

Basavaraju G Sangannahalli

List of Publications by Year in descending order

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Version: 2024-02-01

53
papers

1,703
citations

279798

23
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302126

39
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all docs

55
docs citations

55
times ranked

2193
citing authors

#	ARTICLE	IF	CITATIONS
1	The Stroke Preclinical Assessment Network: Rationale, Design, Feasibility, and Stage 1 Results. <i>Stroke</i> , 2022, 53, 1802-1812.	2.0	22
2	Thalamic activations in rat brain by fMRI during tactile (forepaw, whisker) and non-tactile (visual,) Tj ETQq0 0 0 rgBTJ Overlock 10 Tf 50	2.5	3
3	Small loci of astroglial glutamine synthetase deficiency in the postnatal brain cause epileptic seizures and impaired functional connectivity. <i>Epilepsia</i> , 2021, 62, 2858-2870.	5.1	7
4	Supraspinal Sensorimotor and Pain-Related Reorganization after a Hemicontusion Rat Cervical Spinal Cord Injury. <i>Journal of Neurotrauma</i> , 2021, 38, 3393-3405.	3.4	8
5	Kaempferol Treatment after Traumatic Brain Injury during Early Development Mitigates Brain Parenchymal Microstructure and Neural Functional Connectivity Deterioration at Adolescence. <i>Journal of Neurotrauma</i> , 2020, 37, 966-974.	3.4	15
6	Association Between Magnetic Resonance Imaging-Based Spinal Morphometry and Sensorimotor Behavior in a Hemicontusion Model of Incomplete Cervical Spinal Cord Injury in Rats. <i>Brain Connectivity</i> , 2020, 10, 479-489.	1.7	5
7	APOE genotype-dependent pharmacogenetic responses to rapamycin for preventing Alzheimer's disease. <i>Neurobiology of Disease</i> , 2020, 139, 104834.	4.4	26
8	Orthonasal versus retronasal glomerular activity in rat olfactory bulb by fMRI. <i>NeuroImage</i> , 2020, 212, 116664.	4.2	19
9	Alterations of Parenchymal Microstructure, Neuronal Connectivity, and Cerebrovascular Resistance at Adolescence after Mild-to-Moderate Traumatic Brain Injury in Early Development. <i>Journal of Neurotrauma</i> , 2019, 36, 601-608.	3.4	11
10	Spontaneous activity forms a foundation for odor-evoked activation maps in the rat olfactory bulb. <i>NeuroImage</i> , 2018, 172, 586-596.	4.2	6
11	Hypofrontality and Posterior Hyperactivity in Early Schizophrenia: Imaging and Behavior in a Preclinical Model. <i>Biological Psychiatry</i> , 2017, 81, 503-513.	1.3	22
12	Metabolic demands of neural-hemodynamic associated and disassociated areas in brain. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2016, 36, 1695-1707.	4.3	24
13	New horizons in neurometabolic and neurovascular coupling from calibrated fMRI. <i>Progress in Brain Research</i> , 2016, 225, 99-122.	1.4	19
14	Comparison of glomerular activity patterns by fMRI and wide-field calcium imaging: Implications for principles underlying odor mapping. <i>NeuroImage</i> , 2016, 126, 208-218.	4.2	19
15	Quantitative \hat{I}^2 mapping for calibrated fMRI. <i>NeuroImage</i> , 2016, 126, 219-228.	4.2	24
16	Brain region and activity-dependent properties of M for calibrated fMRI. <i>NeuroImage</i> , 2016, 125, 848-856.	4.2	26
17	Afatinib plus Cetuximab Delays Resistance Compared to Single-Agent Erlotinib or Afatinib in Mouse Models of TKI-Na ⁺ ve EGFR L858R-Induced Lung Adenocarcinoma. <i>Clinical Cancer Research</i> , 2016, 22, 426-435.	7.0	46
18	Distribution of temperature changes and neurovascular coupling in rat brain following 3,4-methylenedioxymethamphetamine (MDMA, "ecstasy") exposure. <i>NMR in Biomedicine</i> , 2015, 28, 1257-1266.	2.8	14

