Renaud Blaise Jolivet

List of Publications by Year
in descending order

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	Periaxonal and nodal plasticities modulate action potential conduction in the adult mouse brain. Cell Reports, 2021, 34, 108641.	6.4	54
2	High-accuracy liquid-sample <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e101" altimg="si42.svg"><mml:mi>Î²</mml:mi></mml:math>-NMR setup at ISOLDE. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2021, 1020, 165862.	1.6	4
3	Magnetic Moments of Short-Lived Nuclei with Part-per-Million Accuracy: Toward Novel Applications of Î² -Detected NMR in Physics, Chemistry, and Biology. Physical Review X, 2020, 10, .	8.9	2
4	Modelling Neuromodulated Information Flow and Energetic Consumption at Thalamic Relay Synapses. Lecture Notes in Computer Science, 2020, , 649-658.	1.3	0
5	Analysis of Signaling Mechanisms Regulating Microglial Process Movement. Methods in Molecular Biology, 2019, 2034, 191-205.	0.9	5
6	Energy-efficient information transfer at thalamocortical synapses. PLoS Computational Biology, 2019, 15, e1007226.	3.2	22
7	Harnessing Microglia and Macrophages for the Treatment of Glioblastoma. Frontiers in Pharmacology, 2019, 10, 506.	3.5	55
8	Pivotal role of carnosine in the modulation of brain cells activity: Multimodal mechanism of action and therapeutic potential in neurodegenerative disorders. Progress in Neurobiology, 2019, 175, 35-53.	5.7	72
9	Microglial Ramification, Surveillance, and Interleukin-1Î² Release Are Regulated by the Two-Pore Domain K+ Channel THIK-1. Neuron, 2018, 97, 299-312.e6.	8.1	323
10	A Process for Digitizing and Simulating Biologically Realistic Oligocellular Networks Demonstrated for the Neuro-Glio-Vascular Ensemble. Frontiers in Neuroscience, 2018, 12, 664.	2.8	25
11	Non-signalling energy use in the developing rat brain. Journal of Cerebral Blood Flow and Metabolism, 2017, 37, 951-966.	4.3	37
12	Energy use constrains brain information processing. , 2017, , .		9
13	Energy-Efficient Information Transfer by Visual Pathway Synapses. Current Biology, 2015, 25, 3151-3160.	3.9	60
14	Multi-timescale Modeling of Activity-Dependent Metabolic Coupling in the Neuron-Glia-Vasculature Ensemble. PLoS Computational Biology, 2015, 11, e1004036.	3.2	86
15	Two-photon microscopy with double-circle trajectories for in vivo cerebral blood flow measurements. Experiments in Fluids, 2013, 54, 1.	2.4	7
16	Multimodal Imaging in Rats Reveals Impaired Neurovascular Coupling in Sustained Hypertension. Stroke, 2013, 44, 1957-1964.	2.0	50
17	Synaptic Energy Use and Supply. Neuron, 2012, 75, 762-777.	8.1	1,209
18	<i>In Vivo</i>Evidence for Lactate as a Neuronal Energy Source. Journal of Neuroscience, 2011, 31, 7477-7485.	3.6	353

#	Article	IF	Citations
19	Metabotropic glutamate receptor mGluR5 is not involved in the early hemodynamic response. Journal of Cerebral Blood Flow and Metabolism, 2011, 31, e1-e10.	4.3	39
20	Comment on Recent Modeling Studies of Astrocyteâ€“Neuron Metabolic Interactions. Journal of Cerebral Blood Flow and Metabolism, 2010, 30, 1982-1986.	4.3	70
21	Deciphering neuron-glia compartmentalization in cortical energy metabolism. Frontiers in Neuroenergetics, 2009, 1, 4.	5.3	73
22	Improved <i>in vivo</i> twoâ€photon imaging after blood replacement by perfluorocarbon. Journal of Physiology, 2009, 587, 3153-3158.	2.9	32
23	The quantitative single-neuron modeling competition. Biological Cybernetics, 2008, 99, 417-426.	1.3	103
24	Special issue on quantitative neuron modeling. Biological Cybernetics, 2008, 99, 237-239.	1.3	12
25	A benchmark test for a quantitative assessment of simple neuron models. Journal of Neuroscience Methods, 2008, 169, 417-424.	2.5	121
26	Predicting neuronal activity with simple models of the threshold type: Adaptive Exponential Integrate-and-Fire model with two compartments. Neurocomputing, 2007, 70, 1668-1673.	5.9	53
27	Predicting spike timing of neocortical pyramidal neurons by simple threshold models. Journal of Computational Neuroscience, 2006, 21, 35-49.	1.0	246
28	Generalized Integrate-and-Fire Models of Neuronal Activity Approximate Spike Trains of a Detailed Model to a High Degree of Accuracy. Journal of Neurophysiology, 2004, 92, 959-976.	1.8	233
29	Predicting spike times of a detailed conductance-based neuron model driven by stochastic spike arrival. Journal of Physiology (Paris), 2004, 98, 442-451.	2.1	13
30	The Spike Response Model: A Framework to Predict Neuronal Spike Trains. Lecture Notes in Computer Science, 2003, , 846-853.	1.3	26