

Morgan Sheng

List of Publications by Year in Descending Order

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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.

227
papers

50,105
citations

123
h-index

223
g-index

248
ext. papers

55,337
ext. citations

13.9
avg, IF

7.62
L-index

#	Paper	IF	Citations
227	NMDA receptor-dependent prostaglandin-endoperoxide synthase 2 induction in neurons promotes glial proliferation during brain development and injury.. <i>Cell Reports</i> , 2022 , 38, 110557	10.6	1
226	Multiple sclerosis risk gene MERTK is required for microglial activation and subsequent remyelination. <i>Cell Reports</i> , 2021 , 34, 108835	10.6	18
225	TREM2 restrains the enhancement of tau accumulation and neurodegeneration by β -amyloid pathology. <i>Neuron</i> , 2021 , 109, 1283-1301.e6	13.9	42
224	Regulation of purine metabolism connects KCTD13 to a metabolic disorder with autistic features. <i>iScience</i> , 2021 , 24, 101935	6.1	1
223	TREM2-independent oligodendrocyte, astrocyte, and T cell responses to tau and amyloid pathology in mouse models of Alzheimer disease.. <i>Cell Reports</i> , 2021 , 37, 110158	10.6	2
222	PCDH7 interacts with GluN1 and regulates dendritic spine morphology and synaptic function. <i>Scientific Reports</i> , 2020 , 10, 10951	4.9	2
221	TREM2 Deletion Reduces Late-Stage Amyloid Plaque Accumulation, Elevates the A β 2:A β 0 Ratio, and Exacerbates Axonal Dystrophy and Dendritic Spine Loss in the PS2APP Alzheimer β Mouse Model. <i>Journal of Neuroscience</i> , 2020 , 40, 1956-1974	6.6	55
220	GluN2A NMDA Receptor Enhancement Improves Brain Oscillations, Synchrony, and Cognitive Functions in Dravet Syndrome and Alzheimer β Disease Models. <i>Cell Reports</i> , 2020 , 30, 381-396.e4	10.6	20
219	Global site-specific neddylation profiling reveals that NEDDylated cofilin regulates actin dynamics. <i>Nature Structural and Molecular Biology</i> , 2020 , 27, 210-220	17.6	33
218	Genome-Wide Analysis of Differential Gene Expression and Splicing in Excitatory Neurons and Interneuron Subtypes. <i>Journal of Neuroscience</i> , 2020 , 40, 958-973	6.6	17
217	Microglia in Brain Development, Homeostasis, and Neurodegeneration. <i>Annual Review of Genetics</i> , 2019 , 53, 263-288	14.5	45
216	SynGO: An Evidence-Based, Expert-Curated Knowledge Base for the Synapse. <i>Neuron</i> , 2019 , 103, 217-234.e4	13.9	147
215	PTCD1 Is Required for Mitochondrial Oxidative-Phosphorylation: Possible Genetic Association with Alzheimer β Disease. <i>Journal of Neuroscience</i> , 2019 , 39, 4636-4656	6.6	11
214	Complement C3 Is Activated in Human AD Brain and Is Required for Neurodegeneration in Mouse Models of Amyloidosis and Tauopathy. <i>Cell Reports</i> , 2019 , 28, 2111-2123.e6	10.6	119
213	Morgan Sheng. <i>Nature Reviews Drug Discovery</i> , 2018 , 17, 88-89	64.1	2
212	USP8 Deubiquitinates SHANK3 to Control Synapse Density and SHANK3 Activity-Dependent Protein Levels. <i>Journal of Neuroscience</i> , 2018 , 38, 5289-5301	6.6	19
211	Microglia in Alzheimer β disease. <i>Journal of Cell Biology</i> , 2018 , 217, 459-472	7.3	581