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19	Role of mitochondrial calcium uptake homeostasis in resting state fMRI brain networks. NMR in Biomedicine, 2015, 28, 1579-1588.	2.8	14
20	Distributions of Irritative Zones Are Related to Individual Alterations of Resting-State Networks in Focal Epilepsy. PLoS ONE, 2015, 10, e0134352.	2.5	12
21	Decreased Subcortical Cholinergic Arousal in Focal Seizures. Neuron, 2015, 85, 561-572.	8.1	99
22	Rhythmic 3-4Hz discharge is insufficient to produce cortical BOLD fMRI decreases in generalized seizures. NeuroImage, 2015, 109, 368-377.	4.2	11
23	Decreased Resting Functional Connectivity after Traumatic Brain Injury in the Rat. PLoS ONE, 2014, 9, e95280.	2.5	54
24	DYNAMIC Multi-coil TEchnique (DYNAMITE) shimming of the rat brain at 11.7T. NMR in Biomedicine, 2014, 27, 897-906.	2.8	30
25	Mapping phosphorylation rate of fluoro-deoxy-glucose in rat brain by 19F chemical shift imaging. Magnetic Resonance Imaging, 2014, 32, 305-313.	1.8	6
26	Functional MRI and neural responses in a rat model of Alzheimer's disease. NeuroImage, 2013, 79, 404-411.	4.2	29
27	Mitochondrial Calcium Uptake Capacity Modulates Neocortical Excitability. Journal of Cerebral Blood Flow and Metabolism, 2013, 33, 1115-1126.	4.3	38
28	Analysis of Time and Space Invariance of BOLD Responses in the Rat Visual System. Cerebral Cortex, 2013, 23, 210-222.	2.9	28
29	Quantitative basis for neuroimaging of cortical laminae with calibrated functional MRI. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 15115-15120.	7.1	57
30	Increased resting functional connectivity in spike-wave epilepsy in WAG/Rij rats. Epilepsia, 2013, 54, 1214-1222.	5.1	39
31	Mitochondrial Functional State Impacts Spontaneous Neocortical Activity and Resting State fMRI. PLoS ONE, 2013, 8, e63317.	2.5	24
32	Lactate preserves neuronal metabolism and function following antecedent recurrent hypoglycemia. Journal of Clinical Investigation, 2013, 123, 1988-1998.	8.2	80
33	Pitfalls in fractal time series analysis: fMRI BOLD as an exemplary case. Frontiers in Physiology, 2012, 3, 417.	2.8	52
34	Fractal analysis of spontaneous fluctuations of the BOLD signal in rat brain. NeuroImage, 2011, 58, 1060-1069.	4.2	48
35	Role of Ongoing, Intrinsic Activity of Neuronal Populations for Quantitative Neuroimaging of Functional Magnetic Resonance Imaging-Based Networks. Brain Connectivity, 2011, 1, 185-193.	1.7	12
36	Where fMRI and Electrophysiology Agree to Disagree: Corticothalamic and Striatal Activity Patterns in the WAG/Rij Rat. Journal of Neuroscience, 2011, 31, 15053-15064.	3.6	115

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37	Neurovascular and neurometabolic couplings in dynamic calibrated fMRI: transient oxidative neuroenergetics for block-design and event-related paradigms. <i>Frontiers in Neuroenergetics</i> , 2010, 2, .	5.3	31
38	Oxidative Neuroenergetics in Event-Related Paradigms. <i>Journal of Neuroscience</i> , 2009, 29, 1707-1718.	3.6	62
39	Multimodal Measurements of Blood Plasma and Red Blood Cell Volumes during Functional Brain Activation. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2009, 29, 19-24.	4.3	29
40	Cerebral oxygen demand for short-lived and steady-state events. <i>Journal of Neurochemistry</i> , 2009, 109, 73-79.	3.9	35
41	Tactile and Non-tactile Sensory Paradigms for fMRI and Neurophysiologic Studies in Rodents. <i>Methods in Molecular Biology</i> , 2009, 489, 213-242.	0.9	26
42	Frequency-dependent tactile responses in rat brain measured by functional MRI. <i>NMR in Biomedicine</i> , 2008, 21, 410-416.	2.8	45
43	Negative BOLD with Large Increases in Neuronal Activity. <i>Cerebral Cortex</i> , 2008, 18, 1814-1827.	2.9	207
44	Energetics of neuronal signaling and fMRI activity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 20546-20551.	7.1	121
45	NMDA and non-NMDA receptors stimulation causes differential oxidative stress in rat cortical slices. <i>Neurochemistry International</i> , 2006, 49, 475-480.	3.8	13
46	Xanthine oxidase, nitric oxide synthase and phospholipase A2 produce reactive oxygen species via mitochondria. <i>Brain Research</i> , 2005, 1037, 200-203.	2.2	18
47	Fractal correlation structure in fMRI data of rat brain. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2005, 25, S379-S379.	4.3	1
48	Effects of isoflurane induction on inter-animal reproducibility. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2005, 25, S397-S397.	4.3	0
49	Effects of volatile agents on neurophysiology in $\hat{\pm}$ -chloralose anesthetized rats. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2005, 25, S200-S200.	4.3	0
50	Volatile induction agents affect adaptation in $\hat{\pm}$ -chloralose anesthetized rat. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2005, 25, S401-S401.	4.3	0
51	Influence of volatile induction agents on fMRI and neural activity. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2005, 25, S395-S395.	4.3	1
52	Glutamate-induced differential mitochondrial response in young and adult rats. <i>Neurochemistry International</i> , 2004, 44, 361-369.	3.8	23
53	Differential effects of tricyclic antidepressant drugs on membrane dynamics—a fluorescence spectroscopic study. <i>Life Sciences</i> , 2000, 68, 81-90.	4.3	20