

Morgan Sheng

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227
papers

50,105
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248
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55,337
ext. citations

13.9
avg, IF

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L-index

#	Paper	IF	Citations
227	The regulation and function of c-fos and other immediate early genes in the nervous system. <i>Neuron</i> , 1990 , 4, 477-85	13.9	2047
226	CREB: a Ca(2+)-regulated transcription factor phosphorylated by calmodulin-dependent kinases. <i>Science</i> , 1991 , 252, 1427-30	33.3	1349
225	PDZ domain proteins of synapses. <i>Nature Reviews Neuroscience</i> , 2004 , 5, 771-81	13.5	1207
224	Changing subunit composition of heteromeric NMDA receptors during development of rat cortex. <i>Nature</i> , 1994 , 368, 144-7	50.4	1109
223	The importance of dendritic mitochondria in the morphogenesis and plasticity of spines and synapses. <i>Cell</i> , 2004 , 119, 873-87	56.2	1086
222	PDZ domains and the organization of supramolecular complexes. <i>Annual Review of Neuroscience</i> , 2001 , 24, 1-29	17	1047
221	Crystal structures of a complexed and peptide-free membrane protein-binding domain: molecular basis of peptide recognition by PDZ. <i>Cell</i> , 1996 , 85, 1067-76	56.2	999
220	Membrane depolarization and calcium induce c-fos transcription via phosphorylation of transcription factor CREB. <i>Neuron</i> , 1990 , 4, 571-82	13.9	947
219	Role of NMDA receptor subtypes in governing the direction of hippocampal synaptic plasticity. <i>Science</i> , 2004 , 304, 1021-4	33.3	903
218	Clustering of Shaker-type K ⁺ channels by interaction with a family of membrane-associated guanylate kinases. <i>Nature</i> , 1995 , 378, 85-8	50.4	897
217	Coupling of mGluR/Homer and PSD-95 complexes by the Shank family of postsynaptic density proteins. <i>Neuron</i> , 1999 , 23, 583-92	13.9	884
216	Shank, a novel family of postsynaptic density proteins that binds to the NMDA receptor/PSD-95/GKAP complex and cortactin. <i>Neuron</i> , 1999 , 23, 569-82	13.9	783
215	The postsynaptic architecture of excitatory synapses: a more quantitative view. <i>Annual Review of Biochemistry</i> , 2007 , 76, 823-47	29.1	696
214	Dendritic spines: structure, dynamics and regulation. <i>Nature Reviews Neuroscience</i> , 2001 , 2, 880-8	13.5	691
213	Tbr1 regulates differentiation of the preplate and layer 6. <i>Neuron</i> , 2001 , 29, 353-66	13.9	691
212	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
211	Three-dimensional imaging of solvent-cleared organs using 3DISCO. <i>Nature Protocols</i> , 2012 , 7, 1983-95	18.8	613

