Richard L Huganir

List of Publications by Year
in descending order

159 papers	28,331 citations	9784 73 h-index	6471 157 g-index
176 all docs	176 docs citations	176 times ranked	22374 citing authors

#	Article	IF	Citations
1	Identification of Synaptic DGKÎ¸ Interactors That Stimulate DGKÎ¸ Activity. Frontiers in Synaptic Neuroscience, 2022, 14, 855673.	2.5	2
2	Differential expression patterns of phospholipase D isoforms 1 and 2 in the mammalian brain and retina. Journal of Lipid Research, 2022, 63, 100247.	4.2	2
3	Arc weakens synapses by dispersing AMPA receptors from postsynaptic density via modulating PSD phase separation. Cell Research, 2022, 32, 914-930.	12.0	8
4	An ultrasensitive biosensor for high-resolution kinase activity imaging in awake mice. Nature Chemical Biology, 2021, 17, 39-46.	8.0	61
5	Increased novelty-induced locomotion, sensitivity to amphetamine, and extracellular dopamine in striatum of Zdhhc15-deficient mice. Translational Psychiatry, 2021, 11, 65.	4.8	12
6	An optimized CRISPR/Cas9 approach for precise genome editing in neurons. ELife, 2021, 10, .	6.0	39
7	The Immediate Early Gene Arc Is Not Required for Hippocampal Long-Term Potentiation. Journal of Neuroscience, 2021, 41, 4202-4211.	3.6	13
8	AMPA Receptors Exist in Tunable Mobile and Immobile Synaptic Fractions<i>In Vivo</i>. ENeuro, 2021, 8, ENEURO.0015-21.2021.	1.9	16
9	An Ultrasensitive PKA Biosensor for Multiâ€modal Kinase Activity Detection and Highâ€Resolution Imaging in Awake Mice. FASEB Journal, 2021, 35, .	0.5	0
10	All-or-none disconnection of pyramidal inputs onto parvalbumin-positive interneurons gates ocular dominance plasticity. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	9
11	Visualizing synaptic plasticity in vivo by large-scale imaging of endogenous AMPA receptors. ELife, 2021, 10, .	6.0	33
12	Contribution of D1R-expressing neurons of the dorsal dentate gyrus and Cav1.2 channels in extinction of cocaine conditioned place preference. Neuropsychopharmacology, 2020, 45, 1506-1517.	5.4	9
13	Cortical Synaptic AMPA Receptor Plasticity during Motor Learning. Neuron, 2020, 105, 895-908.e5.	8.1	85
14	GRIP1 regulates synaptic plasticity and learning and memory. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 25085-25091.	7.1	40
15	Low-Dose Perampanel Rescues Cortical Gamma Dysregulation Associated With Parvalbumin Interneuron GluA2 Upregulation in Epileptic Syngap1+/âˆ’ Mice. Biological Psychiatry, 2020, 87, 829-842.	1.3	34
16	SynGAP splice variants display heterogeneous spatioâ€temporal expression and subcellular distribution in the developing mammalian brain. Journal of Neurochemistry, 2020, 154, 618-634.	3.9	26
17	Tyrosine phosphorylation of the AMPA receptor subunit GluA2 gates homeostatic synaptic plasticity. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 4948-4958.	7.1	20
18	Subunit-Specific Augmentation of AMPA Receptor Ubiquitination by Phorbol Ester. Cellular and Molecular Neurobiology, 2020, 40, 1213-1222.	3.3	7

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19	Signature Fragment Ions of Biotinylated Peptides. Journal of the American Society for Mass Spectrometry, 2020, 31, 394-404.	2.8	8
20	Twenty Years of SynGAP Research: From Synapses to Cognition. Journal of Neuroscience, 2020, 40, 1596-1605.	3.6	96
21	Lamina-specific AMPA receptor dynamics following visual deprivation in vivo. ELife, 2020, 9, .	6.0	19
22	SynGAP isoforms differentially regulate synaptic plasticity and dendritic development. ELife, 2020, 9, .	6.0	60