210	Changes in the Synaptic Proteome in Tauopathy and Rescue of Tau-Induced Synapse Loss by C1q Antibodies. <i>Neuron</i> , 2018 , 100, 1322-1336.e7	13.9	174
209	TREM2, Microglia, and Neurodegenerative Diseases. <i>Trends in Molecular Medicine</i> , 2017 , 23, 512-533	11.5	199
208	A meta-analysis of genome-wide association studies identifies 17 new Parkinson's disease risk loci. <i>Nature Genetics</i> , 2017 , 49, 1511-1516	36.3	629
207	Progranulin deficiency causes impairment of autophagy and TDP-43 accumulation. <i>Journal of Experimental Medicine</i> , 2017 , 214, 2611-2628	16.6	70
206	TREM2 Binds to Apolipoproteins, Including APOE and CLU/APOJ, and Thereby Facilitates Uptake of Amyloid-Beta by Microglia. <i>Neuron</i> , 2016 , 91, 328-40	13.9	412
205	Positive Allosteric Modulators of GluN2A-Containing NMDARs with Distinct Modes of Action and Impacts on Circuit Function. <i>Neuron</i> , 2016 , 89, 983-99	13.9	110
204	Characterization of social behaviors in caspase-3 deficient mice. <i>Scientific Reports</i> , 2016 , 6, 18335	4.9	28
203	Mechanisms of mitophagy: PINK1, Parkin, USP30 and beyond. <i>Free Radical Biology and Medicine</i> , 2016 , 100, 210-222	7.8	159
202	Interfering with the Chronic Immune Response Rescues Chronic Degeneration After Traumatic Brain Injury. <i>Journal of Neuroscience</i> , 2016 , 36, 9962-75	6.6	55
201	Caspase-3 deficiency results in disrupted synaptic homeostasis and impaired attention control. <i>Journal of Neuroscience</i> , 2015 , 35, 2118-32	6.6	27
200	Local pruning of dendrites and spines by caspase-3-dependent and proteasome-limited mechanisms. <i>Journal of Neuroscience</i> , 2014 , 34, 1672-88	6.6	131
199	Long-term depression: a cell biological view. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2014 , 369, 20130138	5.8	25
198	Regulation of neuronal gene expression and survival by basal NMDA receptor activity: a role for histone deacetylase 4. <i>Journal of Neuroscience</i> , 2014 , 34, 15327-39	6.6	24
197	Activity-induced Nr4a1 regulates spine density and distribution pattern of excitatory synapses in pyramidal neurons. <i>Neuron</i> , 2014 , 83, 431-443	13.9	62
196	The mitochondrial deubiquitinase USP30 opposes parkin-mediated mitophagy. <i>Nature</i> , 2014 , 510, 370-5	50.4	506
195	A Septin-Dependent Diffusion Barrier at Dendritic Spine Necks. <i>PLoS ONE</i> , 2014 , 9, e113916	3.7	63
194	Phosphorylation of threonine-19 of PSD-95 by GSK-3 β is required for PSD-95 mobilization and long-term depression. <i>Journal of Neuroscience</i> , 2013 , 33, 12122-35	6.6	84
193	NMDA receptors in nervous system diseases. <i>Neuropharmacology</i> , 2013 , 74, 69-75	5.5	166

192	Specific trans-synaptic interaction with inhibitory interneuronal neurexin underlies differential ability of neuroligins to induce functional inhibitory synapses. <i>Journal of Neuroscience</i> , 2013 , 33, 3612-23	6.6	39
191	GluN2B antagonism affects interneurons and leads to immediate and persistent changes in synaptic plasticity, oscillations, and behavior. <i>Neuropsychopharmacology</i> , 2013 , 38, 1221-33	8.7	43
190	Gpr3 stimulates A β production via interactions with APP and Errestin2. <i>PLoS ONE</i> , 2013 , 8, e74680	3.7	24
189	Functional anatomy of neural circuits regulating fear and extinction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 17093-8	11.5	132
188	Caspases in synaptic plasticity. <i>Molecular Brain</i> , 2012 , 5, 15	4.5	60
187	Three-dimensional imaging of solvent-cleared organs using 3DISCO. <i>Nature Protocols</i> , 2012 , 7, 1983-95	18.8	613
186	NMDA receptors and BAX are essential for A β impairment of LTP. <i>Scientific Reports</i> , 2012 , 2, 225	4.9	36
185	Caspase-3 in the central nervous system: beyond apoptosis. <i>Trends in Neurosciences</i> , 2012 , 35, 700-9	13.3	167
184	Association of shank 1A scaffolding protein with cone photoreceptor terminals in the mammalian retina. <i>PLoS ONE</i> , 2012 , 7, e43463	3.7	9
183	Synapses and Alzheimer's disease. <i>Cold Spring Harbor Perspectives in Biology</i> , 2012 , 4,	10.2	256
182	GKAP orchestrates activity-dependent postsynaptic protein remodeling and homeostatic scaling. <i>Nature Neuroscience</i> , 2012 , 15, 1655-66	25.5	94
181	Childhood disorders of the synapse: challenges and opportunities. <i>Science Translational Medicine</i> , 2012 , 4, 152ps17	17.5	
180	PSD-95 is required to sustain the molecular organization of the postsynaptic density. <i>Journal of Neuroscience</i> , 2011 , 31, 6329-38	6.6	193
179	Leukocyte common antigen-related phosphatase is a functional receptor for chondroitin sulfate proteoglycan axon growth inhibitors. <i>Journal of Neuroscience</i> , 2011 , 31, 14051-66	6.6	240
178	The postsynaptic organization of synapses. <i>Cold Spring Harbor Perspectives in Biology</i> , 2011 , 3,	10.2	317
177	Deconstruction for reconstruction: the role of proteolysis in neural plasticity and disease. <i>Neuron</i> , 2011 , 69, 22-32	13.9	210
176	Sociability and motor functions in Shank1 mutant mice. <i>Brain Research</i> , 2011 , 1380, 120-37	3.7	166
175	A β (1-42) inhibition of LTP is mediated by a signaling pathway involving caspase-3, Akt1 and GSK-3 β . <i>Nature Neuroscience</i> , 2011 , 14, 545-7	25.5	240

