

Synaptic Plasticity: Multiple Forms, Functions, and Mec

Neuropsychopharmacology

33, 18-41

DOI: [10.1038/sj.npp.1301559](https://doi.org/10.1038/sj.npp.1301559)

Citation Report

#	ARTICLE	IF	CITATIONS
1	The dynamics of synaptic scaffolds. <i>BioEssays</i> , 2008, 30, 1062-1074.	1.2	39
2	Philosophical Challenges for Researchers at the Interface between Neuroscience and Education. <i>Journal of Philosophy of Education</i> , 2008, 42, 361-380.	0.4	45
3	Timing in Cellular Ca ²⁺ Signaling. <i>Current Biology</i> , 2008, 18, R769-R776.	1.8	52
4	Brain development: anatomy, connectivity, adaptive plasticity, and toxicity. <i>Metabolism: Clinical and Experimental</i> , 2008, 57, S2-S5.	1.5	56
5	Serotonergic mechanisms in addiction-related memories. <i>Behavioural Brain Research</i> , 2008, 195, 39-53.	1.2	40
6	C-Type natriuretic peptide modulates pre- and postsynaptic properties in hippocampal area CA1 in vitro. <i>Biochemical and Biophysical Research Communications</i> , 2008, 377, 820-825.	1.0	9
7	Riluzole in the Treatment of Mood and Anxiety Disorders. <i>CNS Drugs</i> , 2008, 22, 761-786.	2.7	150
8	Interleukin-6 Upregulates Neuronal Adenosine A1 Receptors: Implications for Neuromodulation and Neuroprotection. <i>Neuropsychopharmacology</i> , 2008, 33, 2237-2250.	2.8	63
9	UNVEILING NOVEL FORMS OF HIPPOCAMPAL SYNAPTIC PLASTICITY WITH MICROELECTRODE ARRAYS. <i>Journal of Integrative Neuroscience</i> , 2008, 07, 249-270.	0.8	5
10	Translocation of GluR1-Containing AMPA Receptors to a Spinal Nociceptive Synapse during Acute Noxious Stimulation. <i>Journal of Neuroscience</i> , 2008, 28, 7084-7090.	1.7	81
11	Brain-Derived Neurotrophic Factor: <i>The Neurotrophin Hypothesis of Psychopathology</i>. <i>CNS Spectrums</i> , 2008, 13, 945-949.	0.7	32
12	<i>Caenorhabditis elegans</i> as a Model System in Which to Study the Fundamentals of Learning and Memory. <i>Advances in Psychology</i> , 2008, 139, 227-242.	0.1	1
13	Group I Metabotropic Glutamate Receptors: Involvement in Drug-Seeking and Drug-Induced Plasticity. <i>Current Molecular Pharmacology</i> , 2009, 2, 83-94.	0.7	39
14	Differing presynaptic contributions to LTP and associative learning in behaving mice. <i>Frontiers in Behavioral Neuroscience</i> , 2009, 3, 7.	1.0	43
15	Neurobiology of depression, fibromyalgia and neuropathic pain. <i>Frontiers in Bioscience - Landmark</i> , 2009, 14, 5291.	3.0	279
16	Synapse Plasticity in Motor, Sensory, and Limbo-Prefrontal Cortex Areas as Measured by Degrading Axon Terminals in an Environment Model of Gerbils (<i>Meriones unguiculatus</i>). <i>Neural Plasticity</i> , 2009, 2009, 1-14.	1.0	14
17	Phosphodiesterase 10A Inhibitor Activity in Preclinical Models of the Positive, Cognitive, and Negative Symptoms of Schizophrenia. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2009, 331, 574-590.	1.3	261
18	Pediatric Constraint-Induced Movement Therapy: A Promising Intervention for Childhood Hemiparesis. <i>Topics in Stroke Rehabilitation</i> , 2009, 16, 339-345.	1.0	5

#	ARTICLE	IF	CITATIONS
19	Cannabinoid CB ₁ Receptor-Dependent Long-Term Depression in Autaptic Excitatory Neurons. <i>Journal of Neurophysiology</i> , 2009, 102, 1160-1171.	0.9	41
20	Stressor and Glucocorticoid-Dependent Induction of the Immediate Early Gene Kru \ddot{u} ppel-Like Factor 9: Implications for Neural Development and Plasticity. <i>Endocrinology</i> , 2009, 150, 1757-1765.	1.4	89
21	Reduced Expression of the NMDA Receptor-Interacting Protein SynGAP Causes Behavioral Abnormalities that Model Symptoms of Schizophrenia. <i>Neuropsychopharmacology</i> , 2009, 34, 1659-1672.	2.8	106
22	Neurobiological mechanisms underlying emotional processing in relapsing-remitting multiple sclerosis. <i>Brain</i> , 2009, 132, 3380-3391.	3.7	96
23	Changes in Striatal Signaling Induce Remodeling of RGS Complexes Containing G \ddot{u} 25 and R7BP Subunits. <i>Molecular and Cellular Biology</i> , 2009, 29, 3033-3044.	1.1	31
24	Molecular mechanisms of experience-dependent plasticity in visual cortex. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2009, 364, 341-355.	1.8	113
25	The Rho-linked mental retardation protein oligophrenin-1 controls synapse maturation and plasticity by stabilizing AMPA receptors. <i>Genes and Development</i> , 2009, 23, 1289-1302.	2.7	125
26	Vasoactive intestinal peptide acts via multiple signal pathways to regulate hippocampal NMDA receptors and synaptic transmission. <i>Hippocampus</i> , 2009, 19, 779-789.	0.9	36
27	Plasticity in the developing brain: Implications for rehabilitation. <i>Developmental Disabilities Research Reviews</i> , 2009, 15, 94-101.	2.9	445
28	Alzheimer's disease: synaptic dysfunction and A β 2. <i>Molecular Neurodegeneration</i> , 2009, 4, 48.	4.4	388
29	TrkB signalling pathways in LTP and learning. <i>Nature Reviews Neuroscience</i> , 2009, 10, 850-860.	4.9	890
30	Effects of thyroid hormone replacement on associative learning and hippocampal synaptic plasticity in adult hypothyroid rats. <i>European Journal of Neuroscience</i> , 2009, 30, 679-692.	1.2	50
31	3-methylcrotonyl-CoA carboxylase-dependent long-term depression are differentially regulated by the ubiquitin-proteasome system. <i>European Journal of Neuroscience</i> , 2009, 30, 1443-1450.	1.2	51
32	Role of polysialylated neural cell adhesion molecule in rapid eye movement sleep regulation in rats. <i>European Journal of Neuroscience</i> , 2009, 30, 2190-2204.	1.2	8
33	Ethanol increases desensitization of recombinant GluR-D AMPA receptor and TARP combinations. <i>Alcohol</i> , 2009, 43, 277-284.	0.8	15
34	Metabotropic Glutamate Receptor-Mediated Long-Term Depression: Molecular Mechanisms. <i>Pharmacological Reviews</i> , 2009, 61, 395-412.	7.1	194
35	Cortical Excitability in Chronic Stroke and Modulation by Training: A TMS Study. <i>Neurorehabilitation and Neural Repair</i> , 2009, 23, 486-493.	1.4	56
36	The developmental cognitive neuroscience of functional connectivity. <i>Brain and Cognition</i> , 2009, 70, 1-12.	0.8	96

