Tomas C Bellamy

List of Publications by Year
in descending order

32 papers	1,034 citations	516215 16 h-index	454577 30 g-index
32 all docs	32 docs citations	32 times ranked	1066 citing authors

#	Article	IF	Citations
1	On the activation of soluble guanylyl cyclase by nitric oxide. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 507-510.	3.3	141
2	Differential Sensitivity of Guanylyl Cyclase and Mitochondrial Respiration to Nitric Oxide Measured Using Clamped Concentrations. Journal of Biological Chemistry, 2002, 277, 31801-31807.	1.6	114
3	Interactions between Purkinje neurones and Bergmann glia. Cerebellum, 2006, 5, 116-126.	1.4	111
4	Sub-second Kinetics of the Nitric Oxide Receptor, Soluble Guanylyl Cyclase, in Intact Cerebellar Cells. Journal of Biological Chemistry, 2001, 276, 4287-4292.	1.6	106
5	A New and Simple Method for Delivering Clamped Nitric Oxide Concentrations in the Physiological Range: Application to Activation of Guanylyl Cyclase-Coupled Nitric Oxide Receptors. Molecular Pharmacology, 2003, 64, 1349-1356.	1.0	65
6	The receptor-like properties of nitric oxide-activated soluble guanylyl cyclase in intact cells. Molecular and Cellular Biochemistry, 2002, 230, 165-176.	1.4	53
7	â€œcAMP-Specificâ€•Phosphodiesterase Contributes to cGMP Degradation in Cerebellar Cells Exposed to Nitric Oxide. Molecular Pharmacology, 2001, 59, 54-61.	1.0	45
8	Short-term plasticity of Bergmann glial cell extrasynaptic currents during parallel fiber stimulation in rat cerebellum. Glia, 2005, 52, 325-335.	2.5	45
9	Kinetics of nitric oxide-cyclic GMP signalling in CNS cells and itspossible regulation by cyclic GMP. Journal of Neurochemistry, 2002, 83, 37-47.	2.1	42
10	Calcium Oscillations. Advances in Experimental Medicine and Biology, 2008, 641, 1-27.	0.8	40
11	Pharmacology of the nitric oxide receptor, soluble guanylyl cyclase, in cerebellar cells. British Journal of Pharmacology, 2002, 136, 95-103.	2.7	31
12	High-Throughput Analysis of Calcium Signalling Kinetics in Astrocytes Stimulated with Different Neurotransmitters. PLoS ONE, 2011, 6, e26889.	1.1	28
13	Long-term depression of neuron to glial signalling in rat cerebellar cortex. European Journal of Neuroscience, 2006, 23, 581-586.	1.2	25
14	Depression of parallel and climbing fiber transmission to Bergmann glia is input specific and correlates with increased precision of synaptic transmission. Glia, 2009, 57, 393-401.	2.5	21
15	Control of Cerebellar Long-Term Potentiation by P-Rex-Family Guanine-Nucleotide Exchange Factors and Phosphoinositide 3-Kinase. PLoS ONE, 2010, 5, e11962.	1.1	21
16	The receptor-like properties of nitric oxide-activated soluble guanylyl cyclase in intact cells. Molecular and Cellular Biochemistry, 2002, 230, 165-76.	1.4	19
17	The receptor-like properties of Nitric oxide-activated soluble guanylyl cyclase in intact cells. , 2002, , 165-176.		16
18	Ectopic release sites lack fast vesicle recycling mechanisms, causing longâ€term depression of neuronâ€glial transmission in rat cerebellum. Glia, 2011, 59, 82-93.	2.5	13

#	Article	IF	Citations
19	Plasticity of Neuron-Glial Transmission: Equipping Glia for Long-Term Integration of Network Activity. Neural Plasticity, 2015, 2015, 1-11.	1.0	13
20	Presynaptic modulation of parallel fibre signalling to Bergmann glia. Neuropharmacology, 2007, 52, 368-375.	2.0	12
21	A Statistical View on Calcium Oscillations. Advances in Experimental Medicine and Biology, 2020, 1131, 799-826.	0.8	12
22	Ectopic release of glutamate contributes to spillover at parallel fibre synapses in the cerebellum. Journal of Physiology, 2014, 592, 1493-1503.	1.3	11
23	Probabilistic encoding of stimulus strength in astrocyte global calcium signals. Glia, 2016, 64, 537-552.	2.5	11
24	A Bayesian approach to modelling heterogeneous calcium responses in cell populations. PLoS Computational Biology, 2017, 13, e1005794.	1.5	10
25	A real-time fluorescent assay of the purified nitric oxide receptor, guanylyl cyclase. Analytical Biochemistry, 2010, 402, 129-136.	1.1	9
26	Caffeine Modulates Vesicle Release and Recovery at Cerebellar Parallel Fibre Terminals, Independently of Calcium and Cyclic AMP Signalling. PLoS ONE, 2015, 10, e0125974.	1.1	8
27	Characterization of neuronal viability and network activity under microfluidic flow. Journal of Neuroscience Methods, 2021, 358, 109200.	1.3	4
28	Glial Plasticity. Neural Plasticity, 2015, 2015, 1-2.	1.0	3
29	Localization of Presynaptic Plasticity Mechanisms Enables Functional Independence of Synaptic and Ectopic Transmission in the Cerebellum. Neural Plasticity, 2015, 2015, 1-11.	1.0	2
30	Stimulus Discrimination in Cerebellar Purkinje Neurons. PLoS ONE, 2014, 9, e87828.	1.1	1
31	Distribution of vesicle pools in cerebellar parallel fibre terminals after depression of ectopic transmission. PLoS ONE, 2018, 13, e0200937.	1.1	1
32	Glial Cells. , 2016, , 219-223.		1