23	Tumor Suppression of Ras GTPase-Activating Protein RASA5 through Antagonizing Ras Signaling Perturbation in Carcinomas. IScience, 2019, 21, 1-18.	4.1	12
24	Purkinje cell-specific Grip1/2 knockout mice show increased repetitive self-grooming and enhanced mGluR5 signaling in cerebellum. Neurobiology of Disease, 2019, 132, 104602.	4.4	14
25	Arc Oligomerization Is Regulated by CaMKII Phosphorylation of the GAG Domain: An Essential Mechanism for Plasticity and Memory Formation. Molecular Cell, 2019, 75, 13-25.e5.	9.7	31
26	SynGO: An Evidence-Based, Expert-Curated Knowledge Base for the Synapse. Neuron, 2019, 103, 217-234.e4.	8.1	518
27	Affected Sib-Pair Analyses Identify Signaling Networks Associated With Social Behavioral Deficits in Autism. Frontiers in Genetics, 2019, 10, 1186.	2.3	2
28	Brain-specific Drp1 regulates postsynaptic endocytosis and dendrite formation independently of mitochondrial division. ELife, 2019, 8, .	6.0	26
29	BioSITe: A Method for Direct Detection and Quantitation of Site-Specific Biotinylation. Journal of Proteome Research, 2018, 17, 759-769.	3.7	70
30	Ras and Rap Signal Bidirectional Synaptic Plasticity via Distinct Subcellular Microdomains. Neuron, 2018, 98, 783-800.e4.	8.1	68
31	Identification of long-lived synaptic proteins by proteomic analysis of synaptosome protein turnover. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E3827-E3836.	7.1	122
32	Phosphatidic acid-producing enzymes regulating the synaptic vesicle cycle: Role for PLD?. Advances in Biological Regulation, 2018, 67, 141-147.	2.3	11
33	Single-fluorophore biosensors for sensitive and multiplexed detection of signalling activities. Nature Cell Biology, 2018, 20, 1215-1225.	10.3	112
34	The AMPA Receptor Code of Synaptic Plasticity. Neuron, 2018, 100, 314-329.	8.1	567
35	Potent PDZ-Domain PICK1 Inhibitors that Modulate Amyloid Beta-Mediated Synaptic Dysfunction. Scientific Reports, 2018, 8, 13438.	3.3	13
36	Mitochondrial Stasis Reveals p62-Mediated Ubiquitination in Parkin-Independent Mitophagy and Mitigates Nonalcoholic Fatty Liver Disease. Cell Metabolism, 2018, 28, 588-604.e5.	16.2	180

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37	Wnt5a is essential for hippocampal dendritic maintenance and spatial learning and memory in adult mice. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E619-E628.	7.1	57
38	O-GlcNAc transferase regulates excitatory synapse maturity. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 1684-1689.	7.1	71
39	Homer1a drives homeostatic scaling-down of excitatory synapses during sleep. Science, 2017, 355, 511-515.	12.6	398
40	Mice lacking GRIP1/2 show increased social interactions and enhanced phosphorylation at GluA2-S880. Behavioural Brain Research, 2017, 321, 176-184.	2.2	12
41	GRASP1 Regulates Synaptic Plasticity and Learning through Endosomal Recycling of AMPA Receptors. Neuron, 2017, 93, 1405-1419.e8.	8.1	44
42	BRaf signaling principles unveiled by large-scale human mutation analysis with a rapid lentivirus-based gene replacement method. Genes and Development, 2017, 31, 537-552.	5.9	20
43	Dynamic imaging of AMPA receptor trafficking in vitro and in vivo. Current Opinion in Neurobiology, 2017, 45, 51-58.	4.2	38
44	GluA1 subunit ubiquitination mediates amyloid-Î²-induced loss of surface Î±-amino-3-hydroxy-5-methyl-4-isoxazolepropionic acid (AMPA) receptors. Journal of Biological Chemistry, 2017, 292, 8186-8194.	3.4	53
