

Alexander Dityatev

List of Publications by Year in descending order

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161
papers

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citations

23500

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175
all docs

175
docs citations

175
times ranked

11248
citing authors

#	ARTICLE	IF	CITATIONS
1	Direct generation of functional dopaminergic neurons from mouse and human fibroblasts. <i>Nature</i> , 2011, 476, 224-227.	13.7	941
2	Extracellular matrix molecules and synaptic plasticity. <i>Nature Reviews Neuroscience</i> , 2003, 4, 456-468.	4.9	459
3	The dual role of the extracellular matrix in synaptic plasticity and homeostasis. <i>Nature Reviews Neuroscience</i> , 2010, 11, 735-746.	4.9	447
4	Activity-dependent formation and functions of chondroitin sulfate-rich extracellular matrix of perineuronal nets. <i>Developmental Neurobiology</i> , 2007, 67, 570-588.	1.5	307
5	Mice Deficient in the Polysialyltransferase ST8SiaIV/PST-1 Allow Discrimination of the Roles of Neural Cell Adhesion Molecule Protein and Polysialic Acid in Neural Development and Synaptic Plasticity. <i>Journal of Neuroscience</i> , 2000, 20, 5234-5244.	1.7	294
6	Cosignaling of NCAM via lipid rafts and the FGF receptor is required for neuritogenesis. <i>Journal of Cell Biology</i> , 2002, 157, 521-532.	2.3	259
7	Polysialylated Neural Cell Adhesion Molecule Promotes Remodeling and Formation of Hippocampal Synapses. <i>Journal of Neuroscience</i> , 2004, 24, 9372-9382.	1.7	244
8	Modification of extracellular matrix by enzymatic removal of chondroitin sulfate and by lack of tenascin-R differentially affects several forms of synaptic plasticity in the hippocampus. <i>Neuroscience</i> , 2001, 104, 359-369.	1.1	212
9	Molecular signals of plasticity at the tetrapartite synapse. <i>Current Opinion in Neurobiology</i> , 2011, 21, 353-359.	2.0	204
10	Targeting the neural extracellular matrix in neurological disorders. <i>Neuroscience</i> , 2013, 253, 194-213.	1.1	198
11	Crosstalk between glia, extracellular matrix and neurons. <i>Brain Research Bulletin</i> , 2018, 136, 101-108.	1.4	195
12	Compartmentalization from the outside: the extracellular matrix and functional microdomains in the brain. <i>Trends in Neurosciences</i> , 2010, 33, 503-512.	4.2	191
13	The Extracellular Matrix Molecule Hyaluronic Acid Regulates Hippocampal Synaptic Plasticity by Modulating Postsynaptic L-Type Ca ²⁺ Channels. <i>Neuron</i> , 2010, 67, 116-128.	3.8	184
14	Importance of Shank3 Protein in Regulating Metabotropic Glutamate Receptor 5 (mGluR5) Expression and Signaling at Synapses. <i>Journal of Biological Chemistry</i> , 2011, 286, 34839-34850.	1.6	180
15	Reduced Perisomatic Inhibition, Increased Excitatory Transmission, and Impaired Long-Term Potentiation in Mice Deficient for the Extracellular Matrix Glycoprotein Tenascin-R. <i>Molecular and Cellular Neurosciences</i> , 2001, 17, 226-240.	1.0	173
16	5-HT ₇ Receptor Is Coupled to G _α Subunits of Heterotrimeric G ₁₂ -Protein to Regulate Gene Transcription and Neuronal Morphology. <i>Journal of Neuroscience</i> , 2005, 25, 7821-7830.	1.7	173
17	Conditional Ablation of the Neural Cell Adhesion Molecule Reduces Precision of Spatial Learning, Long-Term Potentiation, and Depression in the CA1 Subfield of Mouse Hippocampus. <i>Journal of Neuroscience</i> , 2004, 24, 1565-1577.	1.7	172
18	Sialyltransferase ST8Sia-II Assembles a Subset of Polysialic Acid That Directs Hippocampal Axonal Targeting and Promotes Fear Behavior. <i>Journal of Biological Chemistry</i> , 2004, 279, 32603-32613.	1.6	166