174	Communication impairments in mice lacking Shank1: reduced levels of ultrasonic vocalizations and scent marking behavior. <i>PLoS ONE</i> , 2011 , 6, e20631	3.7	157
173	Muscarinic receptors induce LTD of NMDAR EPSCs via a mechanism involving hippocalcin, AP2 and PSD-95. <i>Nature Neuroscience</i> , 2010 , 13, 1216-24	25.5	78
172	Proline-rich tyrosine kinase 2 regulates hippocampal long-term depression. <i>Journal of Neuroscience</i> , 2010 , 30, 11983-93	6.6	39
171	Distinct roles of NR2A and NR2B cytoplasmic tails in long-term potentiation. <i>Journal of Neuroscience</i> , 2010 , 30, 2676-85	6.6	163
170	MINK and TNIK differentially act on Rap2-mediated signal transduction to regulate neuronal structure and AMPA receptor function. <i>Journal of Neuroscience</i> , 2010 , 30, 14786-94	6.6	49
169	Neuron specific Rab4 effector GRASP-1 coordinates membrane specialization and maturation of recycling endosomes. <i>PLoS Biology</i> , 2010 , 8, e1000283	9.7	75
168	Autophosphorylated CaMKIIalpha acts as a scaffold to recruit proteasomes to dendritic spines. <i>Cell</i> , 2010 , 140, 567-78	56.2	216
167	Caspase-3 activation via mitochondria is required for long-term depression and AMPA receptor internalization. <i>Cell</i> , 2010 , 141, 859-71	56.2	403
166	Regulation of synaptic structure and function by FMRP-associated microRNAs miR-125b and miR-132. <i>Neuron</i> , 2010 , 65, 373-84	13.9	587
165	Regulation of Synaptic Structure and Function by FMRP-Associated MicroRNAs miR-125b and miR-132. <i>Neuron</i> , 2010 , 68, 161	13.9	2
164	Degradation of postsynaptic scaffold GKAP and regulation of dendritic spine morphology by the TRIM3 ubiquitin ligase in rat hippocampal neurons. <i>PLoS ONE</i> , 2010 , 5, e9842	3.7	75
163	Identification and characterization of neuronal mitogen-activated protein kinase substrates using a specific phosphomotif antibody. <i>Molecular and Cellular Proteomics</i> , 2009 , 8, 681-95	7.6	29
162	Regulated RalBP1 binding to RalA and PSD-95 controls AMPA receptor endocytosis and LTD. <i>PLoS Biology</i> , 2009 , 7, e1000187	9.7	53
161	The postsynaptic density. <i>Current Biology</i> , 2009 , 19, R723-4	6.3	19
160	Trans-synaptic adhesion between NGL-3 and LAR regulates the formation of excitatory synapses. <i>Nature Neuroscience</i> , 2009 , 12, 428-37	25.5	167
159	A novel mechanism of hippocampal LTD involving muscarinic receptor-triggered interactions between AMPARs, GRIP and liprin-alpha. <i>Molecular Brain</i> , 2009 , 2, 18	4.5	53
158	Synaptic Accumulation of PSD-95 and Synaptic Function Regulated by Phosphorylation of Serine-295 of PSD-95. <i>Neuron</i> , 2008 , 57, 326-327	13.9	1
157	Critical role of CDK5 and Polo-like kinase 2 in homeostatic synaptic plasticity during elevated activity. <i>Neuron</i> , 2008 , 58, 571-83	13.9	181

