

Thomas C SÃ¼dhof

List of Publications by Year in descending order

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152
papers

32,238
citations

6592

79
h-index

7718

150
g-index

167
all docs

167
docs citations

167
times ranked

25804
citing authors

#	ARTICLE	IF	CITATIONS
1	Direct conversion of fibroblasts to functional neurons by defined factors. <i>Nature</i> , 2010, 463, 1035-1041.	13.7	2,739
2	The synaptic vesicle cycle: a cascade of protein-protein interactions. <i>Nature</i> , 1995, 375, 645-653.	13.7	1,951
3	Neuroligins and neuroligins link synaptic function to cognitive disease. <i>Nature</i> , 2008, 455, 903-911.	13.7	1,577
4	Rapid Single-Step Induction of Functional Neurons from Human Pluripotent Stem Cells. <i>Neuron</i> , 2013, 78, 785-798.	3.8	1,209
5	Induction of human neuronal cells by defined transcription factors. <i>Nature</i> , 2011, 476, 220-223.	13.7	1,152
6	Neurotransmitter Release: The Last Millisecond in the Life of a Synaptic Vesicle. <i>Neuron</i> , 2013, 80, 675-690.	3.8	952
7	A Neuroligin-3 Mutation Implicated in Autism Increases Inhibitory Synaptic Transmission in Mice. <i>Science</i> , 2007, 318, 71-76.	6.0	932
8	The Presynaptic Active Zone. <i>Neuron</i> , 2012, 75, 11-25.	3.8	863
9	Neuroligins Determine Synapse Maturation and Function. <i>Neuron</i> , 2006, 51, 741-754.	3.8	717
10	Neuroigin 1: A splice site-specific ligand for Î²-neurexins. <i>Cell</i> , 1995, 81, 435-443.	13.5	639
11	Î±-Neurexins couple Ca ²⁺ channels to synaptic vesicle exocytosis. <i>Nature</i> , 2003, 423, 939-948.	13.7	627
12	Synaptic Neurexin Complexes: A Molecular Code for the Logic of Neural Circuits. <i>Cell</i> , 2017, 171, 745-769.	13.5	608
13	A Neural Circuit for Memory Specificity and Generalization. <i>Science</i> , 2013, 339, 1290-1295.	6.0	585
14	Activity-Dependent Validation of Excitatory versus Inhibitory Synapses by Neuroligin-1 versus Neuroligin-2. <i>Neuron</i> , 2007, 54, 919-931.	3.8	511
15	RIM Proteins Tether Ca ²⁺ Channels to Presynaptic Active Zones via a Direct PDZ-Domain Interaction. <i>Cell</i> , 2011, 144, 282-295.	13.5	502
16	Cellubrevin is a ubiquitous tetanus-toxin substrate homologous to a putative synaptic vesicle fusion protein. <i>Nature</i> , 1993, 364, 346-349.	13.7	489
17	Towards an Understanding of Synapse Formation. <i>Neuron</i> , 2018, 100, 276-293.	3.8	445
18	Synaptotagmins: Why So Many?. <i>Journal of Biological Chemistry</i> , 2002, 277, 7629-7632.	1.6	425