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19	Cell Adhesion Molecules in Synapse Formation. <i>Journal of Neuroscience</i> , 2004, 24, 9244-9249.	1.7	164
20	Heterodimerization of serotonin receptors 5-HT1A and 5-HT7 differentially regulates receptor signalling and trafficking. <i>Journal of Cell Science</i> , 2012, 125, 2486-99.	1.2	163
21	Synaptic Strength as a Function of Post- versus Presynaptic Expression of the Neural Cell Adhesion Molecule NCAM. <i>Neuron</i> , 2000, 26, 207-217.	3.8	161
22	Impairment of L-type Ca ²⁺ Channel-Dependent Forms of Hippocampal Synaptic Plasticity in Mice Deficient in the Extracellular Matrix Glycoprotein Tenascin-C. <i>Journal of Neuroscience</i> , 2002, 22, 7177-7194.	1.7	154
23	Neural cell adhesion molecule promotes accumulation of TGN organelles at sites of neuron-to-neuron contacts. <i>Journal of Cell Biology</i> , 2002, 159, 649-661.	2.3	151
24	Polysialylated Neural Cell Adhesion Molecule Is Involved in Induction of Long-Term Potentiation and Memory Acquisition and Consolidation in a Fear-Conditioning Paradigm. <i>Journal of Neuroscience</i> , 2006, 26, 10888-109898.	1.7	136
25	Shaping Synapses by the Neural Extracellular Matrix. <i>Frontiers in Neuroanatomy</i> , 2018, 12, 40.	0.9	130
26	Amyloid precursor protein and amyloid β -peptide bind to ATP synthase and regulate its activity at the surface of neural cells. <i>Molecular Psychiatry</i> , 2008, 13, 953-969.	4.1	120
27	Extracellular matrix molecules, their receptors, and secreted proteases in synaptic plasticity. <i>Developmental Neurobiology</i> , 2011, 71, 1040-1053.	1.5	115
28	The extracellular matrix molecule tenascin-R and its HNK-1 carbohydrate modulate perisomatic inhibition and long-term potentiation in the CA1 region of the hippocampus. <i>European Journal of Neuroscience</i> , 2000, 12, 3331-3342.	1.2	107
29	Remote control of induced dopaminergic neurons in parkinsonian rats. <i>Journal of Clinical Investigation</i> , 2014, 124, 3215-3229.	3.9	104
30	Neural Cell Adhesion Molecule-Associated Polysialic Acid Regulates Synaptic Plasticity and Learning by Restraining the Signaling through GluN2B-Containing NMDA Receptors. <i>Journal of Neuroscience</i> , 2010, 30, 4171-4183.	1.7	103
31	Attenuated palmitoylation of serotonin receptor 5-HT1A affects receptor function and contributes to depression-like behaviors. <i>Nature Communications</i> , 2019, 10, 3924.	5.8	100
32	Neural Cell Adhesion Molecule-associated Polysialic Acid Inhibits NR2B-containing N-Methyl-d-aspartate Receptors and Prevents Glutamate-induced Cell Death. <i>Journal of Biological Chemistry</i> , 2006, 281, 34859-34869.	1.6	99
33	The extracellular matrix and synapses. <i>Cell and Tissue Research</i> , 2006, 326, 647-654.	1.5	96
34	Extracellular matrix in plasticity and epileptogenesis. <i>Neuron Glia Biology</i> , 2008, 4, 235-247.	2.0	95
35	Decreased Anxiety, Altered Place Learning, and Increased CA1 Basal Excitatory Synaptic Transmission in Mice with Conditional Ablation of the Neural Cell Adhesion Molecule L1. <i>Journal of Neuroscience</i> , 2003, 23, 10419-10432.	1.7	94
36	Synaptic Remodeling Depends on Signaling between Serotonin Receptors and the Extracellular Matrix. <i>Cell Reports</i> , 2017, 19, 1767-1782.	2.9	92

