

Frank W Pfriederger

List of Publications by Year in descending order

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65
papers

9,687
citations

94269

37
h-index

110170

64
g-index

71
all docs

71
docs citations

71
times ranked

10548
citing authors

#	ARTICLE	IF	CITATIONS
1	CNS Synaptogenesis Promoted by Glia-Derived Cholesterol. <i>Science</i> , 2001, 294, 1354-1357.	6.0	1,463
2	Reactive astrocyte nomenclature, definitions, and future directions. <i>Nature Neuroscience</i> , 2021, 24, 312-325.	7.1	1,098
3	Characterization of the signaling interactions that promote the survival and growth of developing retinal ganglion cells in culture. <i>Neuron</i> , 1995, 15, 805-819.	3.8	774
4	Synaptic Efficacy Enhanced by Glial Cells in Vitro. <i>Science</i> , 1997, 277, 1684-1687.	6.0	692
5	Origin of New Glial Cells in Intact and Injured Adult Spinal Cord. <i>Cell Stem Cell</i> , 2010, 7, 470-482.	5.2	533
6	Cholesterol metabolism in neurons and astrocytes. <i>Progress in Lipid Research</i> , 2011, 50, 357-371.	5.3	363
7	Cholesterol homeostasis and function in neurons of the central nervous system. <i>Cellular and Molecular Life Sciences</i> , 2003, 60, 1158-1171.	2.4	351
8	RBPJ ^Δ -Dependent Signaling Is Essential for Long-Term Maintenance of Neural Stem Cells in the Adult Hippocampus. <i>Journal of Neuroscience</i> , 2010, 30, 13794-13807.	1.7	294
9	Outsourcing in the brain: Do neurons depend on cholesterol delivery by astrocytes?. <i>BioEssays</i> , 2003, 25, 72-78.	1.2	271
10	Multiple mechanisms mediate cholesterol-induced synaptogenesis in a CNS neuron. <i>Molecular and Cellular Neurosciences</i> , 2005, 29, 190-201.	1.0	263
11	Role of cholesterol in synapse formation and function. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2003, 1610, 271-280.	1.4	256
12	Calcium dynamics in astrocyte processes during neurovascular coupling. <i>Nature Neuroscience</i> , 2015, 18, 210-218.	7.1	235
13	Cholesterol in brain disease: sometimes determinant and frequently implicated. <i>EMBO Reports</i> , 2014, 15, 1036-1052.	2.0	224
14	Marked differences in cholesterol synthesis between neurons and glial cells from postnatal rats. <i>Journal of Neurochemistry</i> , 2009, 109, 125-134.	2.1	221
15	Synaptic Integration of Adult-Born Hippocampal Neurons Is Locally Controlled by Astrocytes. <i>Neuron</i> , 2015, 88, 957-972.	3.8	220
16	New roles for astrocytes: Regulation of CNS synaptogenesis. <i>Trends in Neurosciences</i> , 2003, 26, 531-535.	4.2	197
17	Glia-derived signals induce synapse formation in neurones of the rat central nervous system. <i>Journal of Physiology</i> , 2001, 533, 665-679.	1.3	170
18	New views on synapse-glia interactions. <i>Current Opinion in Neurobiology</i> , 1996, 6, 615-621.	2.0	143