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19	A Splice Code for trans-Synaptic Cell Adhesion Mediated by Binding of Neuroligin 1 to Î±- and Î²-Neurexins. <i>Neuron</i> , 2005, 48, 229-236.	3.8	416
20	Acid-dependent ligand dissociation and recycling of LDL receptor mediated by growth factor homology region. <i>Nature</i> , 1987, 326, 760-765.	13.7	407
21	Cartography of neurexins: More than 1000 isoforms generated by alternative splicing and expressed in distinct subsets of neurons. <i>Neuron</i> , 1995, 14, 497-507.	3.8	405
22	Mouse neurexin-1Î± deletion causes correlated electrophysiological and behavioral changes consistent with cognitive impairments. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 17998-18003.	3.3	404
23	Structures, Alternative Splicing, and Neurexin Binding of Multiple Neuroligins. <i>Journal of Biological Chemistry</i> , 1996, 271, 2676-2682.	1.6	398
24	Autism-Associated Neuroligin-3 Mutations Commonly Impair Striatal Circuits to Boost Repetitive Behaviors. <i>Cell</i> , 2014, 158, 198-212.	13.5	397
25	ApoE2, ApoE3, and ApoE4 Differentially Stimulate APP Transcription and AÎ² Secretion. <i>Cell</i> , 2017, 168, 427-441.e21.	13.5	372
26	A novel evolutionarily conserved domain of cell-adhesion GPCRs mediates autoproteolysis. <i>EMBO Journal</i> , 2012, 31, 1364-1378.	3.5	355
27	A dual-Ca ²⁺ -sensor model for neurotransmitter release in a central synapse. <i>Nature</i> , 2007, 450, 676-682.	13.7	321
28	RIM Determines Ca ²⁺ Channel Density and Vesicle Docking at the Presynaptic Active Zone. <i>Neuron</i> , 2011, 69, 304-316.	3.8	316
29	Generation of Induced Neuronal Cells by the Single Reprogramming Factor ASCL1. <i>Stem Cell Reports</i> , 2014, 3, 282-296.	2.3	312
30	Dynamin GTPase regulated by protein kinase C phosphorylation in nerve terminals. <i>Nature</i> , 1993, 365, 163-166.	13.7	284
31	Cartography of neurexin alternative splicing mapped by single-molecule long-read mRNA sequencing. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, E1291-9.	3.3	280
32	Generation of pure GABAergic neurons by transcription factor programming. <i>Nature Methods</i> , 2017, 14, 621-628.	9.0	265
33	Binding of synaptotagmin to the Î±-latrotoxin receptor implicates both in synaptic vesicle exocytosis. <i>Nature</i> , 1991, 353, 65-68.	13.7	261
34	Structure and Evolution of Neurexin Genes: Insight into the Mechanism of Alternative Splicing. <i>Genomics</i> , 2002, 79, 849-859.	1.3	255
35	Presenilins are essential for regulating neurotransmitter release. <i>Nature</i> , 2009, 460, 632-636.	13.7	251
36	Presynaptic Neurexin-3 Alternative Splicing trans-Synaptically Controls Postsynaptic AMPA Receptor Trafficking. <i>Cell</i> , 2013, 154, 75-88.	13.5	246