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37	Seizure-like activity in hyaluronidase-treated dissociated hippocampal cultures. <i>Frontiers in Cellular Neuroscience</i> , 2013, 7, 149.	1.8	87
38	Neural Cell Adhesion Molecule-associated Polysialic Acid Potentiates $\hat{I}\pm$ -Amino-3-hydroxy-5-methylisoxazole-4-propionic Acid Receptor Currents. <i>Journal of Biological Chemistry</i> , 2004, 279, 47975-47984.	1.6	86
39	Improved Reversal Learning and Working Memory and Enhanced Reactivity to Novelty in Mice with Enhanced GABAergic Innervation in the Dentate Gyrus. <i>Cerebral Cortex</i> , 2010, 20, 2712-2727.	1.6	86
40	In vivosynaptic plasticity in the dentate gyrus of mice deficient in the neural cell adhesion molecule NCAM or its polysialic acid. <i>European Journal of Neuroscience</i> , 2006, 23, 2255-2264.	1.2	85
41	The Neural Cell Adhesion Molecule Regulates Cell-Surface Delivery of G-Protein-Activated Inwardly Rectifying Potassium Channels Via Lipid Rafts. <i>Journal of Neuroscience</i> , 2002, 22, 7154-7164.	1.7	84
42	Rapid Generation of Functional Dopaminergic Neurons From Human Induced Pluripotent Stem Cells Through a Single-Step Procedure Using Cell Lineage Transcription Factors. <i>Stem Cells Translational Medicine</i> , 2013, 2, 473-479.	1.6	81
43	Tenascin-R promotes assembly of the extracellular matrix of perineuronal nets via clustering of aggrecan. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2014, 369, 20140046.	1.8	80
44	The Insulin Receptor Substrate of 53 kDa (IRSp53) Limits Hippocampal Synaptic Plasticity. <i>Journal of Biological Chemistry</i> , 2009, 284, 9225-9236.	1.6	78
45	A synthetic synaptic organizer protein restores glutamatergic neuronal circuits. <i>Science</i> , 2020, 369, .	6.0	78
46	Polysialic Acid in Brain Development and Synaptic Plasticity. <i>Topics in Current Chemistry</i> , 2013, 366, 55-96.	4.0	77
47	Modulation of synaptic transmission and plasticity by cell adhesion and repulsion molecules. <i>Neuron Glia Biology</i> , 2008, 4, 197-209.	2.0	76
48	Neural ECM molecules in synaptic plasticity, learning, and memory. <i>Progress in Brain Research</i> , 2014, 214, 53-80.	0.9	75
49	HDAC1 links early life stress to schizophrenia-like phenotypes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E4686-E4694.	3.3	75
50	Trans-Golgi network delivery of synaptic proteins in synaptogenesis. <i>Journal of Cell Science</i> , 2004, 117, 381-388.	1.2	72
51	Hippocampal Metaplasticity Induced by Deficiency in the Extracellular Matrix Glycoprotein Tenascin-R. <i>Journal of Neuroscience</i> , 2007, 27, 6019-6028.	1.7	68
52	Remodeling of extracellular matrix and epileptogenesis. <i>Epilepsia</i> , 2010, 51, 61-65.	2.6	68
53	Amygdala, Long-term Potentiation, and Fear Conditioning. <i>Neuroscientist</i> , 2005, 11, 75-88.	2.6	67
54	Increased Excitability and Reduced Excitatory Synaptic Input Into Fast-Spiking CA2 Interneurons After Enzymatic Attenuation of Extracellular Matrix. <i>Frontiers in Cellular Neuroscience</i> , 2018, 12, 149.	1.8	66