45	Extinction of Contextual Cocaine Memories Requires Ca_v1.2 within D1R-Expressing Cells and Recruits Hippocampal Ca_v1.2-Dependent Signaling Mechanisms. Journal of Neuroscience, 2017, 37, 11894-11911.	3.6	30
46	Selective Phosphorylation of AMPA Receptor Contributes to the Network of Long-Term Potentiation in the Anterior Cingulate Cortex. Journal of Neuroscience, 2017, 37, 8534-8548.	3.6	45
47	Neuropilin-2/PlexinA3 Receptors Associate with GluA1 and Mediate Sema3F-Dependent Homeostatic Scaling in Cortical Neurons. Neuron, 2017, 96, 1084-1098.e7.	8.1	68
48	Kif13b Regulates PNS and CNS Myelination through the Dlg1 Scaffold. PLoS Biology, 2016, 14, e1002440.	5.6	32
49	Real-Time Imaging Reveals Properties of Glutamate-Induced Arc/Arg 3.1 Translation in Neuronal Dendrites. Neuron, 2016, 91, 561-573.	8.1	57
50	Essential roles of AMPA receptor GluA1 phosphorylation and presynaptic HCN channels in fast-acting antidepressant responses of ketamine. Science Signaling, 2016, 9, ra123.	3.6	82
51	Acetylated Tau Obstructs KIBRA-Mediated Signaling in Synaptic Plasticity and Promotes Tauopathy-Related Memory Loss. Neuron, 2016, 90, 245-260.	8.1	195
52	Extensive phosphorylation of AMPA receptors in neurons. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E4920-7.	7.1	79
53	Phase Transition in Postsynaptic Densities Underlies Formation of Synaptic Complexes and Synaptic Plasticity. Cell, 2016, 166, 1163-1175.e12.	28.9	428
54	Identification of the SNARE complex mediating the exocytosis of NMDA receptors. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 12280-12285.	7.1	33

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55	DGKÎ¸ Catalytic Activity Is Required for Efficient Recycling of Presynaptic Vesicles at Excitatory Synapses. Cell Reports, 2016, 14, 200-207.	6.4	24
56	Functional Coupling with Cardiac Muscle Promotes Maturation of hPSC-Derived Sympathetic Neurons. Cell Stem Cell, 2016, 19, 95-106.	11.1	91
57	Phosphorylation of the AMPA receptor GluA1 subunit regulates memory load capacity. Brain Structure and Function, 2016, 221, 591-603.	2.3	26
58	The nutrient sensor OGT in PVN neurons regulates feeding. Science, 2016, 351, 1293-1296.	12.6	124
59	Differential vesicular sorting of AMPA and GABA _A receptors. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E922-31.	7.1	58
60	Regulation of AMPA receptor phosphorylation by the neuropeptide PACAP38. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 6712-6717.	7.1	20
61	Coexistence of Two Forms of LTP in ACC Provides a Synaptic Mechanism for the Interactions between Anxiety and Chronic Pain. Neuron, 2015, 85, 377-389.	8.1	261
62	Activity-Dependent Ubiquitination of GluA1 and GluA2 Regulates AMPA Receptor Intracellular Sorting and Degradation. Cell Reports, 2015, 10, 783-795.	6.4	108
63	Visualization of NMDA receptorâ€“dependent AMPA receptor synaptic plasticity in vivo. Nature Neuroscience, 2015, 18, 402-407.	14.8	143
64	Cocaine-evoked negative symptoms require AMPA receptor trafficking in the lateral habenula. Nature Neuroscience, 2015, 18, 376-378.	14.8	80
65	Rapid Dispersion of SynGAP from Synaptic Spines Triggers AMPA Receptor Insertion and Spine Enlargement during LTP. Neuron, 2015, 85, 173-189.	8.1	211
66	The intellectual disability protein RAB39B selectively regulates GluA2 trafficking to determine synaptic AMPAR composition. Nature Communications, 2015, 6, 6504.	12.8	93
67	GRIP1 is required for homeostatic regulation of AMPAR trafficking. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 10026-10031.	7.1	53
68	Loss of Î´-catenin function in severe autism. Nature, 2015, 520, 51-56.	27.8	145
