

Mark Farrant

List of Publications by Year in descending order

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Version: 2024-02-01

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	Variations on an inhibitory theme: phasic and tonic activation of GABAA receptors. <i>Nature Reviews Neuroscience</i> , 2005, 6, 215-229.	4.9	1,840
2	NMDA receptor subunits: diversity, development and disease. <i>Current Opinion in Neurobiology</i> , 2001, 11, 327-335.	2.0	1,503
3	Neuroactive steroids reduce neuronal excitability by selectively enhancing tonic inhibition mediated by α subunit-containing GABAA receptors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 14439-14444.	3.3	714
4	Adaptive regulation of neuronal excitability by a voltage-independent potassium conductance. <i>Nature</i> , 2001, 409, 88-92.	13.7	530
5	Differences in Synaptic GABAA Receptor Number Underlie Variation in GABA Mini Amplitude. <i>Neuron</i> , 1997, 19, 697-709.	3.8	408
6	Regulation of Ca ²⁺ -permeable AMPA receptors: synaptic plasticity and beyond. <i>Current Opinion in Neurobiology</i> , 2006, 16, 288-297.	2.0	393
7	The cellular, molecular and ionic basis of GABAA receptor signalling. <i>Progress in Brain Research</i> , 2007, 160, 59-87.	0.9	318
8	NMDA-receptor channel diversity in the developing cerebellum. <i>Nature</i> , 1994, 368, 335-339.	13.7	310
9	Synaptic inhibition of Purkinje cells mediates consolidation of vestibulo-cerebellar motor learning. <i>Nature Neuroscience</i> , 2009, 12, 1042-1049.	7.1	268
10	Single-Channel Properties of Synaptic and Extrasynaptic GABA _A Receptors Suggest Differential Targeting of Receptor Subtypes. <i>Journal of Neuroscience</i> , 1999, 19, 2960-2973.	1.7	222
11	Stargazin attenuates intracellular polyamine block of calcium-permeable AMPA receptors. <i>Nature Neuroscience</i> , 2007, 10, 1260-1267.	7.1	178
12	GABAergic regulation of cerebellar NG2 cell development is altered in perinatal white matter injury. <i>Nature Neuroscience</i> , 2015, 18, 674-682.	7.1	167
13	Maturation of EPSCs and Intrinsic Membrane Properties Enhances Precision at a Cerebellar Synapse. <i>Journal of Neuroscience</i> , 2003, 23, 6074-6085.	1.7	132
14	From synapse to behavior: rapid modulation of defined neuronal types with engineered GABAA receptors. <i>Nature Neuroscience</i> , 2007, 10, 923-929.	7.1	108
15	Bidirectional plasticity of calcium-permeable AMPA receptors in oligodendrocyte lineage cells. <i>Nature Neuroscience</i> , 2011, 14, 1430-1438.	7.1	104
16	Selective regulation of long-form calcium-permeable AMPA receptors by an atypical TARP, β -5. <i>Nature Neuroscience</i> , 2009, 12, 277-285.	7.1	100
17	A Direct Comparison of the Single-Channel Properties of Synaptic and Extrasynaptic NMDA Receptors. <i>Journal of Neuroscience</i> , 1997, 17, 107-116.	1.7	93
18	Profound Desensitization by Ambient GABA Limits Activation of γ -Containing GABA _A Receptors during Spillover. <i>Journal of Neuroscience</i> , 2011, 31, 753-763.	1.7	87