#	ARTICLE	IF	CITATIONS
37	Short-term and long-term plasticity at corticostriatal synapses: Implications for learning and memory. <i>Behavioural Brain Research</i> , 2009, 199, 108-118.	1.2	115
38	Temporal Phases of Activity-Dependent Plasticity and Memory Are Mediated by Compartmentalized Routing of MAPK Signaling in <i>Aplysia</i> Sensory Neurons. <i>Neuron</i> , 2009, 61, 113-125.	3.8	31
39	Pregnenolone sulfate modulation of N-methyl-d-aspartate receptors is phosphorylation dependent. <i>Neuroscience</i> , 2009, 160, 616-628.	1.1	24
40	Synaptic plasticity along the sleep-wake cycle: Implications for epilepsy. <i>Epilepsy and Behavior</i> , 2009, 14, 47-53.	0.9	14
41	Cortical kindling induces elevated levels of AMPA and GABA receptor subunit mRNA within the amygdala/piriform region and is associated with behavioral changes in the rat. <i>Epilepsy and Behavior</i> , 2009, 16, 404-410.	0.9	5
42	cGMP Signalling in the Mammalian Brain: Role in Synaptic Plasticity and Behaviour. <i>Handbook of Experimental Pharmacology</i> , 2009, , 549-579.	0.9	136
43	Tractography-based priors for dynamic causal models. <i>NeuroImage</i> , 2009, 47, 1628-1638.	2.1	137
44	Soluble Oligomers of Amyloid β Protein Facilitate Hippocampal Long-Term Depression by Disrupting Neuronal Glutamate Uptake. <i>Neuron</i> , 2009, 62, 788-801.	3.8	818
46	The Arc of synaptic memory. <i>Experimental Brain Research</i> , 2010, 200, 125-140.	0.7	416
47	Role of BDNF and GDNF in drug reward and relapse: A review. <i>Neuroscience and Biobehavioral Reviews</i> , 2010, 35, 157-171.	2.9	187
48	Calcium hypothesis of Alzheimer's disease. <i>Pflugers Archiv European Journal of Physiology</i> , 2010, 459, 441-449.	1.3	312
49	Exogenous Glutamate-Induced Modulation of Neurosecretory Process in Nerve Terminals Obtained from the Rat Brain. <i>Neurophysiology</i> , 2010, 42, 83-91.	0.2	1
50	Phosphorylation Changes of CaMKII, ERK1/2, PKB/Akt Kinases and CREB Activation During Early Long-Term Potentiation at Schaffer Collateral-CA1 Mouse Hippocampal Synapses. <i>Neurochemical Research</i> , 2010, 35, 239-246.	1.6	42
51	Changes in NMDA receptor contribution to synaptic transmission in the brain in a rat model of glaucoma. <i>Neurobiology of Disease</i> , 2010, 39, 344-351.	2.1	12
52	Modeling signal transduction in synaptic plasticity: comparison of models and methods. <i>BMC Neuroscience</i> , 2010, 11, .	0.8	0
53	DREAM (Downstream Regulatory Element Antagonist Modulator) contributes to synaptic depression and contextual fear memory. <i>Molecular Brain</i> , 2010, 3, 3.	1.3	67
54	HCNP precursor protein transgenic mice display a depressive-like phenotype in old age. <i>Brain Research</i> , 2010, 1349, 153-161.	1.1	22
55	Viagra for your synapses: Enhancement of hippocampal long-term potentiation by activation of beta-adrenergic receptors. <i>Cellular Signalling</i> , 2010, 22, 728-736.	1.7	77