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37	Endocannabinoid-Mediated Long-Term Plasticity Requires cAMP/PKA Signaling and RIM1 $\hat{\pm}$. <i>Neuron</i> , 2007, 54, 801-812.	3.8	238
38	Binding Properties of Neuroligin 1 and Neurexin 1 $\hat{2}$ Reveal Function as Heterophilic Cell Adhesion Molecules. <i>Journal of Biological Chemistry</i> , 1997, 272, 26032-26039.	1.6	206
39	$\hat{\pm}$ -Latrotoxin and Its Receptors: Neurexins and CIRL/Latrophilins. <i>Annual Review of Neuroscience</i> , 2001, 24, 933-962.	5.0	204
40	Synaptic Cell Adhesion. <i>Cold Spring Harbor Perspectives in Biology</i> , 2012, 4, a005694-a005694.	2.3	198
41	Mechanism of Phospholipid Binding by the C2A-Domain of Synaptotagmin Iâ€. <i>Biochemistry</i> , 1998, 37, 12395-12403.	1.2	190
42	Human Neuropsychiatric Disease Modeling using Conditional Deletion Reveals Synaptic Transmission Defects Caused by Heterozygous Mutations in NRXN1. <i>Cell Stem Cell</i> , 2015, 17, 316-328.	5.2	187
43	Myt1l safeguards neuronal identity by actively repressing many non-neuronal fates. <i>Nature</i> , 2017, 544, 245-249.	13.7	180
44	Structures of Neuroligin-1 and the Neuroligin-1/Neurexin-1 $\hat{2}$ Complex Reveal Specific Protein-Protein and Protein-Ca $^{2+}$ Interactions. <i>Neuron</i> , 2007, 56, 992-1003.	3.8	178
45	Conditional Deletion of All Neurexins Defines Diversity of Essential Synaptic Organizer Functions for Neurexins. <i>Neuron</i> , 2017, 94, 611-625.e4.	3.8	170
46	Dissection of Synapse Induction by Neuroligins. <i>Journal of Biological Chemistry</i> , 2005, 280, 22365-22374.	1.6	169
47	Latrophilins Function as Heterophilic Cell-adhesion Molecules by Binding to Teneurins. <i>Journal of Biological Chemistry</i> , 2014, 289, 387-402.	1.6	169
48	Latrophilin GPCRs direct synapse specificity by coincident binding of FLRTs and teneurins. <i>Science</i> , 2019, 363, .	6.0	169
49	Definition of a Molecular Pathway Mediating $\hat{\pm}$ -Synuclein Neurotoxicity. <i>Journal of Neuroscience</i> , 2015, 35, 5221-5232.	1.7	168
50	Distinct Neuronal Coding Schemes in Memory Revealed by Selective Erasure of Fast Synchronous Synaptic Transmission. <i>Neuron</i> , 2012, 73, 990-1001.	3.8	165
51	Single-cell RNAseq reveals cell adhesion molecule profiles in electrophysiologically defined neurons. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E5222-31.	3.3	162
52	$\hat{\pm}$ -Latrotoxin Receptor CIRL/Latrophilin 1 (CL1) Defines an Unusual Family of Ubiquitous G-protein-linked Receptors. <i>Journal of Biological Chemistry</i> , 1998, 273, 32715-32724.	1.6	159
53	Neurexins Physically and Functionally Interact with GABA $_{A}$ Receptors. <i>Neuron</i> , 2010, 66, 403-416.	3.8	154
54	CASK and Protein 4.1 Support F-actin Nucleation on Neurexins. <i>Journal of Biological Chemistry</i> , 2001, 276, 47869-47876.	1.6	150

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55	The Making of Neurexins. <i>Journal of Neurochemistry</i> , 1998, 71, 1339-1347.	2.1	149
56	The cell-adhesion G protein-coupled receptor BAI3 is a high-affinity receptor for C1q-like proteins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 2534-2539.	3.3	148
57	High Affinity Neurexin Binding to Cell Adhesion G-protein-coupled Receptor CIRL1/Latrophilin-1 Produces an Intercellular Adhesion Complex. <i>Journal of Biological Chemistry</i> , 2012, 287, 9399-9413.	1.6	147
58	Single-Cell mRNA Profiling Reveals Cell-Type-Specific Expression of Neurexin Isoforms. <i>Neuron</i> , 2015, 87, 326-340.	3.8	144
59	Vam3p structure reveals conserved and divergent properties of syntaxins. <i>Nature Structural Biology</i> , 2001, 8, 258-264.	9.7	140
60	Extracellular Domains of \hat{A} -Neurexins Participate in Regulating Synaptic Transmission by Selectively Affecting N- and P/Q-Type Ca^{2+} Channels. <i>Journal of Neuroscience</i> , 2005, 25, 4330-4342.	1.7	136
61	The cell biology of synapse formation. <i>Journal of Cell Biology</i> , 2021, 220, .	2.3	136
62	How to Make an Active Zone: Unexpected Universal Functional Redundancy between RIMs and RIM-BPs. <i>Neuron</i> , 2016, 91, 792-807.	3.8	133
63	Neurexins Sculpt Cerebellar Purkinje-Cell Circuits by Differential Control of Distinct Classes of Synapses. <i>Neuron</i> , 2015, 87, 781-796.	3.8	128
64	The C2B Domain of Synaptotagmin I Is a Ca^{2+} -Binding Module. <i>Biochemistry</i> , 2001, 40, 5854-5860.	1.2	125
65	\hat{I}^2 -Neurexins Control Neural Circuits by Regulating Synaptic Endocannabinoid Signaling. <i>Cell</i> , 2015, 162, 593-606.	13.5	123
66	Monitoring synaptic transmission in primary neuronal cultures using local extracellular stimulation. <i>Journal of Neuroscience Methods</i> , 2007, 161, 75-87.	1.3	121
67	Neurexins perform neurexin-dependent and neurexin-independent functions in synapse validation. <i>EMBO Journal</i> , 2009, 28, 3244-3255.	3.5	120
68	Structural Basis for Teneurin Function in Circuit-Wiring: A Toxin Motif at the Synapse. <i>Cell</i> , 2018, 173, 735-748.e15.	13.5	119
69	Gene Selection, Alternative Splicing, and Post-translational Processing Regulate Neurexin Selectivity for \hat{I}^2 -Neurexins. <i>Biochemistry</i> , 2006, 45, 12816-12827.	1.2	117
70	Distinct circuit-dependent functions of presynaptic neurexin-3 at GABAergic and glutamatergic synapses. <i>Nature Neuroscience</i> , 2015, 18, 997-1007.	7.1	109
71	Different Effects on Fast Exocytosis Induced by Synaptotagmin 1 and 2 Isoforms and Abundance But Not by Phosphorylation. <i>Journal of Neuroscience</i> , 2006, 26, 632-643.	1.7	108
72	Neurexophilin Binding to \hat{I}^2 -Neurexins. <i>Journal of Biological Chemistry</i> , 1998, 273, 34716-34723.	1.6	103

