Mark Farrant

List of Publications by Year
in descending order

50 papers	8,701 citations	117571 34 h-index	206029 48 g-index
55 all docs	55 docs citations	55 times ranked	8219 citing authors

#	Article	IF	Citations
1	Influence of the TARP Î³8-Selective Negative Allosteric Modulator JNJ-55511118 on AMPA Receptor Gating and Channel Conductance. Molecular Pharmacology, 2022, 101, 343-356.	1.0	5
2	Ca²⁺â€permeable AMPA receptors and their auxiliary subunits in synaptic plasticity and disease. Journal of Physiology, 2021, 599, 2655-2671.	1.3	38
3	Transient developmental imbalance of cortical interneuron subtypes presages long-term changes in behavior. Cell Reports, 2021, 35, 109249.	2.9	11
4	Homomeric GluA2(R) AMPA receptors can conduct when desensitized. Nature Communications, 2019, 10, 4312.	5.8	22
5	Synapse Type-Dependent Expression of Calcium-Permeable AMPA Receptors. Frontiers in Synaptic Neuroscience, 2018, 10, 34.	1.3	25
6	Altered Cerebellar Short-Term Plasticity but No Change in Postsynaptic AMPA-Type Glutamate Receptors in a Mouse Model of Juvenile Batten Disease. ENeuro, 2018, 5, ENEURO.0387-17.2018.	0.9	5
7	TARP Î³-2 Is Required for Inflammation-Associated AMPA Receptor Plasticity within Lamina II of the Spinal Cord Dorsal Horn. Journal of Neuroscience, 2017, 37, 6007-6020.	1.7	21
8	An Essential Role for the Tetraspanin LHFPL4 in the Cell-Type-Specific Targeting and Clustering of Synaptic GABA A Receptors. Cell Reports, 2017, 21, 70-83.	2.9	85
9	Dual Effects of TARP Î³-2 on Glutamate Efficacy Can Account for AMPA Receptor Autoinactivation. Cell Reports, 2017, 20, 1123-1135.	2.9	28
10	Synapseâ€specific expression of calciumâ€permeable AMPA receptors in neocortical layer 5. Journal of Physiology, 2016, 594, 837-861.	1.3	41
11	Auxiliary Subunit GSG1L Acts to Suppress Calcium-Permeable AMPA Receptor Function. Journal of Neuroscience, 2015, 35, 16171-16179.	1.7	59
12	GABAergic regulation of cerebellar NG2 cell development is altered in perinatal white matter injury. Nature Neuroscience, 2015, 18, 674-682.	7.1	167
13	Transmembrane AMPAR Regulatory Protein Î³-2 Is Required for the Modulation of GABA Release by Presynaptic AMPARs. Journal of Neuroscience, 2015, 35, 4203-4214.	1.7	14
14	Mapping the Interaction Sites between AMPA Receptors and TARPs Reveals a Role for the Receptor N-Terminal Domain in Channel Gating. Cell Reports, 2014, 9, 728-740.	2.9	63
15	Molecular Mechanisms Contributing to TARP Regulation of Channel Conductance and Polyamine Block of Calcium-Permeable AMPA Receptors. Journal of Neuroscience, 2014, 34, 11673-11683.	1.7	43
16	A role of TARPs in the expression and plasticity of calcium-permeable AMPARs: Evidence from cerebellar neurons and glia. Neuropharmacology, 2013, 74, 76-85.	2.0	28
17	TARP Î³-7 selectively enhances synaptic expression of calcium-permeable AMPARs. Nature Neuroscience, 2013, 16, 1266-1274.	7.1	45
18	Setting the Time Course of Inhibitory Synaptic Currents by Mixing Multiple GABAA Receptor Â Subunit Isoforms. Journal of Neuroscience, 2012, 32, 5853-5867.	1.7	83