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55	Natural variability in the number of dendritic segments: Model-based inferences about branching during neurite outgrowth. <i>Journal of Comparative Neurology</i> , 1997, 387, 325-340.	0.9	63
56	Fibroblast Growth Factor-Regulated Palmitoylation of the Neural Cell Adhesion Molecule Determines Neuronal Morphogenesis. <i>Journal of Neuroscience</i> , 2008, 28, 8897-8907.	1.7	63
57	Reduced GABAergic transmission and number of hippocampal perisomatic inhibitory synapses in juvenile mice deficient in the neural cell adhesion molecule L1. <i>Molecular and Cellular Neurosciences</i> , 2004, 26, 191-203.	1.0	61
58	Bi-directional astrocytic regulation of neuronal activity within a network. <i>Frontiers in Computational Neuroscience</i> , 2012, 6, 92.	1.2	61
59	Enhanced perisomatic inhibition and impaired long-term potentiation in the CA1 region of juvenile CHL1-deficient mice. <i>European Journal of Neuroscience</i> , 2006, 23, 1839-1852.	1.2	60
60	NCAM-Induced Neurite Outgrowth Depends on Binding of Calmodulin to NCAM and on Nuclear Import of NCAM and fak Fragments. <i>Journal of Neuroscience</i> , 2010, 30, 10784-10798.	1.7	59
61	Fibronectin Domains of Extracellular Matrix Molecule Tenascin-C Modulate Hippocampal Learning and Synaptic Plasticity. <i>Molecular and Cellular Neurosciences</i> , 2002, 21, 173-187.	1.0	58
62	PSA α -NCAM: Synaptic functions mediated by its interactions with proteoglycans and glutamate receptors. <i>International Journal of Biochemistry and Cell Biology</i> , 2012, 44, 591-595.	1.2	55
63	Reduced reactivity to novelty, impaired social behavior, and enhanced basal synaptic excitatory activity in perforant path projections to the dentate gyrus in young adult mice deficient in the neural cell adhesion molecule CHL1. <i>Molecular and Cellular Neurosciences</i> , 2007, 34, 121-136.	1.0	53
64	Developmental nicotine exposure induced alterations in behavior and glutamate receptor function in hippocampus. <i>Cellular and Molecular Life Sciences</i> , 2012, 69, 829-841.	2.4	52
65	SHANK3 Gene Mutations Associated with Autism Facilitate Ligand Binding to the Shank3 Ankyrin Repeat Region. <i>Journal of Biological Chemistry</i> , 2013, 288, 26697-26708.	1.6	52
66	Recognition molecule associated carbohydrate inhibits postsynaptic GABAB receptors: a mechanism for homeostatic regulation of GABA release in perisomatic synapses. <i>Molecular and Cellular Neurosciences</i> , 2003, 24, 271-282.	1.0	50
67	Extracellular Matrix and Synaptic Functions. , 2006, 43, 69-97.		49
68	Targeting of ECM molecules and their metabolizing enzymes and receptors for the treatment of CNS diseases. <i>Progress in Brain Research</i> , 2014, 214, 353-388.	0.9	48
69	Age ϵ dependent loss of parvalbumin ϵ expressing hippocampal interneurons in mice deficient in $\langle scp \rangle$ CHL $\langle /scp \rangle$ 1, a mental retardation and schizophrenia susceptibility gene. <i>Journal of Neurochemistry</i> , 2015, 135, 830-844.	2.1	48
70	NCAM180 and glutamate receptor subtypes in potentiated spine synapses: an immunogold electron microscopic study. <i>Molecular and Cellular Neurosciences</i> , 2003, 24, 939-950.	1.0	45
71	Synaptic Cell Adhesion Molecules. <i>Advances in Experimental Medicine and Biology</i> , 2012, 970, 97-128.	0.8	44
72	Neural ECM and epilepsy. <i>Progress in Brain Research</i> , 2014, 214, 229-262.	0.9	43

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73	ZDHHC3 Tyrosine Phosphorylation Regulates Neural Cell Adhesion Molecule Palmitoylation. <i>Molecular and Cellular Biology</i> , 2016, 36, 2208-2225.	1.1	43
74	Restoration of Synaptic Plasticity and Learning in Young and Aged NCAM-Deficient Mice by Enhancing Neurotransmission Mediated by GluN2A-Containing NMDA Receptors. <i>Journal of Neuroscience</i> , 2012, 32, 2263-2275.	1.7	42
75	Introduction to the EQIPD quality system. <i>ELife</i> , 2021, 10, .	2.8	42
76	Heparan Sulfates Support Pyramidal Cell Excitability, Synaptic Plasticity, and Context Discrimination. <i>Cerebral Cortex</i> , 2017, 27, 903-918.	1.6	41
77	Extracellular matrix alterations in the ketamine model of schizophrenia. <i>Neuroscience</i> , 2017, 350, 13-22.	1.1	41
78	Rapid and efficient electroporation-based gene transfer into primary dissociated neurons. <i>Journal of Neuroscience Methods</i> , 2003, 130, 65-73.	1.3	40
79	Dopamine Receptor Activation Modulates the Integrity of the Perisynaptic Extracellular Matrix at Excitatory Synapses. <i>Cells</i> , 2020, 9, 260.	1.8	40
80	Genetic ablation of tenascin- ϵ expression leads to abnormal hippocampal CA1 structure and electrical activity in vivo. <i>Hippocampus</i> , 2009, 19, 1232-1246.	0.9	39
81	In vivo Two-Photon Imaging of Anesthesia-Specific Alterations in Microglial Surveillance and Photodamage-Directed Motility in Mouse Cortex. <i>Frontiers in Neuroscience</i> , 2019, 13, 421.	1.4	39
82	Mice deficient for the extracellular matrix glycoprotein tenascin-r show physiological and structural hallmarks of increased hippocampal excitability, but no increased susceptibility to seizures in the pilocarpine model of epilepsy. <i>Neuroscience</i> , 2004, 124, 841-855.	1.1	37
83	Accumulated common variants in the broader fragile X gene family modulate autistic phenotypes. <i>EMBO Molecular Medicine</i> , 2015, 7, 1565-1579.	3.3	37
84	Potentiated amygdaloid auditory-evoked potentials and freezing behavior after fear conditioning in mice. <i>Brain Research</i> , 2001, 919, 232-241.	1.1	36
85	Transgenic mice overexpressing the extracellular domain of NCAM are impaired in working memory and cortical plasticity. <i>Neurobiology of Disease</i> , 2011, 43, 372-378.	2.1	36
86	Integration of Excitatory Postsynaptic Potentials in Dendrites of Motoneurons of Rat Spinal Cord Slice Cultures. <i>Journal of Neurophysiology</i> , 1998, 80, 924-935.	0.9	35
87	The matrix metalloproteinase inhibitor IPR-179 has antiseizure and antiepileptogenic effects. <i>Journal of Clinical Investigation</i> , 2021, 131, .	3.9	35
88	Morphogenic Signaling in Neurons Via Neurotransmitter Receptors and Small GTPases. <i>Molecular Neurobiology</i> , 2007, 35, 278-287.	1.9	34
89	Regulation of extrasynaptic signaling by polysialylated NCAM: Impact for synaptic plasticity and cognitive functions. <i>Molecular and Cellular Neurosciences</i> , 2017, 81, 12-21.	1.0	32
90	Microglia Depletion-Induced Remodeling of Extracellular Matrix and Excitatory Synapses in the Hippocampus of Adult Mice. <i>Cells</i> , 2021, 10, 1862.	1.8	32