210	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
209	Regulation of AMPA receptor-mediated synaptic transmission by clathrin-dependent receptor internalization. <i>Neuron</i> , 2000 , 25, 649-62	13.9	585
208	Postsynaptic signaling and plasticity mechanisms. <i>Science</i> , 2002 , 298, 776-80	33.3	582
207	Microglia in Alzheimer's disease. <i>Journal of Cell Biology</i> , 2018 , 217, 459-472	7.3	581
206	Regulation of dendritic spine morphology and synaptic function by Shank and Homer. <i>Neuron</i> , 2001 , 31, 115-30	13.9	574
205	Subunit-specific temporal and spatial patterns of AMPA receptor exocytosis in hippocampal neurons. <i>Nature Neuroscience</i> , 2001 , 4, 917-26	25.5	546
204	Competitive binding of alpha-actinin and calmodulin to the NMDA receptor. <i>Nature</i> , 1997 , 385, 439-42	50.4	535
203	PDZ domains: structural modules for protein complex assembly. <i>Journal of Biological Chemistry</i> , 2002 , 277, 5699-702	5.4	535
202	Molecular mechanisms of dendritic spine morphogenesis. <i>Current Opinion in Neurobiology</i> , 2006 , 16, 95-101	10.1	513
201	The mitochondrial deubiquitinase USP30 opposes parkin-mediated mitophagy. <i>Nature</i> , 2014 , 510, 370-5	50.4	506
200	Heteromultimerization and NMDA receptor-clustering activity of Chapsyn-110, a member of the PSD-95 family of proteins. <i>Neuron</i> , 1996 , 17, 103-13	13.9	503
199	Distinct molecular mechanisms and divergent endocytotic pathways of AMPA receptor internalization. <i>Nature Neuroscience</i> , 2000 , 3, 1282-90	25.5	490
198	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
197	Control of dendritic arborization by the phosphoinositide-3-kinase-Akt-mammalian target of rapamycin pathway. <i>Journal of Neuroscience</i> , 2005 , 25, 11300-12	6.6	460
196	Regulation of NMDA receptors by an associated phosphatase-kinase signaling complex. <i>Science</i> , 1999 , 285, 93-6	33.3	436
195	GKAP, a novel synaptic protein that interacts with the guanylate kinase-like domain of the PSD-95/SAP90 family of channel clustering molecules. <i>Journal of Cell Biology</i> , 1997 , 136, 669-78	7.3	435
194	Growth factors and membrane depolarization activate distinct programs of early response gene expression: dissociation of fos and jun induction. <i>Genes and Development</i> , 1989 , 3, 304-13	12.6	433
193	Subcellular segregation of two A-type K ⁺ channel proteins in rat central neurons. <i>Neuron</i> , 1992 , 9, 271-84	3.9	419

192	Targeted disruption of NMDA receptor 1 gene abolishes NMDA response and results in neonatal death. <i>Neuron</i> , 1994 , 13, 325-38	13.9	418
191	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
190	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
189	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
188	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
187	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
186	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
185	Heterogeneity in the molecular composition of excitatory postsynaptic sites during development of hippocampal neurons in culture. <i>Journal of Neuroscience</i> , 1998 , 18, 1217-29	6.6	354
184	Regulation of dendritic spine morphology by SPAR, a PSD-95-associated RapGAP. <i>Neuron</i> , 2001 , 31, 289-303	13.9	328
183	Presynaptic A-current based on heteromultimeric K ⁺ channels detected in vivo. <i>Nature</i> , 1993 , 365, 72-5	50.4	322
182	PDZs and receptor/channel clustering: rounding up the latest suspects. <i>Neuron</i> , 1996 , 17, 575-8	13.9	321
181	The postsynaptic organization of synapses. <i>Cold Spring Harbor Perspectives in Biology</i> , 2011 , 3,	10.2	317
180	Ligand-gated ion channel interactions with cytoskeletal and signaling proteins. <i>Annual Review of Physiology</i> , 2000 , 62, 755-78	23.1	314
179	Evidence for presynaptic N-methyl-D-aspartate autoreceptors in the spinal cord dorsal horn. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1994 , 91, 8383-7	11.5	299
178	Nuclear translocation and transcription regulation by the membrane-associated guanylate kinase CASK/LIN-2. <i>Nature</i> , 2000 , 404, 298-302	50.4	286
177	Direct interaction of CASK/LIN-2 and syndecan heparan sulfate proteoglycan and their overlapping distribution in neuronal synapses. <i>Journal of Cell Biology</i> , 1998 , 142, 139-51	7.3	285
176	Extracellular interactions between GluR2 and N-cadherin in spine regulation. <i>Neuron</i> , 2007 , 54, 461-77	13.9	283
175	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