#	ARTICLE	IF	CITATIONS
56	Acute stress disrupts paired pulse facilitation and long-term potentiation in rat dorsal hippocampus through activation of glucocorticoid receptors. <i>Hippocampus</i> , 2010, 20, 1327-1331.	0.9	45
57	How conditioned stimuli acquire the ability to activate VTA dopamine cells: A proposed neurobiological component of reward-related learning. <i>Neuroscience and Biobehavioral Reviews</i> , 2010, 34, 769-780.	2.9	59
58	Ethanol Acutely Inhibits Ionotropic Glutamate Receptor-Mediated Responses and Long-Term Potentiation in the Developing CA1 Hippocampus. <i>Alcoholism: Clinical and Experimental Research</i> , 2010, 34, 594-606.	1.4	47
59	Unravelling the development of the visual cortex: implications for plasticity and repair. <i>Journal of Anatomy</i> , 2010, 217, 449-468.	0.9	48
60	Modelling the molecular mechanisms of synaptic plasticity using systems biology approaches. <i>Nature Reviews Neuroscience</i> , 2010, 11, 239-251.	4.9	165
61	AMPA receptor subunits define properties of state-dependent synaptic plasticity. <i>Journal of Physiology</i> , 2010, 588, 1929-1946.	1.3	21
62	AMPA receptors and synaptic plasticity: a chemist's perspective. <i>Nature Chemical Biology</i> , 2010, 6, 89-97.	3.9	33
63	Central clock excites vasopressin neurons by waking osmosensory afferents during late sleep. <i>Nature Neuroscience</i> , 2010, 13, 467-474.	7.1	89
64	Role of immune molecules in the establishment and plasticity of glutamatergic synapses. <i>European Journal of Neuroscience</i> , 2010, 32, 207-217.	1.2	37
65	Postsynaptic Signal Transduction Models for Long-Term Potentiation and Depression. <i>Frontiers in Computational Neuroscience</i> , 2010, 4, 152.	1.2	46
66	Presynaptic NMDA receptors and spike timing-dependent long-term depression at cortical synapses. <i>Frontiers in Synaptic Neuroscience</i> , 2010, 2, 18.	1.3	48
67	PKM ζ Inhibition Reverses Learning-Induced Increases in Hippocampal Synaptic Strength and Memory during Trace Eyeblink Conditioning. <i>PLoS ONE</i> , 2010, 5, e10400.	1.1	53
68	Associative Stimulation of the Supraorbital Nerve Fails to Induce Timing-Specific Plasticity in the Human Blink Reflex. <i>PLoS ONE</i> , 2010, 5, e13602.	1.1	14
69	MHC class I modulates NMDA receptor function and AMPA receptor trafficking. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 22278-22283.	3.3	79
70	Calcium Binding to PICK1 Is Essential for the Intracellular Retention of AMPA Receptors Underlying Long-Term Depression. <i>Journal of Neuroscience</i> , 2010, 30, 16437-16452.	1.7	105
71	Gating Modes in AMPA Receptors. <i>Journal of Neuroscience</i> , 2010, 30, 4449-4459.	1.7	58
72	Synaptic Plasticity in the Pathophysiology and Treatment of Bipolar Disorder. <i>Current Topics in Behavioral Neurosciences</i> , 2010, 5, 167-185.	0.8	11
73	Phosphodiesterase Inhibition to Target the Synaptic Dysfunction in Alzheimer's Disease. <i>Topics in Medicinal Chemistry</i> , 2010, , 57-90.	0.4	11

#	ARTICLE	IF	CITATIONS
74	Back to the future: rehabilitation of children after brain injury. Archives of Disease in Childhood, 2010, 95, 554-559.	1.0	31
75	Movement-Related Cortical Stimulation Can Induce Human Motor Plasticity. Journal of Neuroscience, 2010, 30, 11529-11536.	1.7	57
76	Caveolin-1 knockout mice exhibit impaired induction of mGluR-dependent long-term depression at CA3-CA1 synapses. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 21778-21783.	3.3	36
77	Supplementary reading. , 2010, , 174-179.		0
79	Reelin Regulates Postnatal Neurogenesis and Enhances Spine Hypertrophy and Long-Term Potentiation. Journal of Neuroscience, 2010, 30, 4636-4649.	1.7	195
80	Recent Progress in the Discovery of Non-Sarcosine Based GlyT1 Inhibitors. Current Topics in Medicinal Chemistry, 2010, 10, 170-186.	1.0	44
81	Phosphodiesterase Inhibitors as Potential Cognition Enhancing Agents. Current Topics in Medicinal Chemistry, 2010, 10, 222-230.	1.0	62
82	â€œInvolving Interfaceâ€ An Extended Mind Theoretical Approach to Roboethics. Accountability in Research, 2010, 17, 316-329.	1.6	5
83	Normal Development of Brain Circuits. Neuropsychopharmacology, 2010, 35, 147-168.	2.8	1,033
84	Is Glycogen Synthase Kinase-3 a Central Modulator in Mood Regulation?. Neuropsychopharmacology, 2010, 35, 2143-2154.	2.8	261
85	Adolescent brain maturation, the endogenous cannabinoid system and the neurobiology of cannabis-induced schizophrenia. Progress in Neurobiology, 2010, 92, 370-385.	2.8	276
86	Glutamate Receptor Ion Channels: Structure, Regulation, and Function. Pharmacological Reviews, 2010, 62, 405-496.	7.1	2,973
87	The Hippocampal Formation in Schizophrenia. American Journal of Psychiatry, 2010, 167, 1178-1193.	4.0	507
88	Wnt-5a Modulates Recycling of Functional GABAA Receptors on Hippocampal Neurons. Journal of Neuroscience, 2010, 30, 8411-8420.	1.7	112
89	Transcranial alternating current stimulation in the low kHz range increases motor cortex excitability. Restorative Neurology and Neuroscience, 2011, 29, 167-175.	0.4	85
90	Zooming in on AMPA receptor regulation by CaMKII. Nature Neuroscience, 2011, 14, 674-675.	7.1	6
91	Functional connectivity MRI in infants: Exploration of the functional organization of the developing brain. NeuroImage, 2011, 56, 1437-1452.	2.1	204
92	Normal and abnormal functions of adenosine receptors in the central nervous system revealed by genetic knockout studies. Biochimica Et Biophysica Acta - Biomembranes, 2011, 1808, 1358-1379.	1.4	125