156	Metabotropic glutamate receptor-mediated LTD involves two interacting Ca(2+) sensors, NCS-1 and PICK1. <i>Neuron</i> , 2008 , 60, 1095-111	13.9	81
155	Smaller dendritic spines, weaker synaptic transmission, but enhanced spatial learning in mice lacking Shank1. <i>Journal of Neuroscience</i> , 2008 , 28, 1697-708	6.6	265
154	Activity-induced Polo-like kinase 2 is required for homeostatic plasticity of hippocampal neurons during epileptiform activity. <i>Journal of Neuroscience</i> , 2008 , 28, 6583-91	6.6	78
153	Regulation of postsynaptic RapGAP SPAR by Polo-like kinase 2 and the SCFbeta-TRCP ubiquitin ligase in hippocampal neurons. <i>Journal of Biological Chemistry</i> , 2008 , 283, 29424-32	5.4	46
152	Constitutively active Rap2 transgenic mice display fewer dendritic spines, reduced extracellular signal-regulated kinase signaling, enhanced long-term depression, and impaired spatial learning and fear extinction. <i>Journal of Neuroscience</i> , 2008 , 28, 8178-88	6.6	73
151	Synapse Loss, Synaptic Plasticity and the Postsynaptic Density 2008 , 51-62		
150	Retrograde modulation of presynaptic release probability through signaling mediated by PSD-95-neuroigin. <i>Nature Neuroscience</i> , 2007 , 10, 186-95	25.5	224
149	Differential roles of Rap1 and Rap2 small GTPases in neurite retraction and synapse elimination in hippocampal spiny neurons. <i>Journal of Neurochemistry</i> , 2007 , 100, 118-31	6	70
148	Role of Septin cytoskeleton in spine morphogenesis and dendrite development in neurons. <i>Current Biology</i> , 2007 , 17, 1752-8	6.3	212
147	Molecular determinants for the interaction between AMPA receptors and the clathrin adaptor complex AP-2. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 2991-6	11.5	71
146	Extracellular interactions between GluR2 and N-cadherin in spine regulation. <i>Neuron</i> , 2007 , 54, 461-77	13.9	283
145	Synaptic accumulation of PSD-95 and synaptic function regulated by phosphorylation of serine-295 of PSD-95. <i>Neuron</i> , 2007 , 56, 488-502	13.9	203
144	The postsynaptic architecture of excitatory synapses: a more quantitative view. <i>Annual Review of Biochemistry</i> , 2007 , 76, 823-47	29.1	696
143	Liprinalpha1 degradation by calcium/calmodulin-dependent protein kinase II regulates LAR receptor tyrosine phosphatase distribution and dendrite development. <i>Developmental Cell</i> , 2007 , 12, 587-602	10.2	78
142	Generation of lentiviral transgenic rats expressing glutamate receptor interacting protein 1 (GRIP1) in brain, spinal cord and testis. <i>Journal of Neuroscience Methods</i> , 2006 , 152, 1-9	3	15
141	Molecular mechanisms of dendritic spine morphogenesis. <i>Current Opinion in Neurobiology</i> , 2006 , 16, 95-101	10.1	513
140	Relative and absolute quantification of postsynaptic density proteome isolated from rat forebrain and cerebellum. <i>Molecular and Cellular Proteomics</i> , 2006 , 5, 1158-70	7.6	367
139	Three-dimensional structure of an AMPA receptor without associated stargazin/TARP proteins. <i>Biological Chemistry</i> , 2006 , 387, 179-87	4.5	38