174	Yotiao, a novel protein of neuromuscular junction and brain that interacts with specific splice variants of NMDA receptor subunit NR1. <i>Journal of Neuroscience</i> , 1998 , 18, 2017-27	6.6	265
173	Induction of dendritic spines by an extracellular domain of AMPA receptor subunit GluR2. <i>Nature</i> , 2003 , 424, 677-81	50.4	263
172	Targeted protein degradation and synapse remodeling by an inducible protein kinase. <i>Science</i> , 2003 , 302, 1368-73	33.3	257
171	Synapses and Alzheimer's disease. <i>Cold Spring Harbor Perspectives in Biology</i> , 2012 , 4,	10.2	256
170	CRIP1, a novel postsynaptic protein that binds to the third PDZ domain of PSD-95/SAP90. <i>Neuron</i> , 1998 , 20, 693-707	13.9	254
169	Tyrosine phosphorylation of GluR2 is required for insulin-stimulated AMPA receptor endocytosis and LTD. <i>EMBO Journal</i> , 2004 , 23, 1040-50	13	242
168	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
167	AMPA 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
166	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
165	Essential role for <i>dlg</i> in synaptic clustering of Shaker K ⁺ channels in vivo. <i>Journal of Neuroscience</i> , 1997 , 17, 152-9	6.6	233
164	Structure and different conformational states of native AMPA receptor complexes. <i>Nature</i> , 2005 , 433, 545-9	50.4	226
163	Retrograde modulation of presynaptic release probability through signaling mediated by PSD-95-neuroigin. <i>Nature Neuroscience</i> , 2007 , 10, 186-95	25.5	224
162	Subunit rules governing the sorting of internalized AMPA receptors in hippocampal neurons. <i>Neuron</i> , 2004 , 43, 221-36	13.9	224
161	Zinc 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
160	Activity-dependent redistribution and essential role of cortactin in dendritic spine morphogenesis. <i>Journal of Neuroscience</i> , 2003 , 23, 11759-69	6.6	220
159	Interaction of the postsynaptic density-95/guanlylate kinase domain-associated protein complex with a light chain of myosin-V and dynein. <i>Journal of Neuroscience</i> , 2000 , 20, 4524-34	6.6	219
158	Characterization of the Shank family of synaptic proteins. Multiple genes, alternative splicing, and differential expression in brain and development. <i>Journal of Biological Chemistry</i> , 1999 , 274, 29510-8	5.4	219
157	Autophosphorylated CaMKII α acts as a scaffold to recruit proteasomes to dendritic spines. <i>Cell</i> , 2010 , 140, 567-78	56.2	216

156	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
155	Role of Septin cytoskeleton in spine morphogenesis and dendrite development in neurons. <i>Current Biology</i> , 2007 , 17, 1752-8	6.3	212
154	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
153	Deconstruction for reconstruction: the role of proteolysis in neural plasticity and disease. <i>Neuron</i> , 2011 , 69, 22-32	13.9	210
152	Quaternary structure, protein dynamics, and synaptic function of SAP97 controlled by L27 domain interactions. <i>Neuron</i> , 2004 , 44, 453-67	13.9	209
151	Interaction between GRIP and liprin-alpha/SYD2 is required for AMPA receptor targeting. <i>Neuron</i> , 2002 , 34, 39-52	13.9	208
150	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
149	The growing role of mTOR in neuronal development and plasticity. <i>Molecular Neurobiology</i> , 2006 , 34, 205-19	6.2	203
148	TREM2, Microglia, and Neurodegenerative Diseases. <i>Trends in Molecular Medicine</i> , 2017 , 23, 512-533	11.5	199
147	LAR receptor protein tyrosine phosphatases in the development and maintenance of excitatory synapses. <i>Nature Neuroscience</i> , 2005 , 8, 458-67	25.5	198
146	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
145	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
144	Disulfide-linked head-to-head multimerization in the mechanism of ion channel clustering by PSD-95. <i>Neuron</i> , 1997 , 18, 803-14	13.9	186
143	Synaptic clustering of the cell adhesion molecule fasciclin II by discs-large and its role in the regulation of presynaptic structure. <i>Neuron</i> , 1997 , 19, 787-99	13.9	182
142	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
141	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
140	Regulated expression and subcellular localization of syndecan heparan sulfate proteoglycans and the syndecan-binding protein CASK/LIN-2 during rat brain development. <i>Journal of Neuroscience</i> , 1999 , 19, 7415-25	6.6	178
139	GRIP1 controls dendrite morphogenesis by regulating EphB receptor trafficking. <i>Nature Neuroscience</i> , 2005 , 8, 906-15	25.5	177