#	ARTICLE	IF	CITATIONS
93	A stabilising influence: Integrins in regulation of synaptic plasticity. <i>Neuroscience Research</i> , 2011, 70, 24-29.	1.0	57
94	Presynaptic function in health and disease. <i>Trends in Neurosciences</i> , 2011, 34, 326-337.	4.2	106
95	Balancing Life and Death in the Ischemic Brain: SIK and TORC Weigh In. <i>Neuron</i> , 2011, 69, 3-6.	3.8	5
96	Rapid Synthesis of the X-Linked Mental Retardation Protein OPHN1 Mediates mGluR-Dependent LTD through Interaction with the Endocytic Machinery. <i>Neuron</i> , 2011, 72, 300-315.	3.8	70
97	Changes in calcineurin message, enzyme activity and protein content in the spinal dorsal horn are associated with chronic constriction injury of the rat sciatic nerve. <i>Neuroscience</i> , 2011, 188, 142-147.	1.1	14
98	A Truncated Retrotransposon Disrupts the <i>GRM1</i> Coding Sequence in Coton de Tulear Dogs with Bandera's Neonatal Ataxia. <i>Journal of Veterinary Internal Medicine</i> , 2011, 25, 267-272.	0.6	34
99	New Therapeutic Strategy for Mood Disorders. <i>Current Medicinal Chemistry</i> , 2011, 18, 4284-4298.	1.2	16
100	SAP97 directs NMDA receptor spine targeting and synaptic plasticity. <i>Journal of Physiology</i> , 2011, 589, 4491-4510.	1.3	41
101	Long-term plasticity at inhibitory synapses. <i>Current Opinion in Neurobiology</i> , 2011, 21, 328-338.	2.0	191
102	Calcium Signalling and Alzheimer's Disease. <i>Neurochemical Research</i> , 2011, 36, 1149-1156.	1.6	159
103	Alzheimer's disease: synapses gone cold. <i>Molecular Neurodegeneration</i> , 2011, 6, 63.	4.4	250
104	Chronically saturating levels of endogenous glycine disrupt glutamatergic neurotransmission and enhance synaptogenesis in the CA1 region of mouse hippocampus. <i>Synapse</i> , 2011, 65, 1181-1195.	0.6	8
105	Extracellular matrix molecules, their receptors, and secreted proteases in synaptic plasticity. <i>Developmental Neurobiology</i> , 2011, 71, 1040-1053.	1.5	115
106	C2 Domains and Membrane Fusion. <i>Current Topics in Membranes</i> , 2011, 68, 141-159.	0.5	9
107	Sleep and developmental plasticity. <i>Progress in Brain Research</i> , 2011, 193, 221-232.	0.9	50
108	Arrangement of Subunits in Functional NMDA Receptors. <i>Journal of Neuroscience</i> , 2011, 31, 11295-11304.	1.7	92
109	Mechanisms of Modal Activation of GluA3 Receptors. <i>Molecular Pharmacology</i> , 2011, 80, 49-59.	1.0	41
110	Neuronal Nitric Oxide Contributes to Neuroplasticity-Associated Protein Expression through cGMP, Protein Kinase G, and Extracellular Signal-Regulated Kinase. <i>Journal of Neuroscience</i> , 2011, 31, 6947-6955.	1.7	85

#	ARTICLE	IF	CITATIONS
111	Developing a Deeper Understanding of Autism: Connecting Knowledge through Literature Mining. <i>Autism Research & Treatment</i> , 2011, 2011, 1-8.	0.1	7
112	Modeling Signal Transduction Leading to Synaptic Plasticity: Evaluation and Comparison of Five Models. <i>Eurasip Journal on Bioinformatics and Systems Biology</i> , 2011, 2011, 797250.	1.4	9
114	When what you see is not what you hear. <i>Nature Neuroscience</i> , 2011, 14, 675-676.	7.1	5
115	Colocalization of Protein Kinase A with Adenylyl Cyclase Enhances Protein Kinase A Activity during Induction of Long-Lasting Long-Term-Potentiation. <i>PLoS Computational Biology</i> , 2011, 7, e1002084.	1.5	44
116	A Tale of Two Stories: Astrocyte Regulation of Synaptic Depression and Facilitation. <i>PLoS Computational Biology</i> , 2011, 7, e1002293.	1.5	104
117	Regulation of synaptic functions in central nervous system by endocrine hormones and the maintenance of energy homeostasis. <i>Bioscience Reports</i> , 2012, 32, 423-432.	1.1	24
118	Aquaporin-4 Deficiency Impairs Synaptic Plasticity and Associative Fear Memory in the Lateral Amygdala: Involvement of Downregulation of Glutamate Transporter-1 Expression. <i>Neuropsychopharmacology</i> , 2012, 37, 1867-1878.	2.8	96
119	Effects of Electroconvulsive Stimulation on Long-Term Potentiation and Synaptophysin in the Hippocampus of Rats With Depressive Behavior. <i>Journal of ECT</i> , 2012, 28, 111-117.	0.3	29
120	Polygalasaponin F induces long-term potentiation in adult rat hippocampus via NMDA receptor activation. <i>Acta Pharmacologica Sinica</i> , 2012, 33, 431-437.	2.8	14
121	Mapping the Binding of GluN2B-Selective <i>N</i> -Methyl-d-aspartate Receptor Negative Allosteric Modulators. <i>Molecular Pharmacology</i> , 2012, 82, 344-359.	1.0	44
122	5-HT ₇ Receptor Signaling Regulates Neuronal Morphology and Function in an Age-Dependent Manner. <i>Journal of Neuroscience</i> , 2012, 32, 2915-2930.	1.7	107
123	Perisynaptic GABA Receptors: The Overzealous Protector. <i>Advances in Pharmacological Sciences</i> , 2012, 2012, 1-8.	3.7	20
124	Glutamate Dysfunction in Hippocampus: Relevance of Dentate Gyrus and CA3 Signaling. <i>Schizophrenia Bulletin</i> , 2012, 38, 927-935.	2.3	118
125	Immune Disturbances in Chronic Pain: Cause, Consequence or Both?. <i>Current Immunology Reviews</i> , 2012, 8, 76-86.	1.2	1
126	From A1 to A3 en passant Through A2A Receptors in the Hippocampus: Pharmacological Implications. <i>CNS and Neurological Disorders - Drug Targets</i> , 2012, 11, 652-663.	0.8	7
127	The Structure of (S)-Kainocephalin Bound to the Ligand Binding Domain of the (S)-1- α -Amino-3-hydroxy-5-methyl-4-isoxazolepropionic Acid (AMPA)/Glutamate Receptor, GluA2. <i>Journal of Biological Chemistry</i> , 2012, 287, 41007-41013.	1.6	10
128	Calcium control of triphasic hippocampal STDP. <i>Journal of Computational Neuroscience</i> , 2012, 33, 495-514.	0.6	15
129	The Loss of an Electrostatic Contact Unique to AMPA Receptor Ligand Binding Domain 2 Slows Channel Activation. <i>Biochemistry</i> , 2012, 51, 4015-4027.	1.2	9