138	Selective labeling of extracellular proteins containing polyhistidine sequences by a fluorescein-nitrilotriacetic acid conjugate. <i>Journal of the American Chemical Society</i> , 2006 , 128, 418-9	16.4	96
137	Midrange affinity fluorescent Zn(II) sensors of the Zinpyr family: syntheses, characterization, and biological imaging applications. <i>Inorganic Chemistry</i> , 2006 , 45, 9748-57	5.1	65
136	Zinpyr sensors with enhanced dynamic range for imaging neuronal cell zinc uptake and mobilization. <i>Journal of the American Chemical Society</i> , 2006 , 128, 15517-28	16.4	222
135	A critical role for myosin IIb in dendritic spine morphology and synaptic function. <i>Neuron</i> , 2006 , 49, 175-82	13.9	139
134	The growing role of mTOR in neuronal development and plasticity. <i>Molecular Neurobiology</i> , 2006 , 34, 205-19	6.2	203
133	LAR receptor protein tyrosine phosphatases in the development and maintenance of excitatory synapses. <i>Nature Neuroscience</i> , 2005 , 8, 458-67	25.5	198
132	Neuroscience. Making synapses: a balancing act. <i>Science</i> , 2005 , 307, 1207-8	33.3	20
131	QZ1 and QZ2: rapid, reversible quinoline-derivatized fluoresceins for sensing biological Zn(II). <i>Journal of the American Chemical Society</i> , 2005 , 127, 16812-23	16.4	240
130	NSF interaction is important for direct insertion of GluR2 at synaptic sites. <i>Molecular and Cellular Neurosciences</i> , 2005 , 28, 650-60	4.8	35
129	Differential roles of NR2A- and NR2B-containing NMDA receptors in Ras-ERK signaling and AMPA receptor trafficking. <i>Neuron</i> , 2005 , 46, 745-60	13.9	404
128	Rap2-JNK removes synaptic AMPA receptors during depotentiation. <i>Neuron</i> , 2005 , 46, 905-16	13.9	172
127	GRIP1 controls dendrite morphogenesis by regulating EphB receptor trafficking. <i>Nature Neuroscience</i> , 2005 , 8, 906-15	25.5	177
126	Polo-like kinases in the nervous system. <i>Oncogene</i> , 2005 , 24, 292-8	9.2	72
125	Structure and different conformational states of native AMPA receptor complexes. <i>Nature</i> , 2005 , 433, 545-9	50.4	226
124	Bax/Bak-dependent release of DDP/TIMM8a promotes Drp1-mediated mitochondrial fission and mitoptosis during programmed cell death. <i>Current Biology</i> , 2005 , 15, 2112-8	6.3	182
123	The 8-kDa dynein light chain binds to p53-binding protein 1 and mediates DNA damage-induced p53 nuclear accumulation. <i>Journal of Biological Chemistry</i> , 2005 , 280, 8172-9	5.4	86
122	Control of dendritic arborization by the phosphoinositide-3Rkinase-Akt-mammalian target of rapamycin pathway. <i>Journal of Neuroscience</i> , 2005 , 25, 11300-12	6.6	460
121	Mass of the postsynaptic density and enumeration of three key molecules. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 11551-6	11.5	169

120	A tautomeric zinc sensor for ratiometric fluorescence imaging: application to nitric oxide-induced release of intracellular zinc. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 1129-34	11.5	215
119	Actin/alpha-actinin-dependent transport of AMPA receptors in dendritic spines: role of the PDZ-LIM protein RIL. <i>Journal of Neuroscience</i> , 2004 , 24, 8584-94	6.6	93
118	Cyclin-dependent kinase 5 phosphorylates the N-terminal domain of the postsynaptic density protein PSD-95 in neurons. <i>Journal of Neuroscience</i> , 2004 , 24, 865-76	6.6	187
117	Intra- and intermolecular domain interactions of the C-terminal GTPase effector domain of the multimeric dynamin-like GTPase Drp1. <i>Journal of Biological Chemistry</i> , 2004 , 279, 35967-74	5.4	144
116	Tyrosine phosphorylation of GluR2 is required for insulin-stimulated AMPA receptor endocytosis and LTD. <i>EMBO Journal</i> , 2004 , 23, 1040-50	13	242
115	PDZ domain proteins of synapses. <i>Nature Reviews Neuroscience</i> , 2004 , 5, 771-81	13.5	1207
114	Role of NMDA receptor subtypes in governing the direction of hippocampal synaptic plasticity. <i>Science</i> , 2004 , 304, 1021-4	33.3	903
113	Bright fluorescent chemosensor platforms for imaging endogenous pools of neuronal zinc. <i>Chemistry and Biology</i> , 2004 , 11, 203-10		128
112	Semiquantitative proteomic analysis of rat forebrain postsynaptic density fractions by mass spectrometry. <i>Journal of Biological Chemistry</i> , 2004 , 279, 21003-11	5.4	373
111	ZP8, a neuronal zinc sensor with improved dynamic range; imaging zinc in hippocampal slices with two-photon microscopy. <i>Inorganic Chemistry</i> , 2004 , 43, 6774-9	5.1	112
110	The importance of dendritic mitochondria in the morphogenesis and plasticity of spines and synapses. <i>Cell</i> , 2004 , 119, 873-87	56.2	1086
109	Subunit rules governing the sorting of internalized AMPA receptors in hippocampal neurons. <i>Neuron</i> , 2004 , 43, 221-36	13.9	224
108	Transcriptional Modification by a CASK-Interacting Nucleosome Assembly Protein. <i>Neuron</i> , 2004 , 43, 437	13.9	1
107	Quaternary structure, protein dynamics, and synaptic function of SAP97 controlled by L27 domain interactions. <i>Neuron</i> , 2004 , 44, 453-67	13.9	209
106	The dynamic turnover and functional roles of alpha-actinin in dendritic spines. <i>Neuropharmacology</i> , 2004 , 47, 734-45	5.5	78
105	Transcriptional modification by a CASK-interacting nucleosome assembly protein. <i>Neuron</i> , 2004 , 42, 113-239	13.9	113
104	The Shank family of postsynaptic density proteins interacts with and promotes synaptic accumulation of the beta PIX guanine nucleotide exchange factor for Rac1 and Cdc42. <i>Journal of Biological Chemistry</i> , 2003 , 278, 19220-9	5.4	129
103	Eye opening induces a rapid dendritic localization of PSD-95 in central visual neurons. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003 , 100, 1334-9	11.5	87