138	Differential expression of K ⁺ channel mRNAs in the rat brain and down-regulation in the hippocampus following seizures. <i>Neuron</i> , 1992 , 8, 1055-67	13.9	175
137	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
136	Rap2-JNK removes synaptic AMPA receptors during depotentiation. <i>Neuron</i> , 2005 , 46, 905-16	13.9	172
135	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
134	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
133	AMPA receptor trafficking and the control of synaptic transmission. <i>Cell</i> , 2001 , 105, 825-8	56.2	168
132	Caspase-3 in the central nervous system: beyond apoptosis. <i>Trends in Neurosciences</i> , 2012 , 35, 700-9	13.3	167
131	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
130	NMDA receptors in nervous system diseases. <i>Neuropharmacology</i> , 2013 , 74, 69-75	5.5	166
129	Sociability and motor functions in Shank1 mutant mice. <i>Brain Research</i> , 2011 , 1380, 120-37	3.7	166
128	Distinct roles of NR2A and NR2B cytoplasmic tails in long-term potentiation. <i>Journal of Neuroscience</i> , 2010 , 30, 2676-85	6.6	163
127	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
126	AMPA receptor-PDZ interactions in facilitation of spinal sensory synapses. <i>Nature Neuroscience</i> , 1999 , 2, 972-7	25.5	162
125	Mechanisms of mitophagy: PINK1, Parkin, USP30 and beyond. <i>Free Radical Biology and Medicine</i> , 2016 , 100, 210-222	7.8	159
124	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
123	Contrasting subcellular localization of the Kv1.2 K ⁺ channel subunit in different neurons of rat brain. <i>Journal of Neuroscience</i> , 1994 , 14, 2408-17	6.6	157
122	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
121	Differential regional expression and ultrastructural localization of alpha-actinin-2, a putative NMDA receptor-anchoring protein, in rat brain. <i>Journal of Neuroscience</i> , 1998 , 18, 1383-92	6.6	155

120	Association of AMPA receptors with a subset of glutamate receptor-interacting protein in vivo. <i>Journal of Neuroscience</i> , 1999 , 19, 6528-37	6.6	151
119	SynGO: An Evidence-Based, Expert-Curated Knowledge Base for the Synapse. <i>Neuron</i> , 2019 , 103, 217-234	13.9	147
118	PSD-95 and SAP97 exhibit distinct mechanisms for regulating K(+) channel surface expression and clustering. <i>Journal of Cell Biology</i> , 2000 , 148, 147-58	7.3	147
117	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
116	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
115	The inner core of the serum response element mediates both the rapid induction and subsequent repression of c-fos transcription following serum stimulation. <i>Genes and Development</i> , 1990 , 4, 255-68	12.6	140
114	A critical role for myosin IIb in dendritic spine morphology and synaptic function. <i>Neuron</i> , 2006 , 49, 175-82	13.9	139
113	Interaction between liprin-alpha and GIT1 is required for AMPA receptor targeting. <i>Journal of Neuroscience</i> , 2003 , 23, 1667-77	6.6	136
112	Ion channel targeting in neurons. <i>BioEssays</i> , 1997 , 19, 847-53	4.1	135
111	Some assembly required: the development of neuronal synapses. <i>Nature Reviews Molecular Cell Biology</i> , 2003 , 4, 833-41	48.7	135
110	Differential K+ channel clustering activity of PSD-95 and SAP97, two related membrane-associated putative guanylate kinases. <i>Neuropharmacology</i> , 1996 , 35, 993-1000	5.5	135
109	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
108	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
107	Plasma membrane Ca ²⁺ ATPase isoform 4b binds to membrane-associated guanylate kinase (MAGUK) proteins via their PDZ (PSD-95/Dlg/ZO-1) domains. <i>Journal of Biological Chemistry</i> , 1998 , 273, 1591-5	5.4	131
106	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
105	Bright fluorescent chemosensor platforms for imaging endogenous pools of neuronal zinc. <i>Chemistry and Biology</i> , 2004 , 11, 203-10		128
104	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
103	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