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130	Adenosine hypothesis of schizophrenia â€œ Opportunities for pharmacotherapy. <i>Neuropharmacology</i> , 2012, 62, 1527-1543.	2.0	160
131	Towards a glutamate hypothesis of depression. <i>Neuropharmacology</i> , 2012, 62, 63-77.	2.0	831
132	Putting proteins in their place: Palmitoylation in Huntington disease and other neuropsychiatric diseases. <i>Progress in Neurobiology</i> , 2012, 97, 220-238.	2.8	118
133	Cannabinoids and monoamine neurotransmission with focus on monoamine oxidase. <i>Progress in Neuro-Psychopharmacology and Biological Psychiatry</i> , 2012, 38, 68-77.	2.5	20
134	MSK1 Regulates Homeostatic and Experience-Dependent Synaptic Plasticity. <i>Journal of Neuroscience</i> , 2012, 32, 13039-13051.	1.7	67
135	Optogenetic approaches to characterize the long-range synaptic pathways from the hypothalamus to brain stem autonomic nuclei. <i>Journal of Neuroscience Methods</i> , 2012, 210, 238-246.	1.3	52
136	IP3-dependent intracellular Ca ²⁺ release is required for cAMP-induced c-fos expression in hippocampal neurons. <i>Biochemical and Biophysical Research Communications</i> , 2012, 425, 450-455.	1.0	9
137	Restorative neurology: Consideration of the new anatomy and physiology of the injured nervous system. <i>Clinical Neurology and Neurosurgery</i> , 2012, 114, 436-440.	0.6	20
138	Recognition memory and synaptic plasticity in the perirhinal and prefrontal cortices. <i>Hippocampus</i> , 2012, 22, 2012-2031.	0.9	21
139	6.2 Structure-Function Correlates of Glutamate-Gated Ion Channels. , 2012, , 4-30.		0
140	DHA supplementation enhances high-frequency, stimulation-induced synaptic transmission in mouse hippocampus. <i>Applied Physiology, Nutrition and Metabolism</i> , 2012, 37, 880-887.	0.9	17
141	Activation of 5-HT ₇ Serotonin Receptors Reverses Metabotropic Glutamate Receptor-Mediated Synaptic Plasticity in Wild-Type and Fmr1 Knockout Mice, a Model of Fragile X Syndrome. <i>Biological Psychiatry</i> , 2012, 72, 924-933.	0.7	109
142	Plasticity of motor threshold and motor-evoked potential amplitude â€œ A model of intrinsic and synaptic plasticity in human motor cortex?. <i>Brain Stimulation</i> , 2012, 5, 586-593.	0.7	53
143	Serotonin-1A receptor binding is positively associated with gray matter volume â€œ A multimodal neuroimaging study combining PET and structural MRI. <i>NeuroImage</i> , 2012, 63, 1091-1098.	2.1	27
144	Nicotine Uses Neuron-Glia Communication to Enhance Hippocampal Synaptic Transmission and Long-term Memory. <i>PLoS ONE</i> , 2012, 7, e49998.	1.1	28
145	Prefrontal Dopaminergic and Enkephalinergic Synaptic Accommodation in HIV-associated Neurocognitive Disorders and Encephalitis. <i>Journal of Neuroimmune Pharmacology</i> , 2012, 7, 686-700.	2.1	78
146	What pharmacological interventions indicate concerning the role of the perirhinal cortex in recognition memory. <i>Neuropsychologia</i> , 2012, 50, 3122-3140.	0.7	72
147	Brain Phenotype of Transgenic Mice Overexpressing Cystathionine Î²-Synthase. <i>PLoS ONE</i> , 2012, 7, e29056.	1.1	23

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148	Restoration of Contralateral Representation in the Mouse Somatosensory Cortex after Crossing Nerve Transfer. <i>PLoS ONE</i> , 2012, 7, e35676.	1.1	18
149	Neuroplasticity in addiction: cellular and transcriptional perspectives. <i>Frontiers in Molecular Neuroscience</i> , 2012, 5, 99.	1.4	31
150	Cognitive Remediation in Schizophrenia. <i>Clinical Psychopharmacology and Neuroscience</i> , 2012, 10, 125-135.	0.9	39
151	Neurotransmission in Mood Disorders. , 2012, , .		1
152	Ca ²⁺ Signaling: An Outlook on the Characterization of Ca ²⁺ Channels and Their Importance in Cellular Functions. <i>Advances in Experimental Medicine and Biology</i> , 2012, 740, 143-157.	0.8	34
153	GABA Site Agonist Gaboxadol Induces Addiction-Predicting Persistent Changes in Ventral Tegmental Area Dopamine Neurons But Is Not Rewarding in Mice or Baboons. <i>Journal of Neuroscience</i> , 2012, 32, 5310-5320.	1.7	36
154	Use of multi-electrode array recordings in studies of network synaptic plasticity in both time and space. <i>Neuroscience Bulletin</i> , 2012, 28, 409-422.	1.5	41
155	Biological pathways to adaptability – interactions between genome, epigenome, nervous system and environment for adaptive behavior. <i>Genes, Brain and Behavior</i> , 2012, 11, 3-28.	1.1	48
156	Acute Effects of Ethanol on Glutamate Receptors. <i>Basic and Clinical Pharmacology and Toxicology</i> , 2012, 111, 4-13.	1.2	71
157	The new brain: concepts, challenges, and opportunities for mental health nursing. <i>International Journal of Mental Health Nursing</i> , 2012, 21, 96-102.	2.1	2
158	Î23 integrin is dispensable for conditioned fear and Hebbian forms of plasticity in the hippocampus. <i>European Journal of Neuroscience</i> , 2012, 36, 2461-2469.	1.2	25
159	The electrophysiological study of changes in the activities of locus coeruleus neurons under conditions of parathyroidectomy and parathyroid hormone administration. <i>Neurochemical Journal</i> , 2012, 6, 53-63.	0.2	0
160	Synaptic plasticity studies and their applicability in mouse models of neurodegenerative diseases. <i>Translational Neuroscience</i> , 2013, 4, .	0.7	3
161	Neuroplasticity in Depressed Individuals Compared with Healthy Controls. <i>Neuropsychopharmacology</i> , 2013, 38, 2101-2108.	2.8	149
162	From Blickeys to Synapses: Inferring Temporal Causal Networks by Observation. <i>Cognitive Science</i> , 2013, 37, 1426-1470.	0.8	3
163	Long-term potentiation of synaptic transmission in the adult mouse insular cortex: multielectrode array recordings. <i>Journal of Neurophysiology</i> , 2013, 110, 505-521.	0.9	54
164	Remodeling of axo-spinous synapses in the pathophysiology and treatment of depression. <i>Neuroscience</i> , 2013, 251, 33-50.	1.1	134
165	Effects of central and peripheral inflammation on hippocampal synaptic plasticity. <i>Neurobiology of Disease</i> , 2013, 52, 229-236.	2.1	155