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73	Presynaptic Neuronal Pentraxin Receptor Organizes Excitatory and Inhibitory Synapses. <i>Journal of Neuroscience</i> , 2017, 37, 1062-1080.	1.7	102
74	Structural Basis of Latrophilin-FLRT-UNC5 Interaction in Cell Adhesion. <i>Structure</i> , 2015, 23, 1678-1691.	1.6	101
75	Alternative Splicing of Presynaptic Neurexins Differentially Controls Postsynaptic NMDA and AMPA Receptor Responses. <i>Neuron</i> , 2019, 102, 993-1008.e5.	3.8	99
76	RIM-BPs Mediate Tight Coupling of Action Potentials to Ca ²⁺ -Triggered Neurotransmitter Release. <i>Neuron</i> , 2015, 87, 1234-1247.	3.8	97
77	ELKS2 [±] /CAST Deletion Selectively Increases Neurotransmitter Release at Inhibitory Synapses. <i>Neuron</i> , 2009, 64, 227-239.	3.8	96
78	Structure and Evolution of Neurexophilin. <i>Journal of Neuroscience</i> , 1996, 16, 4360-4369.	1.7	90
79	Neurexins Are Functional $\hat{\pm}$ -Latrotoxin Receptors. <i>Neuron</i> , 1999, 22, 489-496.	3.8	89
80	Deletion of $\hat{\pm}$ -neurexins does not cause a major impairment of axonal pathfinding or synapse formation. <i>Journal of Comparative Neurology</i> , 2007, 502, 261-274.	0.9	89
81	Unique versus Redundant Functions of Neuroligin Genes in Shaping Excitatory and Inhibitory Synapse Properties. <i>Journal of Neuroscience</i> , 2017, 37, 6816-6836.	1.7	89
82	Postsynaptic adhesion GPCR latrophilin-2 mediates target recognition in entorhinal-hippocampal synapse assembly. <i>Journal of Cell Biology</i> , 2017, 216, 3831-3846.	2.3	86
83	Neurexophilins Form a Conserved Family of Neuropeptide-Like Glycoproteins. <i>Journal of Neuroscience</i> , 1998, 18, 3630-3638.	1.7	85
84	Differential Signaling Mediated by ApoE2, ApoE3, and ApoE4 in Human Neurons Parallels Alzheimer's Disease Risk. <i>Journal of Neuroscience</i> , 2019, 39, 7408-7427.	1.7	85
85	RIM1 [±] and RIM1 ² Are Synthesized from Distinct Promoters of the <i>RIM1</i> Gene to Mediate Differential But Overlapping Synaptic Functions. <i>Journal of Neuroscience</i> , 2008, 28, 13435-13447.	1.7	84
86	Unusually rapid evolution of Neuroligin-4 in mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 6421-6426.	3.3	84
87	Specific factors in blood from young but not old mice directly promote synapse formation and NMDA-receptor recruitment. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 12524-12533.	3.3	82
88	Analysis of conditional heterozygous STXBP1 mutations in human neurons. <i>Journal of Clinical Investigation</i> , 2015, 125, 3560-3571.	3.9	82
89	Carbonic anhydrase-related protein CA10 is an evolutionarily conserved pan-neurexin ligand. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E1253-E1262.	3.3	81
90	Membrane-Tethered Monomeric Neurexin LNS-Domain Triggers Synapse Formation. <i>Journal of Neuroscience</i> , 2013, 33, 14617-14628.	1.7	80

