

Rodolfo Gatto

List of Publications by Year in descending order

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Version: 2024-02-01

40
papers

840
citations

516710

16
h-index

501196

28
g-index

41
all docs

41
docs citations

41
times ranked

1094
citing authors

#	ARTICLE	IF	CITATIONS
1	Inhibition of Fast Axonal Transport by Pathogenic SOD1 Involves Activation of p38 MAP Kinase. <i>PLoS ONE</i> , 2013, 8, e65235.	2.5	100
2	A novel method for extracting respiration rate and relative tidal volume from infrared thermography. <i>Psychophysiology</i> , 2011, 48, 877-887.	2.4	95
3	A fractal derivative model for the characterization of anomalous diffusion in magnetic resonance imaging. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2016, 39, 529-537.	3.3	93
4	Analysis of YFP¹⁶-R6/2 reporter mice and postmortem brains reveals early pathology and increased vulnerability of callosal axons in Huntington's disease. <i>Human Molecular Genetics</i> , 2015, 24, 5285-5298.	2.9	48
5	ALS-linked FUS exerts a gain of toxic function involving aberrant p38 MAPK activation. <i>Scientific Reports</i> , 2017, 7, 115.	3.3	45
6	Frequency domain near-infrared spectroscopy technique in the assessment of brain oxygenation: A validation study in live subjects and cadavers. <i>Journal of Neuroscience Methods</i> , 2006, 157, 274-277.	2.5	43
7	The Utility of Intraoperative Blood Flow Measurement During Aneurysm Surgery Using an Ultrasonic Perivascular Flow Probe. <i>Operative Neurosurgery</i> , 2006, 58, ONS-305-ONS-312.	0.8	39
8	Synergistic benefits of erythropoietin and simvastatin after traumatic brain injury. <i>Brain Research</i> , 2010, 1360, 177-192.	2.2	39
9	Neuroanatomical correlation of behavioral deficits in the CCI model of TBI. <i>Journal of Neuroscience Methods</i> , 2010, 190, 1-9.	2.5	31
10	THE UTILITY OF INTRAOPERATIVE BLOOD FLOW MEASUREMENT DURING ANEURYSM SURGERY USING AN ULTRASONIC PERIVASCULAR FLOW PROBE. <i>Neurosurgery</i> , 2008, 62, SHC1346-SHC1353.	1.1	30
11	Detection of axonal degeneration in a mouse model of Huntington's disease: comparison between diffusion tensor imaging and anomalous diffusion metrics. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2019, 32, 461-471.	2.0	28
12	Unveiling early cortical and subcortical neuronal degeneration in ALS mice by ultra-high field diffusion MRI. <i>Amyotrophic Lateral Sclerosis and Frontotemporal Degeneration</i> , 2019, 20, 549-561.	1.7	25
13	Restoration of cognitive deficits after statin feeding in TBI. <i>Restorative Neurology and Neuroscience</i> , 2011, 29, 23-34.	0.7	24
14	Ultra-High Field Diffusion MRI Reveals Early Axonal Pathology in Spinal Cord of ALS mice. <i>Translational Neurodegeneration</i> , 2018, 7, 20.	8.0	21
15	Neurite orientation dispersion and density imaging can detect presymptomatic axonal degeneration in the spinal cord of ALS mice. <i>Functional Neurology</i> , 2018, 33, 155-163.	1.3	18
16	Diffusion tensor imaging identifies presymptomatic axonal degeneration in the spinal cord of ALS mice. <i>Brain Research</i> , 2018, 1679, 45-52.	2.2	17
17	<i>In vivo</i> diffusion MRI detects early spinal cord axonal pathology in a mouse model of amyotrophic lateral sclerosis. <i>NMR in Biomedicine</i> , 2018, 31, e3954.	2.8	16
18	Age effects on brain oxygenation during hypercapnia. <i>Journal of Biomedical Optics</i> , 2007, 12, 062113.	2.6	15