#	ARTICLE	IF	CITATIONS
166	<sc>AZD</sc>1080, a novel <sc>GSK</sc>3 inhibitor, rescues synaptic plasticity deficits in rodent brain and exhibits peripheral target engagement in humans. <i>Journal of Neurochemistry</i> , 2013, 125, 446-456.	2.1	87
167	Loss of calcineurin in the spinal dorsal horn contributes to neuropathic pain, and intrathecal administration of the phosphatase provides prolonged analgesia. <i>Pain</i> , 2013, 154, 2024-2033.	2.0	11
168	Impaired motor cortex plasticity in patients with Noonan syndrome. <i>Clinical Neurophysiology</i> , 2013, 124, 2439-2444.	0.7	11
169	Impaired glutamate recycling and GluN2B-mediated neuronal calcium overload in mice lacking TGF β 1 in the CNS. <i>Glia</i> , 2013, 61, 985-1002.	2.5	56
170	Semaphorin7A and its receptors: Pleiotropic regulators of immune cell function, bone homeostasis, and neural development. <i>Seminars in Cell and Developmental Biology</i> , 2013, 24, 129-138.	2.3	38
171	Synthesis and Structure Activity Relationship of Tetrahydroisoquinoline-Based Potentiators of GluN2C and GluN2D Containing <i>N</i> -Methyl- <i>D</i> -aspartate Receptors. <i>Journal of Medicinal Chemistry</i> , 2013, 56, 5351-5381.	2.9	46
172	Calcium dysregulation and neuroinflammation: Discrete and integrated mechanisms for age-related synaptic dysfunction. <i>Ageing Research Reviews</i> , 2013, 12, 982-995.	5.0	91
173	The competitive NMDA receptor antagonist CPP disrupts cocaine-induced conditioned place preference, but spares behavioral sensitization. <i>Behavioural Brain Research</i> , 2013, 239, 155-163.	1.2	23
174	Lipid rafts, synaptic transmission and plasticity: Impact in age-related neurodegenerative diseases. <i>Neuropharmacology</i> , 2013, 64, 97-107.	2.0	102
175	AMPA receptors as a molecular target in epilepsy therapy. <i>Acta Neurologica Scandinavica</i> , 2013, 127, 9-18.	1.0	183
176	Activity-dependent Protein Dynamics Define Interconnected Cores of Co-regulated Postsynaptic Proteins. <i>Molecular and Cellular Proteomics</i> , 2013, 12, 29-41.	2.5	22
177	The Impact of MeCP2 Loss- or Gain-of-Function on Synaptic Plasticity. <i>Neuropsychopharmacology</i> , 2013, 38, 212-219.	2.8	145
178	Differential Contribution of Hippocampal Circuits to Appetitive and Consummatory Behaviors during Operant Conditioning of Behaving Mice. <i>Journal of Neuroscience</i> , 2013, 33, 2293-2304.	1.7	35
179	Mechanisms of human motor cortex facilitation induced by subthreshold 5-Hz repetitive transcranial magnetic stimulation. <i>Journal of Neurophysiology</i> , 2013, 109, 3060-3066.	0.9	8
180	Automated Analysis of a Diverse Synapse Population. <i>PLoS Computational Biology</i> , 2013, 9, e1002976.	1.5	25
181	Effect of oculomotor rehabilitation on vergence responsivity in mild traumatic brain injury. <i>Journal of Rehabilitation Research and Development</i> , 2013, 50, 1223-1240.	1.6	67
182	Don't Judge A Neuron Only by Its Cover: Neuronal Function in In Vitro Developmental Neurotoxicity Testing. <i>Toxicological Sciences</i> , 2013, 132, 1-7.	1.4	35
183	Paradoxical Effect of Gonadotrophin-Inhibiting Hormone to Negatively Regulate Neuropeptide Y Neurones in Mouse Arcuate Nucleus. <i>Journal of Neuroendocrinology</i> , 2013, 25, 1308-1317.	1.2	31

#	ARTICLE	IF	CITATIONS
184	Spiking neural networks based on LIF with latency: Simulation and synchronization effects. , 2013, , .		19
185	A Eukaryotic Specific Transmembrane Segment is Required for Tetramerization in AMPA Receptors. Journal of Neuroscience, 2013, 33, 9840-9845.	1.7	31
187	VIP. , 2013, , 966-974.		2
188	Cortical Presynaptic Control of Dorsal Horn Afferents in the Rat. PLoS ONE, 2013, 8, e69063.	1.1	10
189	Eye Exercises Enhance Accuracy and Letter Recognition, but Not Reaction Time, in a Modified Rapid Serial Visual Presentation Task. PLoS ONE, 2013, 8, e59244.	1.1	16
190	Comparison of Models for IP3 Receptor Kinetics Using Stochastic Simulations. PLoS ONE, 2013, 8, e59618.	1.1	8
191	Integration of Biochemical and Electrical Signaling-Multiscale Model of the Medium Spiny Neuron of the Striatum. PLoS ONE, 2013, 8, e66811.	1.1	22
192	Coping changes the brain. Frontiers in Behavioral Neuroscience, 2013, 7, 13.	1.0	16
193	Long-term fluoxetine treatment induces input-specific LTP and LTD impairment and structural plasticity in the CA1 hippocampal subfield. Frontiers in Cellular Neuroscience, 2013, 7, 66.	1.8	45
194	Lipocalin-2 is involved in emotional behaviors and cognitive function. Frontiers in Cellular Neuroscience, 2013, 7, 122.	1.8	69
195	Application of FRET probes in the analysis of neuronal plasticity. Frontiers in Neural Circuits, 2013, 7, 163.	1.4	25
196	Transcranial alternating current stimulation (tACS). Frontiers in Human Neuroscience, 2013, 7, 317.	1.0	397
197	The Role of Astrocytes in the Regulation of Synaptic Plasticity and Memory Formation. Neural Plasticity, 2013, 2013, 1-11.	1.0	143
198	Combined Therapy of Iron Chelator and Antioxidant Completely Restores Brain Dysfunction Induced by Iron Toxicity. PLoS ONE, 2014, 9, e85115.	1.1	84
199	Altered Synaptic Plasticity in Tourette's Syndrome and Its Relationship to Motor Skill Learning. PLoS ONE, 2014, 9, e98417.	1.1	37
200	Involvement of the GABAergic Septo-Hippocampal Pathway in Brain Stimulation Reward. PLoS ONE, 2014, 9, e113787.	1.1	13
201	Cellular mechanisms of the 5-HT ₇ receptor-mediated signaling. Frontiers in Behavioral Neuroscience, 2014, 8, 306.	1.0	67
202	Elongation factor-2 phosphorylation in dendrites and the regulation of dendritic mRNA translation in neurons. Frontiers in Cellular Neuroscience, 2014, 8, 35.	1.8	84