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91	A central amygdala to zona incerta projection is required for acquisition and remote recall of conditioned fear memory. <i>Nature Neuroscience</i> , 2018, 21, 1515-1519.	7.1	80
92	The fragile X mutation impairs homeostatic plasticity in human neurons by blocking synaptic retinoic acid signaling. <i>Science Translational Medicine</i> , 2018, 10, .	5.8	79
93	Synaptic neurexin-1 assembles into dynamically regulated active zone nanoclusters. <i>Journal of Cell Biology</i> , 2019, 218, 2677-2698.	2.3	78
94	Neurexin-4 Regulates Excitatory Synaptic Transmission in Human Neurons. <i>Neuron</i> , 2019, 103, 617-626.e6.	3.8	75
95	Retinoic Acid and LTP Recruit Postsynaptic AMPA Receptors Using Distinct SNARE-Dependent Mechanisms. <i>Neuron</i> , 2015, 86, 442-456.	3.8	72
96	The G Protein-coupled Receptor CL1 Interacts Directly with Proteins of the Shank Family. <i>Journal of Biological Chemistry</i> , 2000, 275, 36204-36210.	1.6	71
97	Calsyntenins Function as Synaptogenic Adhesion Molecules in Concert with Neurexins. <i>Cell Reports</i> , 2014, 6, 1096-1109.	2.9	71
98	Structure of the Janus-faced C2B domain of rabphilin. <i>Nature Cell Biology</i> , 1999, 1, 106-112.	4.6	67
99	Neurexin-1 Signaling Controls LTP and NMDA Receptors by Distinct Molecular Pathways. <i>Neuron</i> , 2019, 102, 621-635.e3.	3.8	67
100	Å-Latrotoxin Stimulates a Novel Pathway of Ca ²⁺ -Dependent Synaptic Exocytosis Independent of the Classical Synaptic Fusion Machinery. <i>Journal of Neuroscience</i> , 2009, 29, 8639-8648.	1.7	63
101	Neurons generated by direct conversion of fibroblasts reproduce synaptic phenotype caused by autism-associated neurexin-3 mutation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 16622-16627.	3.3	61
102	Persistent transcriptional programmes are associated with remote memory. <i>Nature</i> , 2020, 587, 437-442.	13.7	61
103	Neuromodulator Signaling Bidirectionally Controls Vesicle Numbers in Human Synapses. <i>Cell</i> , 2019, 179, 498-513.e22.	13.5	59
104	Genetic Ablation of All Cerebellins Reveals Synapse Organizer Functions in Multiple Regions Throughout the Brain. <i>Journal of Neuroscience</i> , 2018, 38, 4774-4790.	1.7	58
105	Neurexins cluster Ca ²⁺ channels within the presynaptic active zone. <i>EMBO Journal</i> , 2020, 39, e103208.	3.5	58
106	GluD1 is a signal transduction device disguised as an ionotropic receptor. <i>Nature</i> , 2021, 595, 261-265.	13.7	51
107	Cross-platform validation of neurotransmitter release impairments in schizophrenia patient-derived NRXN1-mutant neurons. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	49
108	Cerebellins are differentially expressed in selective subsets of neurons throughout the brain. <i>Journal of Comparative Neurology</i> , 2017, 525, 3286-3311.	0.9	48

