StÃ©phane Henri Richard Oliet

List of Publications by Year
in descending order

66 papers	9,617 citations	76326 40 h-index	110387 64 g-index
71 all docs	71 docs citations	71 times ranked	9705 citing authors

#	Article	IF	Citations
1	NMDARs, Coincidence Detectors of Astrocytic and Neuronal Activities. International Journal of Molecular Sciences, 2021, 22, 7258.	4.1	11
2	Brain energy rescue: an emerging therapeutic concept for neurodegenerative disorders of ageing. Nature Reviews Drug Discovery, 2020, 19, 609-633.	46.4	441
3	LTP Induction Boosts Glutamate Spillover by Driving Withdrawal of Perisynaptic Astroglia. Neuron, 2020, 108, 919-936.e11.	8.1	159
4	Impairment of Glycolysis-Derived l-Serine Production in Astrocytes Contributes to Cognitive Deficits in Alzheimerâ€™s Disease. Cell Metabolism, 2020, 31, 503-517.e8.	16.2	160
5	Structural basis of astrocytic Ca2+ signals at tripartite synapses. Nature Communications, 2020, 11, 1906.	12.8	133
6	Aquaporin-4 Surface Trafficking Regulates Astrocytic Process Motility and Synaptic Activity in Health and Autoimmune Disease. Cell Reports, 2019, 27, 3860-3872.e4.	6.4	43
7	Deciphering the microstructure of hippocampal subfields with in vivo DTI and NODDI: Applications to experimental multiple sclerosis. NeuroImage, 2018, 172, 357-368.	4.2	40
8	Sequential alteration of microglia and astrocytes in the rat thalamus following spinal nerve ligation. Journal of Neuroinflammation, 2018, 15, 349.	7.2	29
9	Modulation of astrocyte reactivity improves functional deficits in mouse models of Alzheimerâ€™s disease. Acta Neuropathologica Communications, 2018, 6, 104.	5.2	134
10	Astroglial CB1 Receptors Determine Synaptic D-Serine Availability to Enable Recognition Memory. Neuron, 2018, 98, 935-944.e5.	8.1	170
11	Astrocytic IP₃Rs: Contribution to Ca²⁺ signalling and hippocampal LTP. Glia, 2017, 65, 502-513.	4.9	105
12	Astroglial glutamate transporters in the brain: Regulating neurotransmitter homeostasis and synaptic transmission. Journal of Neuroscience Research, 2017, 95, 2140-2151.	2.9	129
13	Synaptic and Extra-Synaptic NMDA Receptors in the CNS. , 2017, , 19-49.		3
14	Astroglial versus Neuronal D-Serine: Fact Checking. Trends in Neurosciences, 2017, 40, 517-520.	8.6	83
15	Dynamics of surface neurotransmitter receptors and transporters in glial cells: Single molecule insights. Cell Calcium, 2017, 67, 46-52.	2.4	11
16	Activity-Dependent Neuroplasticity Induced by an Enriched Environment Reverses Cognitive Deficits in Scribble Deficient Mouse. Cerebral Cortex, 2017, 27, 5635-5651.	2.9	15
17	Co-agonists differentially tune GluN2B-NMDA receptor trafficking at hippocampal synapses. ELife, 2017, 6, .	6.0	76
18	Effects of glia metabolism inhibition on nociceptive behavioral testing in rats. Data in Brief, 2016, 7, 372-375.	1.0	0

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19	Surface diffusion of astrocytic glutamate transporters shapes synaptic transmission. Nature Neuroscience, 2015, 18, 219-226.	14.8	223
20	Neuropathic pain depends upon d-serine co-activation of spinal NMDA receptors in rats. Neuroscience Letters, 2015, 603, 42-47.	2.1	31
21	Astrocytosis in parkinsonism: considering tripartite striatal synapses in physiopathology?. Frontiers in Aging Neuroscience, 2014, 6, 258.	3.4	46
22	Novel cell separation method for molecular analysis of neuron-astrocyte co-cultures. Frontiers in Cellular Neuroscience, 2014, 8, 12.	3.7	20
23	Gliotransmitters Travel in Time and Space. Neuron, 2014, 81, 728-739.	8.1	1,010
24	Extracellular signalâ€regulated kinase phosphorylation in forebrain neurones contributes to osmoregulatory mechanisms. Journal of Physiology, 2014, 592, 1637-1654.	2.9	12
25	Proteomic Analysis of Gliosomes from Mouse Brain: Identification and Investigation of Glial Membrane Proteins. Journal of Proteome Research, 2014, 13, 5918-5927.	3.7	35
26	Organization, control and function of extrasynaptic NMDA receptors. Philosophical Transactions of the Royal Society B: Biological Sciences, 2014, 369, 20130601.	4.0	135
27	Cancer pain is not necessarily correlated with spinal overexpression of reactive glia markers. Pain, 2014, 155, 275-291.	4.2	43
28	Structural, Kinetic, and Pharmacodynamic Mechanisms of <scp>d</scp>-Amino Acid Oxidase Inhibition by Small Molecules. Journal of Medicinal Chemistry, 2013, 56, 3710-3724.	6.4	31
29	Kainate Receptor-Induced Retrograde Inhibition of Glutamatergic Transmission in Vasopressin Neurons. Journal of Neuroscience, 2012, 32, 1301-1310.	3.6	4
30	Synaptic and Extrasynaptic NMDA Receptors Are Gated by Different Endogenous Coagonists. Cell, 2012, 150, 633-646.	28.9	597
31	Glial D-Serine Gates NMDA Receptors at Excitatory Synapses in Prefrontal Cortex. Cerebral Cortex, 2012, 22, 595-606.	2.9	154
32	Glial cells in (patho)physiology. Journal of Neurochemistry, 2012, 121, 4-27.	3.9	460
33	Conditional reduction of adult neurogenesis impairs bidirectional hippocampal synaptic plasticity. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 6644-6649.	7.1	80
34	Long-term potentiation depends on release of d-serine from astrocytes. Nature, 2010, 463, 232-236.	27.8	1,140
35	Morphological plasticity of the rat supraoptic nucleus â€“ cellular consequences. European Journal of Neuroscience, 2010, 32, 1989-1994.	2.6	42
36	Glutamatergic Inputs Contribute to Phasic Activity in Vasopressin Neurons. Journal of Neuroscience, 2010, 30, 1221-1232.	3.6	31