#	ARTICLE	IF	CITATIONS
203	The role of alpha-rhythm states in perceptual learning: insights from experiments and computational models. <i>Frontiers in Computational Neuroscience</i> , 2014, 8, 36.	1.2	56
204	mTOR signaling contributes to motor skill learning in mice. <i>Frontiers in Molecular Neuroscience</i> , 2014, 7, 26.	1.4	29
205	Distinct molecular components for thalamic- and cortical-dependent plasticity in the lateral amygdala. <i>Frontiers in Molecular Neuroscience</i> , 2014, 7, 62.	1.4	11
207	A convergent neurological and psychoanalytic view of the concept of regression and mental structure in a case of NMDA receptor encephalitis. <i>Neuropsychoanalysis</i> , 2014, 16, 97-113.	0.1	0
208	The Molecular Mechanisms Underlying Synaptic Transmission. , 2014, , 21-109.		6
209	Potassium 2-(1-hydroxypropyl)-benzoate promotes long-term potentiation in A β 1-42-injected rats and APP/PS1 transgenic mice. <i>Acta Pharmacologica Sinica</i> , 2014, 35, 869-878.	2.8	15
210	Computational identification of potential multitarget treatments for ameliorating the adverse effects of amyloid- β on synaptic plasticity. <i>Frontiers in Pharmacology</i> , 2014, 5, 85.	1.6	17
211	It κ is MORE exciting than mu: crosstalk between mu opioid receptors and glutamatergic transmission in the mesolimbic dopamine system. <i>Frontiers in Pharmacology</i> , 2014, 5, 116.	1.6	109
212	A Synaptic Function Approach to Investigating Complex Psychiatric Diseases. <i>Neuroscientist</i> , 2014, 20, 257-271.	2.6	22
213	Aerobic Exercise as an Adjunct Therapy for Improving Cognitive Function in Heart Failure. <i>Cardiology Research and Practice</i> , 2014, 2014, 1-8.	0.5	10
214	Time-sensitive reorganization of the somatosensory cortex poststroke depends on interaction between Hebbian and homeoplasticity: a simulation study. <i>Journal of Neurophysiology</i> , 2014, 112, 3240-3250.	0.9	8
215	Error correction and fast detectors implemented by ultrafast neuronal plasticity. <i>Physical Review E</i> , 2014, 89, 042712.	0.8	4
216	Mechanisms of Synaptic Plasticity and Recognition Memory in the Perirhinal Cortex. <i>Progress in Molecular Biology and Translational Science</i> , 2014, 122, 193-209.	0.9	28
217	Dysbindin-1 loss compromises NMDAR-dependent synaptic plasticity and contextual fear conditioning. <i>Hippocampus</i> , 2014, 24, 204-213.	0.9	28
218	Trauma-informed care in inpatient mental health settings: A review of the literature. <i>International Journal of Mental Health Nursing</i> , 2014, 23, 51-59.	2.1	299
219	Maternal and postweaning high-fat diets disturb hippocampal gene expression, learning, and memory function. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2014, 306, R527-R537.	0.9	90
220	Pathology of synapses in neurological diseases. <i>Biology Bulletin Reviews</i> , 2014, 4, 515-526.	0.3	2
221	AHaH computing with thermodynamic RAM: bridging the technology stack. , 2014, , .		0