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91	A Homeostatic Model of Neuronal Firing Governed by Feedback Signals from the Extracellular Matrix. PLoS ONE, 2012, 7, e41646.	1.1	30
92	Comparison of the topology and growth rules of motoneuronal dendrites. Journal of Comparative Neurology, 1995, 363, 505-516.	0.9	29
93	Evaluation of Toxicity and Neural Uptake In Vitro and In Vivo of Superparamagnetic Iron Oxide Nanoparticles. International Journal of Molecular Sciences, 2018, 19, 2613.	1.8	29
94	Potential of amygdaloid and hippocampal auditory-evoked potentials in a discriminatory fear-conditioning task in mice as a function of tone pattern and context. European Journal of Neuroscience, 2003, 18, 639-650.	1.2	26
95	Serotonin 5-HT ₄ receptor boosts functional maturation of dendritic spines via RhoA-dependent control of F-actin. Communications Biology, 2020, 3, 76.	2.0	26
96	Interplay between perivascular and perineuronal extracellular matrix remodelling in neurological and psychiatric diseases. European Journal of Neuroscience, 2021, 53, 3811-3830.	1.2	26
97	Extracellular matrix remodeling through endocytosis and resurfacing of Tenascin-R. Nature Communications, 2021, 12, 7129.	5.8	25
98	The Low-Threshold Calcium Channel Cav3.2 Mediates Burst Firing of Mature Dentate Granule Cells. Cerebral Cortex, 2018, 28, 2594-2609.	1.6	24
99	Single Channel Recordings From Synaptosomal AMPA Receptors. Cell Biochemistry and Biophysics, 2005, 42, 075-086.	0.9	23
100	Functional Consequences of the Interactions among the Neural Cell Adhesion Molecule NCAM, the Receptor Tyrosine Kinase TrkB, and the Inwardly Rectifying K ⁺ Channel KIR3.3. Journal of Biological Chemistry, 2010, 285, 28968-28979.	1.6	23
101	Memory enhancement by ferulic acid ester across species. Science Advances, 2018, 4, eaat6994.	4.7	23
102	Light-induced engagement of microglia to focally remodel synapses in the adult brain. ELife, 2020, 9, .	2.8	23
103	β ² -amyloid and glutamate receptors. Experimental Neurology, 2008, 212, 1-4.	2.0	22
104	Retarded kindling progression in mice deficient in the extracellular matrix glycoprotein tenascin-R. Epilepsia, 2009, 50, 859-869.	2.6	22
105	Activity-dependent switches between dynamic regimes of extracellular matrix expression. PLoS ONE, 2020, 15, e0227917.	1.1	22
106	Traditional Japanese Herbal Medicine Yokukansan Targets Distinct but Overlapping Mechanisms in Aged Mice and in the 5xFAD Mouse Model of Alzheimer's Disease. Frontiers in Aging Neuroscience, 2018, 10, 411.	1.7	21
107	Electroporation-based gene transfer for efficient transfection of neural precursor cells. Molecular Brain Research, 2005, 138, 182-190.	2.5	20
108	Fine structure analysis of perineuronal nets in the ketamine model of schizophrenia. European Journal of Neuroscience, 2021, 53, 3988-4004.	1.2	20