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109	IGF1-Dependent Synaptic Plasticity of Mitral Cells in Olfactory Memory during Social Learning. <i>Neuron</i> , 2017, 95, 106-122.e5.	3.8	48
110	Crystal Structure of the Second LNS/LG Domain from Neurexin 1 β . <i>Journal of Biological Chemistry</i> , 2006, 281, 22896-22905.	1.6	46
111	Synaptotagmin-11 mediates a vesicle trafficking pathway that is essential for development and synaptic plasticity. <i>Genes and Development</i> , 2019, 33, 365-376.	2.7	46
112	RTN4/NoGo-receptor binding to BAI adhesion-GPCRs regulates neuronal development. <i>Cell</i> , 2021, 184, 5869-5885.e25.	13.5	45
113	Treatment of a genetic brain disease by CNS-wide microglia replacement. <i>Science Translational Medicine</i> , 2022, 14, eabl9945.	5.8	45
114	Latrophilin GPCR signaling mediates synapse formation. <i>ELife</i> , 2021, 10, .	2.8	44
115	Direct Reprogramming of Human Neurons Identifies MARCKSL1 as a Pathogenic Mediator of Valproic Acid-Induced Teratogenicity. <i>Cell Stem Cell</i> , 2019, 25, 103-119.e6.	5.2	43
116	Structural Characterization of Recombinant Soluble Rat Neuroligin 1: Mapping of Secondary Structure and Glycosylation by Mass Spectrometry. <i>Biochemistry</i> , 2004, 43, 1496-1506.	1.2	41
117	Synaptic retinoic acid receptor signaling mediates mTOR-dependent metaplasticity that controls hippocampal learning. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 7113-7122.	3.3	40
118	A Synaptic Circuit Required for Acquisition but Not Recall of Social Transmission of Food Preference. <i>Neuron</i> , 2020, 107, 144-157.e4.	3.8	40
119	LAR receptor phospho-tyrosine phosphatases regulate NMDA-receptor responses. <i>ELife</i> , 2020, 9, .	2.8	40
120	A toolbox of nanobodies developed and validated for use as intrabodies and nanoscale immunolabels in mammalian brain neurons. <i>ELife</i> , 2019, 8, .	2.8	39
121	Retinoic Acid Receptor RAR β -Dependent Synaptic Signaling Mediates Homeostatic Synaptic Plasticity at the Inhibitory Synapses of Mouse Visual Cortex. <i>Journal of Neuroscience</i> , 2018, 38, 10454-10466.	1.7	36
122	Alternative splicing controls teneurin-latrophilin interaction and synapse specificity by a shape-shifting mechanism. <i>Nature Communications</i> , 2020, 11, 2140.	5.8	36
123	Neuroligins Are Selectively Essential for NMDAR Signaling in Cerebellar Stellate Interneurons. <i>Journal of Neuroscience</i> , 2016, 36, 9070-9083.	1.7	34
124	SPARCL1 Promotes Excitatory But Not Inhibitory Synapse Formation and Function Independent of Neurexins and Neuroligins. <i>Journal of Neuroscience</i> , 2020, 40, 8088-8102.	1.7	33
125	Multiple signaling pathways are essential for synapse formation induced by synaptic adhesion molecules. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	29
126	Autism-associated neuroligin-4 mutation selectively impairs glycinergic synaptic transmission in mouse brainstem synapses. <i>Journal of Experimental Medicine</i> , 2018, 215, 1543-1553.	4.2	27

