	2.9	13
32	Functional connectivity with the retrosplenial cortex predicts cognitive aging in rats. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 12286-12291.	7.1	69
33	Constituents and functional implications of the rat default mode network. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E4541-7.	7.1	90
34	Manganese-Enhanced MRI Reflects Both Activity-Independent and Activity-Dependent Uptake within the Rat Habenulomesencephalic Pathway. <i>PLoS ONE</i> , 2015, 10, e0127773.	2.5	8
35	Abstinence from Cocaine and Sucrose Self-Administration Reveals Altered Mesocorticolimbic Circuit Connectivity by Resting State MRI. <i>Brain Connectivity</i> , 2014, 4, 499-510.	1.7	31
36	Octopus visual system: A functional MRI model for detecting neuronal electric currents without a bloodâ€“oxygenâ€“levelâ€“dependent confound. <i>Magnetic Resonance in Medicine</i> , 2014, 72, 1311-1319.	3.0	14

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37	Resting state functional connectivity: Its physiological basis and application in neuropharmacology. <i>Neuropharmacology</i> , 2014, 84, 79-89.	4.1	53
38	Introduction to the special issue on neuroimaging in neuropharmacology. <i>Neuropharmacology</i> , 2014, 84, 63-64.	4.1	1
39	Large-Scale Brain Networks in the Awake, Truly Resting Marmoset Monkey. <i>Journal of Neuroscience</i> , 2013, 33, 16796-16804.	3.6	133
40	Cocaine and Amphetamine Neuroimaging in Small Rodents. , 2013, , 699-710.		0
41	Dorsolateral caudate nucleus differentiates cocaine from natural reward-associated contextual cues. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 4093-4098.	7.1	21
42	Rat brains also have a default mode network. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 3979-3984.	7.1	509
43	TE-dependent spatial and spectral specificity of functional connectivity. <i>NeuroImage</i> , 2012, 59, 3075-3084.	4.2	13
44	fMRI response in the medial prefrontal cortex predicts cocaine but not sucrose self-administration history. <i>NeuroImage</i> , 2012, 62, 1857-1866.	4.2	19
45	Post-treatment with amphetamine enhances reinnervation of the ipsilateral side cortex in stroke rats. <i>NeuroImage</i> , 2011, 56, 280-289.	4.2	39
46	Acute Nicotine-Induced Tachyphylaxis Is Differentially Manifest in the Limbic System. <i>Neuropsychopharmacology</i> , 2011, 36, 2498-2512.	5.4	12
47	High-field continuous arterial spin labeling with long labeling duration: Reduced confounds from blood transit time and postlabeling delay. <i>Magnetic Resonance in Medicine</i> , 2010, 64, 1557-1566.	3.0	10
48	Registering and analyzing rat fMRI data in the stereotaxic framework by exploiting intrinsic anatomical features. <i>Magnetic Resonance Imaging</i> , 2010, 28, 146-152.	1.8	44
49	Comparison of visually evoked local field potentials in isolated turtle brain: Patterned versus blank stimulation. <i>Journal of Neuroscience Methods</i> , 2010, 187, 26-32.	2.5	3
50	Temporary disruption of the rat blood-brain barrier with a monoclonal antibody: A novel method for dynamic manganese-enhanced MRI. <i>NeuroImage</i> , 2010, 50, 7-14.	4.2	16
51	Magnetic Resonance Imaging of Pharmacological Systems. , 2010, , 91-104.		0
52	Mapping functional connectivity based on synchronized CMRO2 fluctuations during the resting state. <i>NeuroImage</i> , 2009, 45, 694-701.	4.2	62
53	Physiologically evoked neuronal current MRI in a bloodless turtle brain: Detectable or not?. <i>NeuroImage</i> , 2009, 47, 1268-1276.	4.2	33
54	Real-time animal functional magnetic resonance imaging and its application to neuropharmacological studies. <i>Magnetic Resonance Imaging</i> , 2008, 26, 1266-1272.	1.8	13

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55	Frequency specificity of functional connectivity in brain networks. <i>NeuroImage</i> , 2008, 42, 1047-1055.	4.2	141
56	Cocaine-induced brain activation detected by dynamic manganese-enhanced magnetic resonance imaging (MEMRI). <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 2489-2494.	7.1	107
57	Synchronized delta oscillations correlate with the resting-state functional MRI signal. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 18265-18269.	7.1	409
58	Quantifying the blood oxygenation level dependent effect in cerebral blood volume-weighted functional MRI at 9.4T. <i>Magnetic Resonance in Medicine</i> , 2007, 58, 616-621.	3.0	34
59	Temporal evolution of the CBV-fMRI signal to rat whisker stimulation of variable duration and intensity: A linearity analysis. <i>NeuroImage</i> , 2005, 26, 432-440.	4.2	35
60	Momentum-weighted conjugate gradient descent algorithm for gradient coil optimization. <i>Magnetic Resonance in Medicine</i> , 2004, 51, 158-164.	3.0	9
61	Spatial correlations of laminar BOLD and CBV responses to rat whisker stimulation with neuronal activity localized by Fos expression. <i>Magnetic Resonance in Medicine</i> , 2004, 52, 1060-1068.	3.0	114
62	Characterization of continuously distributed cortical water diffusion rates with a stretched-exponential model. <i>Magnetic Resonance in Medicine</i> , 2003, 50, 727-734.	3.0	409
63	Multishot partial-k-space EPI for high-resolution fMRI demonstrated in a rat whisker barrel stimulation model at 3t. <i>Magnetic Resonance in Medicine</i> , 2003, 50, 1215-1222.	3.0	22