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19	Transgenic mice for conditional gene manipulation in astroglial cells. <i>Glia</i> , 2007, 55, 1565-1576.	2.5	137
20	Kinetics of GABAB receptor-mediated inhibition of calcium currents and excitatory synaptic transmission in hippocampal neurons in vitro. <i>Neuron</i> , 1994, 12, 97-107.	3.8	112
21	Role of glial cells in the formation and maintenance of synapses. <i>Brain Research Reviews</i> , 2010, 63, 39-46.	9.1	108
22	Role of glia-derived cholesterol in synaptogenesis: new revelations in the synapseâ€“glia affair. <i>Journal of Physiology (Paris)</i> , 2002, 96, 257-263.	2.1	101
23	Thematic Review Series: Exosomes and Microvesicles: Lipids as Key Components of their Biogenesis and Functions, Cholesterol and the journey of extracellular vesicles. <i>Journal of Lipid Research</i> , 2018, 59, 2255-2261.	2.0	94
24	Lack of Niemannâ€“Pick type C1 induces age-related degeneration in the mouse retina. <i>Molecular and Cellular Neurosciences</i> , 2010, 43, 164-176.	1.0	76
25	Role of astroglial connexin30 in hippocampal gap junction coupling. <i>Glia</i> , 2011, 59, 511-519.	2.5	73
26	Roles of glial cells in synapse development. <i>Cellular and Molecular Life Sciences</i> , 2009, 66, 2037-2047.	2.4	69
27	Relevance of Exocytotic Glutamate Release from Retinal Glia. <i>Neuron</i> , 2012, 74, 504-516.	3.8	69
28	What the fly's glia tell the fly's brain. <i>Cell</i> , 1995, 83, 671-674.	13.5	66
29	Pharmacological characterization of calcium currents and synaptic transmission between thalamic neurons in vitro. <i>Journal of Neuroscience</i> , 1992, 12, 4347-4357.	1.7	65
30	Isolation and characterization of living primary astroglial cells using the new GLASTâ€“specific monoclonal antibody ACSAâ€“1. <i>Glia</i> , 2012, 60, 894-907.	2.5	61
31	Role of glia in synapse development. <i>Current Opinion in Neurobiology</i> , 2002, 12, 486-490.	2.0	56
32	Migration Speed of Cajal-Retzius Cells Modulated by Vesicular Trafficking Controls the Size of Higher-Order Cortical Areas. <i>Current Biology</i> , 2015, 25, 2466-2478.	1.8	54
33	Glucocorticoid receptor in astrocytes regulates midbrain dopamine neurodegeneration through connexin hemichannel activity. <i>Cell Death and Differentiation</i> , 2019, 26, 580-596.	5.0	53
34	An autocrine purinergic signaling controls astrocyte-induced neuronal excitation. <i>Scientific Reports</i> , 2017, 7, 11280.	1.6	48
35	Altered Brain Cholesterol/Isoprenoid Metabolism in a Rat Model of Autism Spectrum Disorders. <i>Neuroscience</i> , 2018, 372, 27-37.	1.1	48
36	Regional variations in the glial influence on synapse development in the mouse CNS. <i>Journal of Physiology</i> , 2006, 577, 249-261.	1.3	47