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37	Glia-Dependent Switch of Kainate Receptor Presynaptic Action. Journal of Neuroscience, 2010, 30, 985-995.	3.6	33
38	The Planar Polarity Protein Scribble1 Is Essential for Neuronal Plasticity and Brain Function. Journal of Neuroscience, 2010, 30, 9738-9752.	3.6	62
39	Alterations in the Hippocampal Endocannabinoid System in Diet-Induced Obese Mice. Journal of Neuroscience, 2010, 30, 6273-6281.	3.6	93
40	Spatial learning sculpts the dendritic arbor of adult-born hippocampal neurons. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 7963-7968.	7.1	184
41	Oxytocin-Induced Postinhibitory Rebound Firing Facilitates Bursting Activity in Oxytocin Neurons. Journal of Neuroscience, 2008, 28, 385-394.	3.6	42
42	Neuronâ€“glia interactions in the rat supraoptic nucleus. Progress in Brain Research, 2008, 170, 109-117.	1.4	41
43	Activity-Dependent Structural and Functional Plasticity of Astrocyte-Neuron Interactions. Physiological Reviews, 2008, 88, 983-1008.	28.8	443
44	Retrograde Regulation of GABA Transmission by the Tonic Release of Oxytocin and Endocannabinoids Governs Postsynaptic Firing. Journal of Neuroscience, 2007, 27, 1325-1333.	3.6	102
45	Glia: they make your memories stick!. Trends in Neurosciences, 2007, 30, 417-424.	8.6	121
46	Spatial Learning Depends on Both the Addition and Removal of New Hippocampal Neurons. PLoS Biology, 2007, 5, e214.	5.6	337
47	Glia-Derived d-Serine Controls NMDA Receptor Activity and Synaptic Memory. Cell, 2006, 125, 775-784.	28.9	789
48	Oxytocin and estrogen promote rapid formation of functional GABA synapses in the adult supraoptic nucleus. Molecular and Cellular Neurosciences, 2006, 31, 785-794.	2.2	55
49	Activity-dependent synaptic plasticity in the supraoptic nucleus of the rat hypothalamus. Journal of Physiology, 2006, 573, 711-721.	2.9	39
50	Molecular determinants ofD-serine-mediated gliotransmission: From release to function. Glia, 2006, 54, 726-737.	4.9	62
51	Neuronâ€“glia interactions in the hypothalamus. Neuron Glia Biology, 2006, 2, 51-58.	1.6	22
52	Voltage-gated Ca2+channel subtypes mediating GABAergic transmission in the rat supraoptic nucleus. European Journal of Neuroscience, 2005, 21, 2459-2466.	2.6	8
53	Physiological contribution of the astrocytic environment of neurons to intersynaptic crosstalk. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 2151-2155.	7.1	235
54	Glial modulation of synaptic transmission: Insights from the supraoptic nucleus of the hypothalamus. Glia, 2004, 47, 258-267.	4.9	89

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55	Regulation of transmitter release by high-affinity group III mGluRs in the supraoptic nucleus of the rat hypothalamus. Neuropharmacology, 2004, 47, 333-341.	4.1	37
56	Contribution of astrocytes to synaptic transmission in the rat supraoptic nucleus. Neurochemistry International, 2004, 45, 251-257.	3.8	25
57	Neuronal, glial and synaptic remodeling in the adult hypothalamus: functional consequences and role of cell surface and extracellular matrix adhesion molecules. Neurochemistry International, 2004, 45, 491-501.	3.8	97
58	Modulation of GABAergic transmission by endogenous glutamate in the rat supraoptic nucleus. European Journal of Neuroscience, 2003, 17, 1777-1785.	2.6	38
59	Dopamine D4 Receptor-Mediated Presynaptic Inhibition of GABAergic Transmission in the Rat Supraoptic Nucleus. Journal of Neurophysiology, 2003, 90, 559-565.	1.8	41
60	Modulation of synaptic transmission by astrocytes in the rat supraoptic nucleus. Journal of Physiology (Paris), 2002, 96, 231-236.	2.1	19
61	Adenosine-induced presynaptic inhibition of IPSCs and EPSCs in rat hypothalamic supraoptic nucleus neurones. Journal of Physiology, 1999, 520, 815-825.	2.9	103
62	Evidence for a Hypothalamic Oxytocin-Sensitive Pattern-Generating Network Governing Oxytocin Neurons<i>In Vitro</i>. Journal of Neuroscience, 1998, 18, 6641-6649.	3.6	110
63	OSMORECEPTORS IN THE CENTRAL NERVOUS SYSTEM. Annual Review of Physiology, 1997, 59, 601-619.	13.1	231
64	Effects of Activin-A on Neurons Acutely Isolated from the Rat Supraoptic Nucleus. Journal of Neuroendocrinology, 1995, 7, 661-663.	2.6	13
65	Mechanosensitive channels transduce osmosensitivity in supraoptic neurons. Nature, 1993, 364, 341-343.	27.8	297
66	Functional Neuronal-Glial Anatomical Remodelling in the Hypothalamus. Novartis Foundation Symposium, 0, , 238-252.	1.1	8