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109	The 14-3-3 η Protein Binds to the Cell Adhesion Molecule L1, Promotes L1 Phosphorylation by CKII and Influences L1-Dependent Neurite Outgrowth. <i>PLoS ONE</i> , 2010, 5, e13462.	1.1	20
110	Transient Activity of Excitatory Cl ⁻ Channels in Chara: Evidence for Quantal Release of a Gating Factor. <i>Journal of Membrane Biology</i> , 1998, 163, 183-191.	1.0	19
111	Modulation of network activity and induction of homeostatic synaptic plasticity by enzymatic removal of heparan sulfates. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2014, 369, 20140134.	1.8	19
112	Postnatal aniracetam treatment improves prenatal ethanol induced attenuation of AMPA receptor-mediated synaptic transmission. <i>Neurobiology of Disease</i> , 2007, 26, 696-706.	2.1	17
113	Ameliorating effects of preadolescent aniracetam treatment on prenatal ethanol-induced impairment in AMPA receptor activity. <i>Neurobiology of Disease</i> , 2008, 29, 81-91.	2.1	15
114	Amelioration of Tau pathology and memory deficits by targeting 5-HT7 receptor. <i>Progress in Neurobiology</i> , 2021, 197, 101900.	2.8	15
115	Intra- and Extracellular Pillars of a Unifying Framework for Homeostatic Plasticity: A Crosstalk Between Metabotropic Receptors and Extracellular Matrix. <i>Frontiers in Cellular Neuroscience</i> , 2019, 13, 513.	1.8	14
116	Modeling of the quantal release at interneuronal synapses: analysis of permissible values of model moments. <i>Journal of Neuroscience Methods</i> , 1992, 43, 201-214.	1.3	13
117	Preface. <i>Progress in Brain Research</i> , 2014, 214, xiii-xvii.	0.9	13
118	Neural cell adhesion molecule ablation in mice causes hippocampal dysplasia and loss of septal cholinergic neurons. <i>Journal of Comparative Neurology</i> , 2011, 519, 2475-2492.	0.9	12
119	LGII downregulation increases neuronal circuit excitability. <i>Epilepsia</i> , 2020, 61, 2836-2846.	2.6	12
120	Attenuation of the extracellular matrix restores microglial activity during the early stage of amyloidosis. <i>Glia</i> , 2021, 69, 182-200.	2.5	12
121	Limits of quantal analysis reliability: quantal and unimodal constraints and setting of confidence intervals for quantal size. <i>Journal of Neuroscience Methods</i> , 1993, 50, 67-82.	1.3	11
122	Structural and physiological properties of connections between individual reticulospinal axons and lumbar motoneurons of the frog. <i>Journal of Comparative Neurology</i> , 2001, 430, 433-447.	0.9	11
123	Matrix metalloproteinase ϵ 9 and non ϵ amyloidogenic pathway of amyloid precursor protein processing. <i>Journal of Neurochemistry</i> , 2012, 121, 181-183.	2.1	11
124	Heparin/heparan sulfates bind to and modulate neuronal L-type (Cav1.2) voltage-dependent Ca ²⁺ channels. <i>Experimental Neurology</i> , 2015, 274, 156-165.	2.0	10
125	Quantal analysis based on spectral methods. <i>Pflugers Archiv European Journal of Physiology</i> , 1994, 429, 22-26.	1.3	9
126	A novel versatile hybrid infusion-multielectrode recording (HIME) system for acute drug delivery and multisite acquisition of neuronal activity in freely moving mice. <i>Frontiers in Neuroscience</i> , 2015, 9, 425.	1.4	9