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19	Cornichons Modify Channel Properties of Recombinant and Glial AMPA Receptors. Journal of Neuroscience, 2012, 32, 9796-9804.	1.7	86
20	Channel properties reveal differential expression of TARPed and TARPless AMPARs in stargazer neurons. Nature Neuroscience, 2012, 15, 853-861.	7.1	55
21	TARPâ€associated AMPA receptors display an increased maximum channel conductance and multiple kinetically distinct open states. Journal of Physiology, 2012, 590, 5723-5738.	1.3	39
22	Bidirectional plasticity of calcium-permeable AMPA receptors in oligodendrocyte lineage cells. Nature Neuroscience, 2011, 14, 1430-1438.	7.1	104
23	Probing TARP Modulation of AMPA Receptor Conductance with Polyamine Toxins. Journal of Neuroscience, 2011, 31, 7511-7520.	1.7	58
24	Profound Desensitization by Ambient GABA Limits Activation of Î´-Containing GABA_AReceptors during Spillover. Journal of Neuroscience, 2011, 31, 753-763.	1.7	87
25	AMPA Receptorsâ€”Another Twist?. Science, 2010, 327, 1463-1465.	6.0	10
26	Selective regulation of long-form calcium-permeable AMPA receptors by an atypical TARP, Î³-5. Nature Neuroscience, 2009, 12, 277-285.	7.1	100
27	Synaptic mGluR activation drives plasticity of calcium-permeable AMPA receptors. Nature Neuroscience, 2009, 12, 593-601.	7.1	69
28	Synaptic inhibition of Purkinje cells mediates consolidation of vestibulo-cerebellar motor learning. Nature Neuroscience, 2009, 12, 1042-1049.	7.1	268
29	The cellular, molecular and ionic basis of GABAA receptor signalling. Progress in Brain Research, 2007, 160, 59-87.	0.9	318
30	Climbingâ€fibre activation of NMDA receptors in Purkinje cells of adult mice. Journal of Physiology, 2007, 585, 91-101.	1.3	74
31	From synapse to behavior: rapid modulation of defined neuronal types with engineered GABAA receptors. Nature Neuroscience, 2007, 10, 923-929.	7.1	108
32	Stargazin attenuates intracellular polyamine block of calcium-permeable AMPA receptors. Nature Neuroscience, 2007, 10, 1260-1267.	7.1	178
33	Neurotransmitter-gated ion channels in dendrites. , 2007, , 189-224.		0
34	Differential Activation of GABAA-Receptor Subtypes. , 2007, , 87-110.		0
35	Regulation of Ca2+-permeable AMPA receptors: synaptic plasticity and beyond. Current Opinion in Neurobiology, 2006, 16, 288-297.	2.0	393
36	Variations on an inhibitory theme: phasic and tonic activation of GABAA receptors. Nature Reviews Neuroscience, 2005, 6, 215-229.	4.9	1,840

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37	Properties of GABAA receptor-mediated transmission at newly formed Golgi-granule cell synapses in the cerebellum. Neuropharmacology, 2003, 44, 181-189.	2.0	21
38	Neuroactive steroids reduce neuronal excitability by selectively enhancing tonic inhibition mediated by Â subunit-containing GABAA receptors. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 14439-14444.	3.3	714
39	Maturation of EPSCs and Intrinsic Membrane Properties Enhances Precision at a Cerebellar Synapse. Journal of Neuroscience, 2003, 23, 6074-6085.	1.7	132
40	Adaptive regulation of neuronal excitability by a voltage- independent potassium conductance. Nature, 2001, 409, 88-92.	13.7	530
41	NMDA receptor subunits: diversity, development and disease. Current Opinion in Neurobiology, 2001, 11, 327-335.	2.0	1,503
42	Insights into GABAA receptors receptor complexity from the study of cerebellar granule cells. Pharmaceutical Science Series, 2001, , 189-201.	0.0	1
43	Identification of subunits contributing to synaptic and extrasynaptic NMDA receptors in Golgi cells of the rat cerebellum. Journal of Physiology, 2000, 524, 147-162.	1.3	86
44	Single-Channel Properties of Synaptic and Extrasynaptic GABA_AReceptors Suggest Differential Targeting of Receptor Subtypes. Journal of Neuroscience, 1999, 19, 2960-2973.	1.7	222
45	NMDA receptor diversity in the cerebellum: identification of subunits contributing to functional receptors. Neuropharmacology, 1998, 37, 1369-1380.	2.0	77
46	Differences in Synaptic GABAA Receptor Number Underlie Variation in GABA Mini Amplitude. Neuron, 1997, 19, 697-709.	3.8	408
47	A Direct Comparison of the Single-Channel Properties of Synaptic and Extrasynaptic NMDA Receptors. Journal of Neuroscience, 1997, 17, 107-116.	1.7	93
48	NMDA-receptor channel diversity in the developing cerebellum. Nature, 1994, 368, 335-339.	13.7	310
49	GABA receptors, granule cells and genes. Nature, 1993, 361, 302-303.	13.7	21
50	Amino Acids: Inhibitory. , 0, , 225-250.		7