

Renaud Blaise Jolivet

List of Publications by Year in descending order

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Version: 2024-02-01

30
papers

3,402
citations

331670

21
h-index

501196

28
g-index

38
all docs

38
docs citations

38
times ranked

5117
citing authors

#	ARTICLE	IF	CITATIONS
1	Synaptic Energy Use and Supply. <i>Neuron</i> , 2012, 75, 762-777.	8.1	1,209
2	<i>In Vivo</i> Evidence for Lactate as a Neuronal Energy Source. <i>Journal of Neuroscience</i> , 2011, 31, 7477-7485.	3.6	353
3	Microglial Ramification, Surveillance, and Interleukin-1 β Release Are Regulated by the Two-Pore Domain K ⁺ Channel THIK-1. <i>Neuron</i> , 2018, 97, 299-312.e6.	8.1	323
4	Predicting spike timing of neocortical pyramidal neurons by simple threshold models. <i>Journal of Computational Neuroscience</i> , 2006, 21, 35-49.	1.0	246
5	Generalized Integrate-and-Fire Models of Neuronal Activity Approximate Spike Trains of a Detailed Model to a High Degree of Accuracy. <i>Journal of Neurophysiology</i> , 2004, 92, 959-976.	1.8	233
6	A benchmark test for a quantitative assessment of simple neuron models. <i>Journal of Neuroscience Methods</i> , 2008, 169, 417-424.	2.5	121
7	The quantitative single-neuron modeling competition. <i>Biological Cybernetics</i> , 2008, 99, 417-426.	1.3	103
8	Multi-timescale Modeling of Activity-Dependent Metabolic Coupling in the Neuron-Glia-Vasculature Ensemble. <i>PLoS Computational Biology</i> , 2015, 11, e1004036.	3.2	86
9	Deciphering neuron-glia compartmentalization in cortical energy metabolism. <i>Frontiers in Neuroenergetics</i> , 2009, 1, 4.	5.3	73
10	Pivotal role of carnosine in the modulation of brain cells activity: Multimodal mechanism of action and therapeutic potential in neurodegenerative disorders. <i>Progress in Neurobiology</i> , 2019, 175, 35-53.	5.7	72
11	Comment on Recent Modeling Studies of Astrocyte-Neuron Metabolic Interactions. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2010, 30, 1982-1986.	4.3	70
12	Energy-Efficient Information Transfer by Visual Pathway Synapses. <i>Current Biology</i> , 2015, 25, 3151-3160.	3.9	60
13	Harnessing Microglia and Macrophages for the Treatment of Glioblastoma. <i>Frontiers in Pharmacology</i> , 2019, 10, 506.	3.5	55
14	Periaxonal and nodal plasticities modulate action potential conduction in the adult mouse brain. <i>Cell Reports</i> , 2021, 34, 108641.	6.4	54
15	Predicting neuronal activity with simple models of the threshold type: Adaptive Exponential Integrate-and-Fire model with two compartments. <i>Neurocomputing</i> , 2007, 70, 1668-1673.	5.9	53
16	Multimodal Imaging in Rats Reveals Impaired Neurovascular Coupling in Sustained Hypertension. <i>Stroke</i> , 2013, 44, 1957-1964.	2.0	50
17	Metabotropic glutamate receptor mGluR5 is not involved in the early hemodynamic response. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2011, 31, e1-e10.	4.3	39
18	Non-signalling energy use in the developing rat brain. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2017, 37, 951-966.	4.3	37

#	ARTICLE	IF	CITATIONS
19	Improved <i>in vivo</i> two-photon imaging after blood replacement by perfluorocarbon. <i>Journal of Physiology</i> , 2009, 587, 3153-3158.	2.9	32
20	The Spike Response Model: A Framework to Predict Neuronal Spike Trains. <i>Lecture Notes in Computer Science</i> , 2003, , 846-853.	1.3	26
21	A Process for Digitizing and Simulating Biologically Realistic Oligocellular Networks Demonstrated for the Neuro-Glio-Vascular Ensemble. <i>Frontiers in Neuroscience</i> , 2018, 12, 664.	2.8	25
22	Energy-efficient information transfer at thalamocortical synapses. <i>PLoS Computational Biology</i> , 2019, 15, e1007226.	3.2	22
23	Predicting spike times of a detailed conductance-based neuron model driven by stochastic spike arrival. <i>Journal of Physiology (Paris)</i> , 2004, 98, 442-451.	2.1	13
24	Special issue on quantitative neuron modeling. <i>Biological Cybernetics</i> , 2008, 99, 237-239.	1.3	12
25	Energy use constrains brain information processing. , 2017, , .		9
26	Two-photon microscopy with double-circle trajectories for <i>in vivo</i> cerebral blood flow measurements. <i>Experiments in Fluids</i> , 2013, 54, 1.	2.4	7
27	Analysis of Signaling Mechanisms Regulating Microglial Process Movement. <i>Methods in Molecular Biology</i> , 2019, 2034, 191-205.	0.9	5
28	High-accuracy liquid-sample γ -NMR setup at ISOLDE. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2021, 1020, 165862.	1.6	4
29	Magnetic Moments of Short-Lived Nuclei with Part-per-Million Accuracy: Toward Novel Applications of I^2 -Detected NMR in Physics, Chemistry, and Biology. <i>Physical Review X</i> , 2020, 10, .	8.9	2
30	Modelling Neuromodulated Information Flow and Energetic Consumption at Thalamic Relay Synapses. <i>Lecture Notes in Computer Science</i> , 2020, , 649-658.	1.3	0