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19	Identification of subunits contributing to synaptic and extrasynaptic NMDA receptors in Golgi cells of the rat cerebellum. <i>Journal of Physiology</i> , 2000, 524, 147-162.	1.3	86
20	Cornichons Modify Channel Properties of Recombinant and Glial AMPA Receptors. <i>Journal of Neuroscience</i> , 2012, 32, 9796-9804.	1.7	86
21	An Essential Role for the Tetraspanin LHFPL4 in the Cell-Type-Specific Targeting and Clustering of Synaptic GABA A Receptors. <i>Cell Reports</i> , 2017, 21, 70-83.	2.9	85
22	Setting the Time Course of Inhibitory Synaptic Currents by Mixing Multiple GABAA Receptor \hat{A} Subunit Isoforms. <i>Journal of Neuroscience</i> , 2012, 32, 5853-5867.	1.7	83
23	NMDA receptor diversity in the cerebellum: identification of subunits contributing to functional receptors. <i>Neuropharmacology</i> , 1998, 37, 1369-1380.	2.0	77
24	Climbing fibre activation of NMDA receptors in Purkinje cells of adult mice. <i>Journal of Physiology</i> , 2007, 585, 91-101.	1.3	74
25	Synaptic mGluR activation drives plasticity of calcium-permeable AMPA receptors. <i>Nature Neuroscience</i> , 2009, 12, 593-601.	7.1	69
26	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, 728-740.	2.9	63
27	Auxiliary Subunit GSG1L Acts to Suppress Calcium-Permeable AMPA Receptor Function. <i>Journal of Neuroscience</i> , 2015, 35, 16171-16179.	1.7	59
28	Probing TARP Modulation of AMPA Receptor Conductance with Polyamine Toxins. <i>Journal of Neuroscience</i> , 2011, 31, 7511-7520.	1.7	58
29	Channel properties reveal differential expression of TARPed and TARPless AMPARs in stargazer neurons. <i>Nature Neuroscience</i> , 2012, 15, 853-861.	7.1	55
30	TARP $\hat{3}$ -7 selectively enhances synaptic expression of calcium-permeable AMPARs. <i>Nature Neuroscience</i> , 2013, 16, 1266-1274.	7.1	45
31	Molecular Mechanisms Contributing to TARP Regulation of Channel Conductance and Polyamine Block of Calcium-Permeable AMPA Receptors. <i>Journal of Neuroscience</i> , 2014, 34, 11673-11683.	1.7	43
32	Synapse-specific expression of calcium-permeable AMPA receptors in neocortical layer 5. <i>Journal of Physiology</i> , 2016, 594, 837-861.	1.3	41
33	TARP-associated AMPA receptors display an increased maximum channel conductance and multiple kinetically distinct open states. <i>Journal of Physiology</i> , 2012, 590, 5723-5738.	1.3	39
34	Ca ²⁺ -permeable AMPA receptors and their auxiliary subunits in synaptic plasticity and disease. <i>Journal of Physiology</i> , 2021, 599, 2655-2671.	1.3	38
35	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.	2.0	28
36	Dual Effects of TARP $\hat{3}$ -2 on Glutamate Efficacy Can Account for AMPA Receptor Autoinactivation. <i>Cell Reports</i> , 2017, 20, 1123-1135.	2.9	28

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37	Synapse Type-Dependent Expression of Calcium-Permeable AMPA Receptors. <i>Frontiers in Synaptic Neuroscience</i> , 2018, 10, 34.	1.3	25
38	Homomeric GluA2(R) AMPA receptors can conduct when desensitized. <i>Nature Communications</i> , 2019, 10, 4312.	5.8	22
39	GABA receptors, granule cells and genes. <i>Nature</i> , 1993, 361, 302-303.	13.7	21
40	Properties of GABAA receptor-mediated transmission at newly formed Golgi-granule cell synapses in the cerebellum. <i>Neuropharmacology</i> , 2003, 44, 181-189.	2.0	21
41	TARP $\hat{\beta}$ -2 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.	1.7	21
42	Transmembrane AMPAR Regulatory Protein $\hat{\beta}$ -2 Is Required for the Modulation of GABA Release by Presynaptic AMPARs. <i>Journal of Neuroscience</i> , 2015, 35, 4203-4214.	1.7	14
43	Transient developmental imbalance of cortical interneuron subtypes presages long-term changes in behavior. <i>Cell Reports</i> , 2021, 35, 109249.	2.9	11
44	AMPA Receptorsâ€™ Another Twist?. <i>Science</i> , 2010, 327, 1463-1465.	6.0	10
45	Amino Acids: Inhibitory. , 0, , 225-250.		7
46	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, ENEURO.0387-17.2018.	0.9	5
47	Influence of the TARP $\hat{\beta}$ -8-Selective Negative Allosteric Modulator JNJ-55511118 on AMPA Receptor Gating and Channel Conductance. <i>Molecular Pharmacology</i> , 2022, 101, 343-356.	1.0	5
48	Insights into GABAA receptors receptor complexity from the study of cerebellar granule cells. <i>Pharmaceutical Science Series</i> , 2001, , 189-201.	0.0	1
49	Neurotransmitter-gated ion channels in dendrites. , 2007, , 189-224.		0
50	Differential Activation of GABAA-Receptor Subtypes. , 2007, , 87-110.		0