102	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
101	Transcriptional modification by a CASK-interacting nucleosome assembly protein. <i>Neuron</i> , 2004 , 42, 113-239		113
100	An intramolecular interaction between Src homology 3 domain and guanylate kinase-like domain required for channel clustering by postsynaptic density-95/SAP90. <i>Journal of Neuroscience</i> , 2000 , 20, 3580-7	6.6	113
99	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
98	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
97	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
96	Ion channel associated proteins. <i>Current Opinion in Neurobiology</i> , 1996 , 6, 602-8	7.6	106
95	Characterization of guanylate kinase-associated protein, a postsynaptic density protein at excitatory synapses that interacts directly with postsynaptic density-95/synapse-associated protein 90. <i>Journal of Neuroscience</i> , 1997 , 17, 5687-96	6.6	104
94	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
93	Targeting of nonexpressed genes in embryonic stem cells via homologous recombination. <i>Science</i> , 1989 , 245, 1234-6	33.3	96
92	Microtubule binding by CRIPT and its potential role in the synaptic clustering of PSD-95. <i>Nature Neuroscience</i> , 1999 , 2, 1063-9	25.5	95
91	GKAP orchestrates activity-dependent postsynaptic protein remodeling and homeostatic scaling. <i>Nature Neuroscience</i> , 2012 , 15, 1655-66	25.5	94
90	Development of neuron-neuron synapses. <i>Current Opinion in Neurobiology</i> , 2000 , 10, 125-31	7.6	94
89	Glutamate receptor anchoring proteins and the molecular organization of excitatory synapses. <i>Annals of the New York Academy of Sciences</i> , 1999 , 868, 483-93	6.5	94
88	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
87	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
86	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
85	Phosphorylation of threonine-19 of PSD-95 by GSK-3βs required for PSD-95 mobilization and long-term depression. <i>Journal of Neuroscience</i> , 2013 , 33, 12122-35	6.6	84

84	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
83	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
82	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
81	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
80	The dynamic turnover and functional roles of alpha-actinin in dendritic spines. <i>Neuropharmacology</i> , 2004 , 47, 734-45	5.5	78
79	Neuron specific Rab4 effector GRASP-1 coordinates membrane specialization and maturation of recycling endosomes. <i>PLoS Biology</i> , 2010 , 8, e1000283	9.7	75
78	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
77	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
76	Requirement of N-terminal cysteines of PSD-95 for PSD-95 multimerization and ternary complex formation, but not for binding to potassium channel Kv1.4. <i>Journal of Biological Chemistry</i> , 1999 , 274, 532-6	5.4	73
75	Polo-like kinases in the nervous system. <i>Oncogene</i> , 2005 , 24, 292-8	9.2	72
74	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
73	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, 8501-5	7.4	71
72	Progranulin deficiency causes impairment of autophagy and TDP-43 accumulation. <i>Journal of Experimental Medicine</i> , 2017 , 214, 2611-2628	16.6	70
71	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
70	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
69	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
68	AMPA receptor trafficking and synaptic plasticity: major unanswered questions. <i>Neuroscience Research</i> , 2003 , 46, 127-34	2.9	65
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