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127	Impaired Fear Extinction Due to a Deficit in Ca ²⁺ Influx Through L-Type Voltage-Gated Ca ²⁺ Channels in Mice Deficient for Tenascin-C. <i>Frontiers in Integrative Neuroscience</i> , 2017, 11, 16.	1.0	9
128	Brain extracellular matrix: An upcoming target in neurological and psychiatric disorders. <i>European Journal of Neuroscience</i> , 2021, 53, 3807-3810.	1.2	9
129	Context value updating and multidimensional neuronal encoding in the retrosplenial cortex. <i>Nature Communications</i> , 2021, 12, 6045.	5.8	8
130	Reliability of spike propagation in arborizations of dorsal root fibers studied by analysis of postsynaptic potentials mediated by electrotonic coupling in the frog spinal cord. <i>Journal of Neurophysiology</i> , 1996, 76, 3451-3459.	0.9	7
131	Brain circuitry outside the synaptic cleft. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2014, 369, 20130591.	1.8	7
132	Combining principal component and spectral analyses with the method of moments in studies of quantal transmission. <i>Journal of Neuroscience Methods</i> , 2003, 130, 173-199.	1.3	6
133	Analysis of Neural Cell Functions in Gene Knockout Mice: Electrophysiological Investigation of Synaptic Plasticity in Acute Hippocampal Slices. <i>Methods in Enzymology</i> , 2006, 417, 52-66.	0.4	6
134	Synaptic Differentiation of Single Descending Fibers Studied by Triple Intracellular Recording in the Frog Spinal Cord. <i>Journal of Neurophysiology</i> , 1998, 79, 763-768.	0.9	5
135	Extracellular matrix molecules, their receptors, and extracellular proteases as synaptic plasticity modulators. <i>Neurochemical Journal</i> , 2012, 6, 89-99.	0.2	5
136	Zooming in on the (Peri)synaptic Extracellular Matrix. <i>Neuromethods</i> , 2014, , 187-203.	0.2	5
137	Analysis of transmission at interneuronal synapses using a convolution of binomial distributions. <i>Neurophysiology</i> , 1988, 20, 357-363.	0.2	4
138	A correlative physiological and morphological analysis of monosynaptically connected propriospinal axon-motoneuron pairs in the lumbar spinal cord of frogs. <i>Neuroscience</i> , 2001, 106, 405-417.	1.1	4
139	Current microscopic methods for the neural ECM analysis. <i>Progress in Brain Research</i> , 2014, 214, 287-312.	0.9	4
140	The Golgi-Associated PDZ Domain Protein Gopc/PIST Is Required for Synaptic Targeting of mGluR5. <i>Molecular Neurobiology</i> , 2021, 58, 5618-5634.	1.9	4
141	Aging-Associated Changes in Cognition, Expression and Epigenetic Regulation of Chondroitin 6-Sulfotransferase Chst3. <i>Cells</i> , 2022, 11, 2033.	1.8	4
142	Structure of serotonin receptors: molecular underpinning of receptor activation and modulation. <i>Signal Transduction and Targeted Therapy</i> , 2021, 6, 243.	7.1	3
143	Transgenic modeling of Ndr2 gene amplification reveals disturbance of hippocampus circuitry and function. <i>iScience</i> , 2021, 24, 102868.	1.9	3
144	Quantal analysis of postsynaptic potentials at interneuronal synapses: Recovery of a signal from noise. <i>Neurophysiology</i> , 1988, 20, 350-357.	0.2	2

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145	Synaptic Plasticity in Dissociated Hippocampal Cultures: Pre- and Postsynaptic Contributions. <i>European Journal of Neuroscience</i> , 1997, 9, 1078-1082.	1.2	2
146	With a little help from EphA3 and polysialic acid: Ectodomain shedding of <scp>NCAM</scp> is gaining momentum. <i>Journal of Neurochemistry</i> , 2014, 128, 206-209.	2.1	2
147	5â€œ<scp>HT</scp>7 receptor shapes spinogenesis in cortical and striatal neurons. <i>Journal of Neurochemistry</i> , 2017, 141, 644-646.	2.1	2
148	Deficiency in MT5-MMP Supports Branching of Human iPSCs-Derived Neurons and Reduces Expression of GLAST/S100 in iPSCs-Derived Astrocytes. <i>Cells</i> , 2021, 10, 1705.	1.8	2
149	Synaptic Functions of the Neural Cell Adhesion Molecule, NCAM. , 2006, , 97-110.		2
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