69	Automatic Dendritic Length Quantification for High Throughput Screening of Mature Neurons. Neuroinformatics, 2015, 13, 443-458.	2.8	11
70	Glutamate Synapses in Human Cognitive Disorders. Annual Review of Neuroscience, 2015, 38, 127-149.	10.7	206
71	Regulation of AMPA receptor subunit GluA1 surface expression by PAK3 phosphorylation. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E5883-90.	7.1	55
72	The C9orf72 repeat expansion disrupts nucleocytoplasmic transport. Nature, 2015, 525, 56-61.	27.8	835

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73	Sorting Nexin 27 regulates basal and activity-dependent trafficking of AMPARs. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 11840-11845.	7.1	77
74	GluA1 Phosphorylation Contributes to Postsynaptic Amplification of Neuropathic Pain in the Insular Cortex. Journal of Neuroscience, 2014, 34, 13505-13515.	3.6	75
75	Young and old Pavlovian fear memories can be modified with extinction training during reconsolidation in humans. Learning and Memory, 2014, 21, 338-341.	1.3	68
76	PKA-GluA1 Coupling via AKAP5 Controls AMPA Receptor Phosphorylation and Cell-Surface Targeting during Bidirectional Homeostatic Plasticity. Neuron, 2014, 84, 790-805.	8.1	129
77	Synaptoâ€depressive effects of amyloid beta require <scp>PICK</scp>1. European Journal of Neuroscience, 2014, 39, 1225-1233.	2.6	50
78	Postsynaptic insertion of AMPA receptor onto cortical pyramidal neurons in the anterior cingulate cortex after peripheral nerve injury. Molecular Brain, 2014, 7, 76.	2.6	59
79	Disruption of Glutamate Receptor-Interacting Protein in Nucleus Accumbens Enhances Vulnerability to Cocaine Relapse. Neuropsychopharmacology, 2014, 39, 759-769.	5.4	31
80	Stress Induces Pain Transition by Potentiation of AMPA Receptor Phosphorylation. Journal of Neuroscience, 2014, 34, 13737-13746.	3.6	45
81	Postsynaptic Potentiation of Corticospinal Projecting Neurons in the Anterior Cingulate Cortex after Nerve Injury. Molecular Pain, 2014, 10, 1744-8069-10-33.	2.1	84
82	Dlg5 Regulates Dendritic Spine Formation and Synaptogenesis by Controlling Subcellular N-Cadherin Localization. Journal of Neuroscience, 2014, 34, 12745-12761.	3.6	29
83	AGAP3 and Arf6 Regulate Trafficking of AMPA Receptors and Synaptic Plasticity. Journal of Neuroscience, 2013, 33, 12586-12598.	3.6	51
84	Norepinephrine Enhances a Discrete Form of Long-Term Depression during Fear Memory Storage. Journal of Neuroscience, 2013, 33, 11825-11832.	3.6	31
85	Adrenergic Gating of Hebbian Spike-Timing-Dependent Plasticity in Cortical Interneurons. Journal of Neuroscience, 2013, 33, 13171-13178.	3.6	80
86	AMPARs and Synaptic Plasticity: The Last 25 Years. Neuron, 2013, 80, 704-717.	8.1	797
87	PICK1 interacts with PACSIN to regulate AMPA receptor internalization and cerebellar long-term depression. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 13976-13981.	7.1	68
88	PKM-Î¶ is not required for hippocampal synaptic plasticity, learning and memory. Nature, 2013, 493, 420-423.	27.8	278
89	S-nitrosylation of AMPA receptor GluA1 regulates phosphorylation, single-channel conductance, and endocytosis. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 1077-1082.	7.1	86
90	High-Throughput Genetic Screen for Synaptogenic Factors: Identification of LRP6 as Critical for Excitatory Synapse Development. Cell Reports, 2013, 5, 1330-1341.	6.4	52

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91	Palmitoylation by DHHC5/8 Targets GRIP1 to Dendritic Endosomes to Regulate AMPA-R Trafficking. Neuron, 2012, 73, 482-496.	8.1	155