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37	Genetic approaches to study glial cells in the rodent brain. <i>Glia</i> , 2012, 60, 681-701.	2.5	40
38	Purification of embryonic stem cell-derived neurons by immunoisolation. <i>FASEB Journal</i> , 2003, 17, 1-10.	0.2	37
39	Glia-induced neuronal differentiation by transcriptional regulation. <i>Glia</i> , 2007, 55, 1108-1122.	2.5	36
40	Astrocyte-derived Jagged-1 mitigates deleterious Notch signaling in amyotrophic lateral sclerosis. <i>Neurobiology of Disease</i> , 2018, 119, 26-40.	2.1	35
41	Loss of Mevalonate/Cholesterol Homeostasis in the Brain: A Focus on Autism Spectrum Disorder and Rett Syndrome. <i>International Journal of Molecular Sciences</i> , 2019, 20, 3317.	1.8	35
42	Synaptic plasticity, astrocytes and morphological homeostasis. <i>Journal of Physiology (Paris)</i> , 2006, 99, 84-91.	2.1	34
43	Expression Patterns of Inducible Cre Recombinase Driven by Differential Astrocyte-Specific Promoters in Transgenic Mouse Lines. <i>Neuroscience Bulletin</i> , 2020, 36, 530-544.	1.5	33
44	CXCR4 prevents dispersion of granule neuron precursors in the adult dentate gyrus. <i>Hippocampus</i> , 2013, 23, 1345-1358.	0.9	31
45	Tanycytes control hypothalamic liraglutide uptake and its anti-obesity actions. <i>Cell Metabolism</i> , 2022, 34, 1054-1063.e7.	7.2	28
46	The formation of glutamatergic synapses in cultured central neurons: selective increase in miniature synaptic currents. <i>Developmental Brain Research</i> , 1994, 81, 77-88.	2.1	27
47	Modulation of the Isoprenoid/Cholesterol Biosynthetic Pathway During Neuronal Differentiation In Vitro. <i>Journal of Cellular Biochemistry</i> , 2016, 117, 2036-2044.	1.2	27
48	Reversal of Pathologic Lipid Accumulation in NPC1-Deficient Neurons by Drug-Promoted Release of LAMP1-Coated Lamellar Inclusions. <i>Journal of Neuroscience</i> , 2016, 36, 8012-8025.	1.7	26
49	Implication of neuropilin 2/semaphorin 3F in retinocollicular map formation. <i>Developmental Dynamics</i> , 2008, 237, 3394-3403.	0.8	24
50	Glial cells promote dendrite formation and the reception of synaptic input in Purkinje cells from postnatal mice. <i>Glia</i> , 2010, 58, 538-545.	2.5	24
51	Understanding and Treating Niemann-Pick Type C Disease: Models Matter. <i>International Journal of Molecular Sciences</i> , 2020, 21, 8979.	1.8	20
52	The Role of Hypothalamic NF- κ B Signaling in the Response of the HPT-Axis to Acute Inflammation in Female Mice. <i>Endocrinology</i> , 2016, 157, 2947-2956.	1.4	19
53	Suppression of SNARE-dependent exocytosis in retinal glial cells and its effect on ischemia-induced neurodegeneration. <i>Glia</i> , 2017, 65, 1059-1071.	2.5	17
54	A molecular mechanism for the topographic alignment of convergent neural maps. <i>ELife</i> , 2017, 6, .	2.8	17

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55	Relevance of neuronal and glial NPC1 for synaptic input to cerebellar Purkinje cells. <i>Molecular and Cellular Neurosciences</i> , 2014, 61, 65-71.	1.0	15
56	Mapping astrocyte activity domains by light sheet imaging and spatio-temporal correlation screening. <i>NeuroImage</i> , 2020, 220, 117069.	2.1	14
57	Neurodegenerative Diseases and Cholesterol: Seeing the Field Through the Players. <i>Frontiers in Aging Neuroscience</i> , 2021, 13, 766587.	1.7	13
58	Defective response inhibition and collicular noradrenaline enrichment in mice with duplicated retinotopic map in the superior colliculus. <i>Brain Structure and Function</i> , 2015, 220, 1573-1584.	1.2	8
59	Glial contribution to cyclodextrin-mediated reversal of cholesterol accumulation in murine NPC1-deficient neurons in vivo. <i>Neurobiology of Disease</i> , 2021, 158, 105469.	2.1	6
60	A link between cholesterol, synapse plasticity, degeneration and neurological disorders: Reinvention or integration?. <i>BioEssays</i> , 2003, 25, 736-737.	1.2	3
61	TeamTree analysis: A new approach to evaluate scientific production. <i>PLoS ONE</i> , 2021, 16, e0253847.	1.1	2
62	Letter from the Guest Editor. <i>Cell Adhesion and Migration</i> , 2009, 3, 27-28.	1.1	1
63	Role of astrocytes in the formation, maturation and maintenance of synapses. , 2004, , 417-436.		1
64	Response to Dr. Koudinov's letter. <i>BioEssays</i> , 2003, 25, 737-737.	1.2	0
65	Learning from Barres. <i>Glia</i> , 2018, 66, 1537-1541.	2.5	0