

Mark Farrant

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

48
papers

7,581
citations

32
h-index

55
g-index

55
ext. papers

8,311
ext. citations

13.7
avg, IF

5.96
L-index

#	Paper	IF	Citations
48	Variations on an inhibitory theme: phasic and tonic activation of GABA(A) receptors. <i>Nature Reviews Neuroscience</i> , 2005 , 6, 215-29	13.5	1590
47	NMDA receptor subunits: diversity, development and disease. <i>Current Opinion in Neurobiology</i> , 2001 , 11, 327-35	7.6	1354
46	Neuroactive steroids reduce neuronal excitability by selectively enhancing tonic inhibition mediated by delta subunit-containing GABAA receptors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003 , 100, 14439-44	11.5	646
45	Adaptive regulation of neuronal excitability by a voltage-independent potassium conductance. <i>Nature</i> , 2001 , 409, 88-92	50.4	480
44	Differences in synaptic GABA(A) receptor number underlie variation in GABA mini amplitude. <i>Neuron</i> , 1997 , 19, 697-709	13.9	379
43	Regulation of Ca ²⁺ -permeable AMPA receptors: synaptic plasticity and beyond. <i>Current Opinion in Neurobiology</i> , 2006 , 16, 288-97	7.6	353
42	The cellular, molecular and ionic basis of GABA(A) receptor signalling. <i>Progress in Brain Research</i> , 2007 , 160, 59-87	2.9	282
41	NMDA-receptor channel diversity in the developing cerebellum. <i>Nature</i> , 1994 , 368, 335-9	50.4	277
40	Synaptic inhibition of Purkinje cells mediates consolidation of vestibulo-cerebellar motor learning. <i>Nature Neuroscience</i> , 2009 , 12, 1042-9	25.5	228
39	Single-channel properties of synaptic and extrasynaptic GABAA receptors suggest differential targeting of receptor subtypes. <i>Journal of Neuroscience</i> , 1999 , 19, 2960-73	6.6	211
38	Stargazin attenuates intracellular polyamine block of calcium-permeable AMPA receptors. <i>Nature Neuroscience</i> , 2007 , 10, 1260-7	25.5	151
37	GABAergic regulation of cerebellar NG2 cell development is altered in perinatal white matter injury. <i>Nature Neuroscience</i> , 2015 , 18, 674-82	25.5	123
36	Maturation of EPSCs and intrinsic membrane properties enhances precision at a cerebellar synapse. <i>Journal of Neuroscience</i> , 2003 , 23, 6074-85	6.6	120
35	From synapse to behavior: rapid modulation of defined neuronal types with engineered GABAA receptors. <i>Nature Neuroscience</i> , 2007 , 10, 923-9	25.5	106
34	A direct comparison of the single-channel properties of synaptic and extrasynaptic NMDA receptors. <i>Journal of Neuroscience</i> , 1997 , 17, 107-16	6.6	88
33	Selective regulation of long-form calcium-permeable AMPA receptors by an atypical TARP, gamma-5. <i>Nature Neuroscience</i> , 2009 , 12, 277-85	25.5	87
32	Bidirectional plasticity of calcium-permeable AMPA receptors in oligodendrocyte lineage cells. <i>Nature Neuroscience</i> , 2011 , 14, 1430-8	25.5	84