92	Regulation of AMPA receptor trafficking and synaptic plasticity. Current Opinion in Neurobiology, 2012, 22, 461-469.	4.2	479
93	Gain-of-function glutamate receptor interacting protein 1 variants alter GluA2 recycling and surface distribution in patients with autism. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 4920-4925.	7.1	74
94	Regulation of AMPA Receptor Function by the Human Memory-Associated Gene KIBRA. Neuron, 2011, 71, 1022-1029.	8.1	125
95	Phosphorylation of AMPA Receptors Is Required for Sensory Deprivation-Induced Homeostatic Synaptic Plasticity. PLoS ONE, 2011, 6, e18264.	2.5	85
96	Preserved Acute Pain and Impaired Neuropathic Pain in Mice Lacking Protein Interacting with C Kinase 1. Molecular Pain, 2011, 7, 1744-8069-7-11.	2.1	33
97	PICK1 Loss of Function Occludes Homeostatic Synaptic Scaling. Journal of Neuroscience, 2011, 31, 2188-2196.	3.6	96
98	Arc-dependent synapse-specific homeostatic plasticity. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 816-821.	7.1	165
99	Enhanced synaptic plasticity in mice with phosphomimetic mutation of the GluA1 AMPA receptor. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 8450-8455.	7.1	65
100	Mechanism of Ca2+/calmodulin-dependent kinase II regulation of AMPA receptor gating. Nature Neuroscience, 2011, 14, 727-735.	14.8	241
101	Spinal cord protein interacting with C kinase 1 is required for the maintenance of complete Freund's adjuvant-induced inflammatory pain but not for incision-induced post-operative pain. Pain, 2010, 151, 226-234.	4.2	44
102	GRIP1 and 2 regulate activity-dependent AMPA receptor recycling via exocyst complex interactions. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 19038-19043.	7.1	64
103	Identification of a small-molecule inhibitor of the PICK1 PDZ domain that inhibits hippocampal LTP and LTD. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 413-418.	7.1	100
104	Specific Roles of AMPA Receptor Subunit GluR1 (GluA1) Phosphorylation Sites in Regulating Synaptic Plasticity in the CA1 Region of Hippocampus. Journal of Neurophysiology, 2010, 103, 479-489.	1.8	223
105	Developmental regulation of protein interacting with C kinase 1 (PICK1) function in hippocampal synaptic plasticity and learning. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 21784-21789.	7.1	75
106	Regulation of AMPA receptor extrasynaptic insertion by 4.1N, phosphorylation and palmitoylation. Nature Neuroscience, 2009, 12, 879-887.	14.8	317
107	Rapid and bi-directional regulation of AMPA receptor phosphorylation and trafficking by JNK. EMBO Journal, 2008, 27, 361-372.	7.8	71
108	Surface Mobility of Postsynaptic AMPARs Tunes Synaptic Transmission. Science, 2008, 320, 201-205.	12.6	433

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109	A necessary role for GluR1 serine 831 phosphorylation in appetitive incentive learning. Behavioural Brain Research, 2008, 191, 178-183.	2.2	40
110	The Glutamate Receptor-Interacting Protein Family of GluR2-Binding Proteins Is Required for Long-Term Synaptic Depression Expression in Cerebellar Purkinje Cells. Journal of Neuroscience, 2008, 28, 5752-5755.	3.6	68
111	PICK1 and Phosphorylation of the Glutamate Receptor 2 (GluR2) AMPA Receptor Subunit Regulates GluR2 Recycling after NMDA Receptor-Induced Internalization. Journal of Neuroscience, 2007, 27, 13903-13908.	3.6	150
112	Neuromodulators Control the Polarity of Spike-Timing-Dependent Synaptic Plasticity. Neuron, 2007, 55, 919-929.	8.1	363