102	Activity-dependent redistribution and essential role of cortactin in dendritic spine morphogenesis. <i>Journal of Neuroscience</i> , 2003 , 23, 11759-69	6.6	220
101	Interaction between liprin-alpha and GIT1 is required for AMPA receptor targeting. <i>Journal of Neuroscience</i> , 2003 , 23, 1667-77	6.6	136
100	Lipid rafts in the maintenance of synapses, dendritic spines, and surface AMPA receptor stability. <i>Journal of Neuroscience</i> , 2003 , 23, 3262-71	6.6	474
99	Inhibition of dendritic spine morphogenesis and synaptic transmission by activity-inducible protein Homer1a. <i>Journal of Neuroscience</i> , 2003 , 23, 6327-37	6.6	211
98	Induction of dendritic spines by an extracellular domain of AMPA receptor subunit GluR2. <i>Nature</i> , 2003 , 424, 677-81	50.4	263
97	Neurobiology: synapses unplugged. <i>Nature</i> , 2003 , 423, 931-2	50.4	6
96	Some assembly required: the development of neuronal synapses. <i>Nature Reviews Molecular Cell Biology</i> , 2003 , 4, 833-41	48.7	135
95	Supramodular structure and synergistic target binding of the N-terminal tandem PDZ domains of PSD-95. <i>Journal of Molecular Biology</i> , 2003 , 327, 203-14	6.5	120
94	Interaction of the deafness-dystonia protein DDP/TIMM8a with the signal transduction adaptor molecule STAM1. <i>Biochemical and Biophysical Research Communications</i> , 2003 , 305, 345-52	3.4	14
93	AMPA receptor trafficking and synaptic plasticity: major unanswered questions. <i>Neuroscience Research</i> , 2003 , 46, 127-34	2.9	65
92	15 years of neuron cell biology. <i>Neuron</i> , 2003 , 40, 193-7	13.9	3
91	Targeted protein degradation and synapse remodeling by an inducible protein kinase. <i>Science</i> , 2003 , 302, 1368-73	33.3	257
90	Crystal structure of GRIP1 PDZ6-peptide complex reveals the structural basis for class II PDZ target recognition and PDZ domain-mediated multimerization. <i>Journal of Biological Chemistry</i> , 2003 , 278, 8501-7	5.4	71
89	Association of the kinesin motor KIF1A with the multimodular protein liprin-alpha. <i>Journal of Biological Chemistry</i> , 2003 , 278, 11393-401	5.4	157
88	Gephyrin interacts with Dynein light chains 1 and 2, components of motor protein complexes. <i>Journal of Neuroscience</i> , 2002 , 22, 5393-402	6.6	162
87	Postsynaptic calcium signaling microdomains in neurons. <i>Frontiers in Bioscience - Landmark</i> , 2002 , 7, d872:85		19
86	PDZ domains: structural modules for protein complex assembly. <i>Journal of Biological Chemistry</i> , 2002 , 277, 5699-702	5.4	535
85	Postsynaptic signaling and plasticity mechanisms. <i>Science</i> , 2002 , 298, 776-80	33.3	582