31	Identification of subunits contributing to synaptic and extrasynaptic NMDA receptors in Golgi cells of the rat cerebellum. <i>Journal of Physiology</i> , 2000 , 524 Pt 1, 147-62	3.9	81
30	Profound desensitization by ambient GABA limits activation of α -containing GABA _A receptors during spillover. <i>Journal of Neuroscience</i> , 2011 , 31, 753-63	6.6	80
29	Setting the time course of inhibitory synaptic currents by mixing multiple GABA(A) receptor β subunit isoforms. <i>Journal of Neuroscience</i> , 2012 , 32, 5853-67	6.6	72
28	NMDA receptor diversity in the cerebellum: identification of subunits contributing to functional receptors. <i>Neuropharmacology</i> , 1998 , 37, 1369-80	5.5	72
27	Climbing-fibre activation of NMDA receptors in Purkinje cells of adult mice. <i>Journal of Physiology</i> , 2007 , 585, 91-101	3.9	69
26	Synaptic mGluR activation drives plasticity of calcium-permeable AMPA receptors. <i>Nature Neuroscience</i> , 2009 , 12, 593-601	25.5	66
25	Cornichons modify channel properties of recombinant and glial AMPA receptors. <i>Journal of Neuroscience</i> , 2012 , 32, 9796-804	6.6	64
24	Probing TARP modulation of AMPA receptor conductance with polyamine toxins. <i>Journal of Neuroscience</i> , 2011 , 31, 7511-20	6.6	51
23	An Essential Role for the Tetraspanin LHFPL4 in the Cell-Type-Specific Targeting and Clustering of Synaptic GABA Receptors. <i>Cell Reports</i> , 2017 , 21, 70-83	10.6	48
22	Mapping the interaction sites between AMPA receptors and TARPs reveals a role for the receptor N-terminal domain in channel gating. <i>Cell Reports</i> , 2014 , 9, 728-40	10.6	47
21	Channel properties reveal differential expression of TARPed and TARPless AMPARs in stargazer neurons. <i>Nature Neuroscience</i> , 2012 , 15, 853-61	25.5	46
20	TARP β 7 selectively enhances synaptic expression of calcium-permeable AMPARs. <i>Nature Neuroscience</i> , 2013 , 16, 1266-74	25.5	39
19	Auxiliary Subunit GSG1L Acts to Suppress Calcium-Permeable AMPA Receptor Function. <i>Journal of Neuroscience</i> , 2015 , 35, 16171-9	6.6	39
18	Molecular mechanisms contributing to TARP regulation of channel conductance and polyamine block of calcium-permeable AMPA receptors. <i>Journal of Neuroscience</i> , 2014 , 34, 11673-83	6.6	35
17	TARP-associated AMPA receptors display an increased maximum channel conductance and multiple kinetically distinct open states. <i>Journal of Physiology</i> , 2012 , 590, 5723-38	3.9	32
16	Synapse-specific expression of calcium-permeable AMPA receptors in neocortical layer 5. <i>Journal of Physiology</i> , 2016 , 594, 837-61	3.9	23
15	A role of TARPs in the expression and plasticity of calcium-permeable AMPARs: evidence from cerebellar neurons and glia. <i>Neuropharmacology</i> , 2013 , 74, 76-85	5.5	20
14	Properties of GABA(A) receptor-mediated transmission at newly formed Golgi-granule cell synapses in the cerebellum. <i>Neuropharmacology</i> , 2003 , 44, 181-9	5.5	20

13	Dual Effects of TARP ϵ on Glutamate Efficacy Can Account for AMPA Receptor Autoinactivation. <i>Cell Reports</i> , 2017 , 20, 1123-1135	10.6	17
12	TARP ϵ Is Required for Inflammation-Associated AMPA Receptor Plasticity within Lamina II of the Spinal Cord Dorsal Horn. <i>Journal of Neuroscience</i> , 2017 , 37, 6007-6020	6.6	16
11	Transmembrane AMPAR regulatory protein ϵ is required for the modulation of GABA release by presynaptic AMPARs. <i>Journal of Neuroscience</i> , 2015 , 35, 4203-14	6.6	13
10	Synapse Type-Dependent Expression of Calcium-Permeable AMPA Receptors. <i>Frontiers in Synaptic Neuroscience</i> , 2018 , 10, 34	3.5	13
9	Neuroscience. AMPA receptors--another twist?. <i>Science</i> , 2010 , 327, 1463-5	33.3	10
8	Homomeric GluA2(R) AMPA receptors can conduct when desensitized. <i>Nature Communications</i> , 2019 , 10, 4312	17.4	8
7	Amino Acids: Inhibitory 225-250		6
6	Transient developmental imbalance of cortical interneuron subtypes presages long-term changes in behavior. <i>Cell Reports</i> , 2021 , 35, 109249	10.6	4
5	Ca ²⁺ -permeable AMPA receptors and their auxiliary subunits in synaptic plasticity and disease. <i>Journal of Physiology</i> , 2021 , 599, 2655-2671	3.9	4
4	Altered Cerebellar Short-Term Plasticity but No Change in Postsynaptic AMPA-Type Glutamate Receptors in a Mouse Model of Juvenile Batten Disease. <i>ENeuro</i> , 2018 , 5,	3.9	3
3	Intracellular NASPM allows an unambiguous functional measure of GluA2-lacking calcium-permeable AMPA receptor prevalence		2
2	Insights into GABA _A receptors receptor complexity from the study of cerebellar granule cells. <i>Pharmaceutical Science Series</i> , 2001 , 189-201		1
1	Differential Activation of GABA _A -Receptor Subtypes 2007 , 87-110		