113	The Cell Biology of Synaptic Plasticity: AMPA Receptor Trafficking. Annual Review of Cell and Developmental Biology, 2007, 23, 613-643.	9.4	849
114	Targeted In Vivo Mutations of the AMPA Receptor Subunit GluR2 and Its Interacting Protein PICK1 Eliminate Cerebellar Long-Term Depression. Neuron, 2006, 49, 845-860.	8.1	266
115	Synaptic Incorporation of AMPA Receptors during LTP Is Controlled by a PKC Phosphorylation Site on GluR1. Neuron, 2006, 51, 213-225.	8.1	324
116	Arc/Arg3.1 Interacts with the Endocytic Machinery to Regulate AMPA Receptor Trafficking. Neuron, 2006, 52, 445-459.	8.1	691
117	Arc/Arg3.1 Mediates Homeostatic Synaptic Scaling of AMPA Receptors. Neuron, 2006, 52, 475-484.	8.1	684
118	SynGAP regulates synaptic strength and mitogen-activated protein kinases in cultured neurons. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 4344-4351.	7.1	228
119	Calcium-Permeable AMPA Receptor Plasticity Is Mediated by Subunit-Specific Interactions with PICK1 and NSF. Neuron, 2005, 45, 903-915.	8.1	227
120	Tyrosine Phosphorylation and Regulation of the AMPA Receptor by Src Family Tyrosine Kinases. Journal of Neuroscience, 2004, 24, 6152-6160.	3.6	167
121	MAPK cascade signalling and synaptic plasticity. Nature Reviews Neuroscience, 2004, 5, 173-183.	10.2	1,264
122	PKA phosphorylation of AMPA receptor subunits controls synaptic trafficking underlying plasticity. Nature Neuroscience, 2003, 6, 136-143.	14.8	767
123	Requirement of AMPA Receptor GluR2 Phosphorylation for Cerebellar Long-Term Depression. Science, 2003, 300, 1751-1755.	12.6	320
124	Phosphorylation of the AMPA Receptor GluR1 Subunit Is Required for Synaptic Plasticity and Retention of Spatial Memory. Cell, 2003, 112, 631-643.	28.9	699
125	Glutamate Receptor Subunit 2 Serine 880 Phosphorylation Modulates Synaptic Transmission and Mediates Plasticity in CA1 Pyramidal Cells. Journal of Neuroscience, 2003, 23, 9220-9228.	3.6	202
126	The Role of Synaptic GTPase-Activating Protein in Neuronal Development and Synaptic Plasticity. Journal of Neuroscience, 2003, 23, 1119-1124.	3.6	213

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127	Activation of Silent Synapses by Rapid Activity-Dependent Synaptic Recruitment of AMPA Receptors. Journal of Neuroscience, 2001, 21, 6008-6017.	3.6	250
128	Coupling of agonist-induced AMPA receptor internalization with receptor recycling. Journal of Neurochemistry, 2001, 77, 1626-1631.	3.9	31
129	Regulation of distinct AMPA receptor phosphorylation sites during bidirectional synaptic plasticity. Nature, 2000, 405, 955-959.	27.8	996
130	Postsynaptic organisation and regulation of excitatory synapses. Nature Reviews Neuroscience, 2000, 1, 133-141.	10.2	433
131	A light and electron microscopic study of glutamate receptors in the monkey subthalamic nucleus. Journal of Neurocytology, 2000, 29, 743-754.	1.5	14
132	Phosphorylation of the AMPA Receptor Subunit GluR2 Differentially Regulates Its Interaction with PDZ Domain-Containing Proteins. Journal of Neuroscience, 2000, 20, 7258-7267.	3.6	509
133	Detection of Protein Phosphorylation in Tissues and Cells. Current Protocols in Neuroscience, 2000, 11, Unit 5.14.	2.6	3
134	Characterization, Expression, and Distribution of GRIP Protein. Annals of the New York Academy of Sciences, 1999, 868, 535-540.	3.8	31
135	Phosphorylation of DARPP-32 by Cdk5 modulates dopamine signalling in neurons. Nature, 1999, 402, 669-671.	27.8	538
136	Regulation of morphological postsynaptic silent synapses in developing hippocampal neurons. Nature Neuroscience, 1999, 2, 37-43.	14.8	365