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19	Evaluation of early microstructural changes in the R6/1 mouse model of Huntington's disease by ultra-high field diffusion MR imaging. <i>Neurobiology of Aging</i> , 2021, 102, 32-49.	3.1	15
20	Anti-edema effects of rhEpo in experimental traumatic brain injury. <i>Restorative Neurology and Neuroscience</i> , 2015, 33, 927-941.	0.7	14
21	Diffusion Tensor Imaging in Preclinical and Human Studies of Huntington's Disease: What Have we Learned so Far?. <i>Current Medical Imaging</i> , 2019, 15, 521-542.	0.8	14
22	Molecular and microstructural biomarkers of neuroplasticity in neurodegenerative disorders through preclinical and diffusion magnetic resonance imaging studies. <i>Journal of Integrative Neuroscience</i> , 2020, 19, 571.	1.7	12
23	Effect of age on brain oxygenation regulation during changes in position. <i>Journal of Neuroscience Methods</i> , 2007, 164, 308-311.	2.5	10
24	Upregulation of ASIC1a channels in an in vitro model of Fabry disease. <i>Neurochemistry International</i> , 2020, 140, 104824.	3.8	8
25	Diffusion tractography of superior cerebellar peduncle and dentatorubrothalamic tracts in two autopsy confirmed progressive supranuclear palsy variants: Richardson syndrome and the speech-language variant. <i>NeuroImage: Clinical</i> , 2022, 35, 103030.	2.7	8
26	Increased brain oxygenation during intubation-related stress. <i>European Journal of Anaesthesiology</i> , 2007, 24, 1016-1020.	1.7	6
27	Diffusion tensor imaging as a tool to detect presymptomatic axonal degeneration in a preclinical spinal cord model of amyotrophic lateral sclerosis. <i>Neural Regeneration Research</i> , 2018, 13, 425.	3.0	6
28	Multicomponent diffusion analysis reveals microstructural alterations in spinal cord of a mouse model of amyotrophic lateral sclerosis ex vivo. <i>PLoS ONE</i> , 2020, 15, e0231598.	2.5	5
29	Assessing neuraxial microstructural changes in a transgenic mouse model of early stage Amyotrophic Lateral Sclerosis by ultra-high field MRI and diffusion tensor metrics. <i>Animal Models and Experimental Medicine</i> , 2020, 3, 117-129.	3.3	4
30	Preliminary examination of early neuroconnectivity features in the R6/1 mouse model of Huntington's disease by ultra-high field diffusion MRI. <i>Neural Regeneration Research</i> , 2022, 17, 983.	3.0	4
31	Editorial for "Evaluating the Therapeutic Effect of Low-Intensity Transcranial Ultrasound on Traumatic Brain Injury With Diffusion Kurtosis Imaging". <i>Journal of Magnetic Resonance Imaging</i> , 2020, 52, 532-533.	3.4	2
32	Optical microprobe for blood clot detection. , 2006, , .		2
33	New molecular insights, innovative technologies, and medical approaches in the "Exploration of mechanisms in cortical plasticity". <i>Journal of Integrative Neuroscience</i> , 2020, 19, 733.	1.7	1
34	Dynamic Distribution of ASIC1a Channels and Other Proteins within Cells Detected through Fractionation. <i>Membranes</i> , 2022, 12, 389.	3.0	1
35	Editorial: Innovative Imaging Techniques in Preclinical Models of Neurodegenerative Diseases. <i>Frontiers in Neuroscience</i> , 2021, 15, 801037.	2.8	1
36	Non-Invasive Cerebral Blood Volume Monitoring In Awake Subjects By Near-Infrared Spectroscopy. <i>Journal of Neurosurgical Anesthesiology</i> , 2006, 18, 324-325.	1.2	0

#	ARTICLE	IF	CITATIONS
37	P2-003: EFFICIENT BRAIN UPTAKE OF NEUROTHERAPEUTICS AFTER INTRANASAL DELIVERY IN MICE. , 2014, 10, P471-P472.		0
38	Blood flow measurements and clot detection with nearinfrared spectroscopy. , 2006, , .		0
39	Dexmedetomidine Effects on Brain Tissue Oxygenation Measured by Frequency Domain Near Infrared Spectroscopy. Internet Journal of Neuromonitoring, 2007, 5, .	0.2	0
40	Editorial: Translatable Models and MRI Methods for Neurodegenerative Diseases. Frontiers in Neuroscience, 2022, 16, .	2.8	0