

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
h-index

302126

39
g-index

55
all docs

55
docs citations

55
times ranked

2193
citing authors

#	ARTICLE	IF	CITATIONS
1	Negative BOLD with Large Increases in Neuronal Activity. <i>Cerebral Cortex</i> , 2008, 18, 1814-1827.	2.9	207
2	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
3	Where fMRI and Electrophysiology Agree to Disagree: Corticothalamic and Striatal Activity Patterns in the WAG/Rij Rat. <i>Journal of Neuroscience</i> , 2011, 31, 15053-15064.	3.6	115
4	Decreased Subcortical Cholinergic Arousal in Focal Seizures. <i>Neuron</i> , 2015, 85, 561-572.	8.1	99
5	Lactate preserves neuronal metabolism and function following antecedent recurrent hypoglycemia. <i>Journal of Clinical Investigation</i> , 2013, 123, 1988-1998.	8.2	80
6	Oxidative Neuroenergetics in Event-Related Paradigms. <i>Journal of Neuroscience</i> , 2009, 29, 1707-1718.	3.6	62
7	Quantitative basis for neuroimaging of cortical laminae with calibrated functional MRI. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 15115-15120.	7.1	57
8	Decreased Resting Functional Connectivity after Traumatic Brain Injury in the Rat. <i>PLoS ONE</i> , 2014, 9, e95280.	2.5	54
9	Pitfalls in fractal time series analysis: fMRI BOLD as an exemplary case. <i>Frontiers in Physiology</i> , 2012, 3, 417.	2.8	52
10	Fractal analysis of spontaneous fluctuations of the BOLD signal in rat brain. <i>NeuroImage</i> , 2011, 58, 1060-1069.	4.2	48
11	Afatinib plus Cetuximab Delays Resistance Compared to Single-Agent Erlotinib or Afatinib in Mouse Models of TKI-Naïve EGFR L858R-Induced Lung Adenocarcinoma. <i>Clinical Cancer Research</i> , 2016, 22, 426-435.	7.0	46
12	Frequency-dependent tactile responses in rat brain measured by functional MRI. <i>NMR in Biomedicine</i> , 2008, 21, 410-416.	2.8	45
13	Increased resting functional connectivity in spike-wave epilepsy in WAG/Rij rats. <i>Epilepsia</i> , 2013, 54, 1214-1222.	5.1	39
14	Mitochondrial Calcium Uptake Capacity Modulates Neocortical Excitability. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2013, 33, 1115-1126.	4.3	38
15	Cerebral oxygen demand for short-lived and steady-state events. <i>Journal of Neurochemistry</i> , 2009, 109, 73-79.	3.9	35
16	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
17	DYNAMIC Multi-coil Technique (DYNAMITE) shimming of the rat brain at 11.7%T. <i>NMR in Biomedicine</i> , 2014, 27, 897-906.	2.8	30
18	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

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19	Functional MRI and neural responses in a rat model of Alzheimer's disease. <i>NeuroImage</i> , 2013, 79, 404-411.	4.2	29
20	Analysis of Time and Space Invariance of BOLD Responses in the Rat Visual System. <i>Cerebral Cortex</i> , 2013, 23, 210-222.	2.9	28
21	Brain region and activity-dependent properties of M for calibrated fMRI. <i>NeuroImage</i> , 2016, 125, 848-856.	4.2	26
22	APOE genotype-dependent pharmacogenetic responses to rapamycin for preventing Alzheimer's disease. <i>Neurobiology of Disease</i> , 2020, 139, 104834.	4.4	26
23	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
24	Mitochondrial Functional State Impacts Spontaneous Neocortical Activity and Resting State fMRI. <i>PLoS ONE</i> , 2013, 8, e63317.	2.5	24
25	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
26	Quantitative \hat{I}^2 mapping for calibrated fMRI. <i>NeuroImage</i> , 2016, 126, 219-228.	4.2	24
27	Glutamate-induced differential mitochondrial response in young and adult rats. <i>Neurochemistry International</i> , 2004, 44, 361-369.	3.8	23
28	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
29	The Stroke Preclinical Assessment Network: Rationale, Design, Feasibility, and Stage 1 Results. <i>Stroke</i> , 2022, 53, 1802-1812.	2.0	22
30	Differential effects of tricyclic antidepressant drugs on membrane dynamics—a fluorescence spectroscopic study. <i>Life Sciences</i> , 2000, 68, 81-90.	4.3	20
31	New horizons in neurometabolic and neurovascular coupling from calibrated fMRI. <i>Progress in Brain Research</i> , 2016, 225, 99-122.	1.4	19
32	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
33	Orthonasal versus retronasal glomerular activity in rat olfactory bulb by fMRI. <i>NeuroImage</i> , 2020, 212, 116664.	4.2	19
34	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
35	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
36	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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37	Role of mitochondrial calcium uptake homeostasis in resting state fMRI brain networks. <i>NMR in Biomedicine</i> , 2015, 28, 1579-1588.	2.8	14
38	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
39	Role of Ongoing, Intrinsic Activity of Neuronal Populations for Quantitative Neuroimaging of Functional Magnetic Resonance Imaging-Based Networks. <i>Brain Connectivity</i> , 2011, 1, 185-193.	1.7	12
40	Distributions of Irritative Zones Are Related to Individual Alterations of Resting-State Networks in Focal Epilepsy. <i>PLoS ONE</i> , 2015, 10, e0134352.	2.5	12
41	Rhythmic 3-4Hz discharge is insufficient to produce cortical BOLD fMRI decreases in generalized seizures. <i>NeuroImage</i> , 2015, 109, 368-377.	4.2	11
42	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
43	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
44	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
45	Mapping phosphorylation rate of fluoro-deoxy-glucose in rat brain by 19F chemical shift imaging. <i>Magnetic Resonance Imaging</i> , 2014, 32, 305-313.	1.8	6
46	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
47	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
48	Thalamic activations in rat brain by fMRI during tactile (forepaw, whisker) and non-tactile (visual,) Tj ETQq0 0 0 rgBTj Overlock 10 Tf 50 3	2.5	3
49	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
50	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
51	Effects of isoflurane induction on inter-animal reproducibility. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2005, 25, S397-S397.	4.3	0
52	Effects of volatile agents on neurophysiology in $\hat{1}\pm$ -chloralose anesthetized rats. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2005, 25, S200-S200.	4.3	0
53	Volatile induction agents affect adaptation in $\hat{1}\pm$ -chloralose anesthetized rat. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2005, 25, S401-S401.	4.3	0