84	Direct interaction of Frizzled-1, -2, -4, and -7 with PDZ domains of PSD-95. <i>FEBS Letters</i> , 2002 , 521, 185-93.8		47
83	Interaction between GRIP and liprin-alpha/SYD2 is required for AMPA receptor targeting. <i>Neuron</i> , 2002 , 34, 39-52	13.9	208
82	Clathrin adaptor AP2 and NSF interact with overlapping sites of GluR2 and play distinct roles in AMPA receptor trafficking and hippocampal LTD. <i>Neuron</i> , 2002 , 36, 661-74	13.9	356
81	Proteolysis of glutamate receptor-interacting protein by calpain in rat brain: implications for synaptic plasticity. <i>Journal of Neurochemistry</i> , 2001 , 77, 1553-60	6	51
80	Subunit-specific temporal and spatial patterns of AMPA receptor exocytosis in hippocampal neurons. <i>Nature Neuroscience</i> , 2001 , 4, 917-26	25.5	546
79	Dendritic spines: structure, dynamics and regulation. <i>Nature Reviews Neuroscience</i> , 2001 , 2, 880-8	13.5	691
78	Antibodies in haystacks: how selection strategy influences the outcome of selection from molecular diversity libraries. <i>Journal of Immunological Methods</i> , 2001 , 253, 233-42	2.5	61
77	The 8-kDa dynein light chain binds to its targets via a conserved (K/R)XTQT motif. <i>Journal of Biological Chemistry</i> , 2001 , 276, 14059-66	5.4	145
76	PDZ domains and the organization of supramolecular complexes. <i>Annual Review of Neuroscience</i> , 2001 , 24, 1-29	17	1047
75	Glutamatergic Synapses: Molecular Organization 2001 ,		1
74	Sharpin, a novel postsynaptic density protein that directly interacts with the shank family of proteins. <i>Molecular and Cellular Neurosciences</i> , 2001 , 17, 385-97	4.8	120
73	Tbr1 regulates differentiation of the preplate and layer 6. <i>Neuron</i> , 2001 , 29, 353-66	13.9	691
72	Regulation of dendritic spine morphology and synaptic function by Shank and Homer. <i>Neuron</i> , 2001 , 31, 115-30	13.9	574
71	Regulation of dendritic spine morphology by SPAR, a PSD-95-associated RapGAP. <i>Neuron</i> , 2001 , 31, 289-303	13.9	328
70	Biochemical and morphological characterization of an intracellular membrane compartment containing AMPA receptors. <i>Neuropharmacology</i> , 2001 , 41, 680-92	5.5	58
69	AMPA receptor trafficking and the control of synaptic transmission. <i>Cell</i> , 2001 , 105, 825-8	56.2	168
68	Bipartite interaction between neurofibromatosis type I protein (neurofibromin) and syndecan transmembrane heparan sulfate proteoglycans. <i>Journal of Neuroscience</i> , 2001 , 21, 3764-70	6.6	68
67	Differential cellular and subcellular localization of ampa receptor-binding protein and glutamate receptor-interacting protein. <i>Journal of Neuroscience</i> , 2001 , 21, 495-503	6.6	44

66	Distinct molecular mechanisms and divergent endocytotic pathways of AMPA receptor internalization. <i>Nature Neuroscience</i> , 2000 , 3, 1282-90	25.5	490
65	Nuclear translocation and transcription regulation by the membrane-associated guanylate kinase CASK/LIN-2. <i>Nature</i> , 2000 , 404, 298-302	50.4	286
64	Development of neuron-neuron synapses. <i>Current Opinion in Neurobiology</i> , 2000 , 10, 125-31	7.6	94
63	Neuronal inwardly rectifying K(+) channels differentially couple to PDZ proteins of the PSD-95/SAP90 family. <i>Journal of Neuroscience</i> , 2000 , 20, 156-62	6.6	108
62	Developmentally regulated NMDA receptor-dependent dephosphorylation of cAMP response element-binding protein (CREB) in hippocampal neurons. <i>Journal of Neuroscience</i> , 2000 , 20, 3529-36	6.6	168
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