137	Rapid, experience-dependent expression of synaptic NMDA receptors in visual cortex in vivo. Nature Neuroscience, 1999, 2, 352-357.	14.8	519
138	Clustering of AMPA Receptors by the Synaptic PDZ Domainâ€“Containing Protein PICK1. Neuron, 1999, 22, 179-187.	8.1	523
139	Characterization of phosphotyrosine containing proteins at the cholinergic synapse. FEBS Letters, 1999, 446, 95-102.	2.8	10
140	Activity-Dependent Modulation of Synaptic AMPA Receptor Accumulation. Neuron, 1998, 21, 1067-1078.	8.1	606
141	NMDA Induces Long-Term Synaptic Depression and Dephosphorylation of the GluR1 Subunit of AMPA Receptors in Hippocampus. Neuron, 1998, 21, 1151-1162.	8.1	617
142	SynGAP: a Synaptic RasGAP that Associates with the PSD-95/SAP90 Protein Family. Neuron, 1998, 20, 683-691.	8.1	585
143	Characterization of the tyrosine phosphorylation and distribution of dystrobrevin isoforms. FEBS Letters, 1998, 432, 133-140.	2.8	40
144	Identification of aTorpedohomolog of Sam68 that interacts with the synapse organizing protein rapsyn. FEBS Letters, 1998, 437, 29-33.	2.8	5

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145	Phosphorylation of the Î±-Amino-3-hydroxy-5-methylisoxazole4-propionic Acid Receptor GluR1 Subunit by Calcium/ Calmodulin-dependent Kinase II. Journal of Biological Chemistry, 1997, 272, 32528-32533.	3.4	382
146	Redistribution and Stabilization of Cell Surface Glutamate Receptors during Synapse Formation. Journal of Neuroscience, 1997, 17, 7351-7358.	3.6	193
147	GRIP: a synaptic PDZ domain-containing protein that interacts with AMPA receptors. Nature, 1997, 386, 279-284.	27.8	812
148	Immunocytochemical localization of the mGluR1? metabotropic glutamate receptor in the dorsal cochlear nucleus. , 1996, 364, 729-745.		58
149	Non-NMDA glutamate receptors are present throughout the primate hypothalamus. Journal of Comparative Neurology, 1995, 353, 539-552.	1.6	21
150	Tyrosine and Serine Phosphorylation of Dystrophin and the 58â€kDa Protein in the Postsynaptic Membrane of <i>Torpedo</i> Electric Organ. Journal of Neurochemistry, 1994, 62, 1947-1952.	3.9	22
151	Phosphorylation of recombinant non-NMDA glutamate receptors on serine and tyrosine residues. Neurochemical Research, 1993, 18, 105-110.	3.3	42
152	Regulation of NMDA receptor phosphorylation by alternative splicing of the C-terminal domain. Nature, 1993, 364, 70-73.	27.8	420
153	Phosphorylation and modulation of recombinant GluR6 glutamate receptors by cAMP-dependent protein kinase. Nature, 1993, 361, 637-641.	27.8	288
154	The Î±1,Î±2, and Î±3 Subunits of GABAA Receptors: Comparison in Seizure-Prone and -Resistant Mice and during Development. Journal of Molecular Neuroscience, 1992, 3, 177-184.	2.3	43
155	Phosphorylation of ligandâ€gated ion channels: a possible mode of synaptic plasticity. FASEB Journal, 1992, 6, 2514-2523.	0.5	230
156	Quantal calcium release by purified reconstituted inositol 1,4,5-trisphosphate receptors. Nature, 1992, 356, 350-352.	27.8	138
157	Biochemical Characterization and Localization of a Non-N-Methyl-D-Aspartate Glutamate Receptor in Rat Brain. Journal of Neurochemistry, 1992, 58, 1118-1126.	3.9	237
158	Immunological detection of glutamate receptor subtypes in human central nervous system. Annals of Neurology, 1992, 31, 680-683.	5.3	65
159	Generation of Two Forms of the ?-Aminobutyric AcidAReceptor ?-2-Subunit in Mice by Alternative Splicing. Journal of Neurochemistry, 1991, 56, 713-715.	3.9	195