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127	Deorphanizing FAM19A proteins as pan-neurexin ligands with an unusual biosynthetic binding mechanism. <i>Journal of Cell Biology</i> , 2020, 219, .	2.3	26
128	Cbln2 and Cbln4 are expressed in distinct medial habenula-interpeduncular projections and contribute to different behavioral outputs. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E10235-E10244.	3.3	25
129	Neurexins regulate presynaptic GABAB-receptors at central synapses. <i>Nature Communications</i> , 2021, 12, 2380.	5.8	24
130	A simple Ca ²⁺ -imaging approach to neural network analyses in cultured neurons. <i>Journal of Neuroscience Methods</i> , 2021, 349, 109041.	1.3	21
131	Latrophilin-2 and latrophilin-3 are redundantly essential for parallel-fiber synapse function in cerebellum. <i>ELife</i> , 2020, 9, .	2.8	21
132	Structures of neurexophilin- ϵ -neurexin complexes reveal a regulatory mechanism of alternative splicing. <i>EMBO Journal</i> , 2019, 38, e101603.	3.5	19
133	Cerebellin-2 regulates a serotonergic dorsal raphe circuit that controls compulsive behaviors. <i>Molecular Psychiatry</i> , 2021, 26, 7509-7521.	4.1	18
134	Teneurins assemble into presynaptic nanoclusters that promote synapse formation via postsynaptic non-teneurin ligands. <i>Nature Communications</i> , 2022, 13, 2297.	5.8	17
135	Neuroigin-3 confines AMPA receptors into nanoclusters, thereby controlling synaptic strength at the calyx of Held synapses. <i>Science Advances</i> , 2022, 8, .	4.7	17
136	InsP3 receptor turnaround. <i>Nature</i> , 1990, 344, 495-495.	13.7	16
137	Dysfunction of parvalbumin neurons in the cerebellar nuclei produces an action tremor. <i>Journal of Clinical Investigation</i> , 2020, 130, 5142-5156.	3.9	16
138	RIM-binding proteins recruit BK channels to presynaptic release sites adjacent to voltage-gated Ca ²⁺ channels. <i>EMBO Journal</i> , 2018, 37, .	3.5	15
139	Cannabinoid receptor activation acutely increases synaptic vesicle numbers by activating synapsins in human synapses. <i>Molecular Psychiatry</i> , 2021, 26, 6253-6268.	4.1	15
140	Assignment of the 1H, 15N and 13C resonances of the calcium-free and calcium-bound forms of the first C2-domain of synaptotagmin I. <i>Journal of Biomolecular NMR</i> , 1997, 10, 307-308.	1.6	12
141	The conditional KO approach: Cre/Lox technology in human neurons. <i>Rare Diseases (Austin, Tex)</i> , 2016, 4, e1131884.	1.8	10
142	The Perils of Navigating Activity-Dependent Alternative Splicing of Neurexins. <i>Frontiers in Molecular Neuroscience</i> , 2021, 14, 659681.	1.4	10
143	Myt1l haploinsufficiency leads to obesity and multifaceted behavioral alterations in mice. <i>Molecular Autism</i> , 2022, 13, 19.	2.6	10
144	Molecular self-avoidance in synaptic neurexin complexes. <i>Science Advances</i> , 2021, 7, eabk1924.	4.7	9

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145	CAPS in Search of a Lost Function. <i>Neuron</i> , 2005, 46, 2-4.	3.8	8
146	Identification, expression, and crystallization of the protease-resistant conserved domain of synapsin I. <i>Protein Science</i> , 1997, 6, 2264-2267.	3.1	7
147	Transsynaptic cerebellin 4-neogenin 1 signaling mediates LTP in the mouse dentate gyrus. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, e2123421119.	3.3	6
148	Induction of synapse formation by de novo neurotransmitter synthesis. <i>Nature Communications</i> , 2022, 13, .	5.8	6
149	Engineered synaptic tools reveal localized cAMP signaling in synapse assembly. <i>Journal of Cell Biology</i> , 2022, 221, .	2.3	5
150	Deletion of Calsyntenin-3, an atypical cadherin, suppresses inhibitory synapses but increases excitatory parallel-fiber synapses in cerebellum. <i>ELife</i> , 2022, 11, .	2.8	4
151	Identification of Endogenous/transfected Synaptic Proteins in Primary Neuronal Culture by a High-yield Immunogold Labeling. <i>Microscopy and Microanalysis</i> , 2003, 9, 1498-1499.	0.2	0
152	Proteolytic regulation of calcium channels - avoiding controversy.. <i>Faculty Reviews</i> , 2022, 11, 5.	1.7	0