#	ARTICLE	IF	CITATIONS
222	Postmortem Brain: An Underutilized Substrate for Studying Severe Mental Illness. <i>Neuropsychopharmacology</i> , 2014, 39, 65-87.	2.8	96
223	Single Neuron Modeling. <i>Lecture Notes on Mathematical Modelling in the Life Sciences</i> , 2014, , 3-62.	0.1	0
224	Changes in memory and synaptic plasticity induced in male rats after maternal exposure to bisphenol A. <i>Toxicology</i> , 2014, 322, 51-60.	2.0	56
225	Computational modeling of neural plasticity for self-organization of neural networks. <i>BioSystems</i> , 2014, 125, 43-54.	0.9	25
226	Reinforcement learning and dopamine in the striatum: A modeling perspective. <i>Neurocomputing</i> , 2014, 138, 27-40.	3.5	4
227	Time-dependent decreases in nucleus accumbens AMPA/NMDA ratio and incubation of sucrose craving in adolescent and adult rats. <i>Psychopharmacology</i> , 2014, 231, 1675-1684.	1.5	52
228	A new semisynthetic derivative of sauroine induces <scp>LTP</scp> in hippocampal slices and improves learning performance in the Morris Water Maze. <i>Journal of Neurochemistry</i> , 2014, 129, 864-876.	2.1	3
229	Calcium regulation of neural rhythms, memory and Alzheimer's disease. <i>Journal of Physiology</i> , 2014, 592, 281-293.	1.3	154
230	NMDA receptor activation and PKC but not PKA lead to the modification of the long-term potentiation in the insular cortex induced by conditioned taste aversion: Differential role of kinases in metaplasticity. <i>Behavioural Brain Research</i> , 2014, 266, 58-62.	1.2	24
232	Preclinical research on pain comorbidity with affective disorders and cognitive deficits: Challenges and perspectives. <i>Progress in Neurobiology</i> , 2014, 116, 13-32.	2.8	83
233	Wave Propagation Along Spiny Dendrites. <i>Lecture Notes on Mathematical Modelling in the Life Sciences</i> , 2014, , 101-136.	0.1	0
234	Waves in Neural Media. <i>Lecture Notes on Mathematical Modelling in the Life Sciences</i> , 2014, , .	0.1	64
235	<i>In vivo</i> Activation of <i>Wnt</i> Signaling Pathway Enhances Cognitive Function of Adult Mice and Reverses Cognitive Deficits in an Alzheimer's Disease Model. <i>Journal of Neuroscience</i> , 2014, 34, 2191-2202.	1.7	125
236	Kainate Receptors. <i>Neuroscientist</i> , 2014, 20, 29-43.	2.6	36
237	Bidirectional Plasticity of Purkinje Cells Matches Temporal Features of Learning. <i>Journal of Neuroscience</i> , 2014, 34, 1731-1737.	1.7	50
238	YAC128 Huntington ^{x3s} disease transgenic mice show enhanced short-term hippocampal synaptic plasticity early in the course of the disease. <i>Brain Research</i> , 2014, 1581, 117-128.	1.1	19
239	Effect of chronic stress on short and long-term plasticity in dentate gyrus; Study of recovery and adaptation. <i>Neuroscience</i> , 2014, 280, 121-129.	1.1	26
240	Impact of combined prenatal ethanol and prenatal stress exposures on markers of activity-dependent synaptic plasticity in rat dentate gyrus. <i>Alcohol</i> , 2014, 48, 523-532.	0.8	10

#	ARTICLE	IF	CITATIONS
241	Endogenous ACh suppresses LTD induction and nicotine relieves the suppression via different nicotinic ACh receptor subtypes in the mouse hippocampus. <i>Life Sciences</i> , 2014, 111, 62-68.	2.0	9
242	Functional characterization of G-protein-coupled receptors: A bioinformatics approach. <i>Neuroscience</i> , 2014, 277, 764-779.	1.1	26
243	The synapse in schizophrenia. <i>European Journal of Neuroscience</i> , 2014, 39, 1059-1067.	1.2	53
244	Omega-3 polyunsaturated fatty acids and chronic stress-induced modulations of glutamatergic neurotransmission in the hippocampus. <i>Nutrition Reviews</i> , 2014, 72, 99-112.	2.6	32
245	Adenosine A2A Receptors as novel upstream regulators of BDNF-mediated attenuation of hippocampal Long-Term Depression (LTD). <i>Neuropharmacology</i> , 2014, 79, 389-398.	2.0	23
246	Systems biology of synaptic plasticity: A review on N-methyl-d-aspartate receptor mediated biochemical pathways and related mathematical models. <i>BioSystems</i> , 2014, 122, 7-18.	0.9	18
247	Mechanical coupling maintains the fidelity of NMDA receptor-mediated currents. <i>Nature Neuroscience</i> , 2014, 17, 914-922.	7.1	96
248	Optimising rehabilitation potential after stroke: a 24-hour interdisciplinary approach. <i>British Journal of Neuroscience Nursing</i> , 2014, 10, 268-273.	0.1	8
249	Frequency-dependent facilitation of synaptic throughput via postsynaptic NMDA receptors in the nucleus of the solitary tract. <i>Journal of Physiology</i> , 2015, 593, 111-125.	1.3	21
250	The Chemokine MIP-1 α /CCL3 impairs mouse hippocampal synaptic transmission, plasticity and memory. <i>Scientific Reports</i> , 2015, 5, 15862.	1.6	100
251	Self-assembly and plasticity of synaptic domains through a reaction-diffusion mechanism. <i>Physical Review E</i> , 2015, 92, 032705.	0.8	19
252	Optogenetic versus electrical stimulation of dopamine terminals in the nucleus accumbens reveals local modulation of presynaptic release. <i>Journal of Neurochemistry</i> , 2015, 134, 833-844.	2.1	56
253	Valproic Acid Modifies Synaptic Structure and Accelerates Neurite Outgrowth Via the Glycogen Synthase Kinase- β Signaling Pathway in an Alzheimer's Disease Model. <i>CNS Neuroscience and Therapeutics</i> , 2015, 21, 887-897.	1.9	39
254	Calcitonin gene-related peptide erases the fear memory and facilitates long-term potentiation in the central nucleus of the amygdala in rats. <i>Journal of Neurochemistry</i> , 2015, 135, 787-798.	2.1	18
255	Specific Roles of NMDA Receptor Subunits in Mental Disorders. <i>Current Molecular Medicine</i> , 2015, 15, 193-205.	0.6	34
256	Chondroitin Sulfate Induces Depression of Synaptic Transmission and Modulation of Neuronal Plasticity in Rat Hippocampal Slices. <i>Neural Plasticity</i> , 2015, 2015, 1-12.	1.0	7
257	The dependence of neuronal encoding efficiency on Hebbian plasticity and homeostatic regulation of neurotransmitter release. <i>Frontiers in Cellular Neuroscience</i> , 2015, 9, 164.	1.8	4
258	Effects of alternating current stimulation on the healthy and diseased brain. <i>Frontiers in Neuroscience</i> , 2015, 9, 391.	1.4	34

#	ARTICLE	IF	CITATIONS
259	Visual system plasticity in mammals: the story of monocular enucleation-induced vision loss. <i>Frontiers in Systems Neuroscience</i> , 2015, 9, 60.	1.2	29
260	Synaptic Plasticity and Neurological Disorders in Neurotropic Viral Infections. <i>Neural Plasticity</i> , 2015, 2015, 1-14.	1.0	15
261	Pathogenicity of Lupus Anti-â€œRibosomal P Antibodies: Role of Cross-â€œReacting Neuronal Surface P Antigen in Glutamatergic Transmission and Plasticity in a Mouse Model. <i>Arthritis and Rheumatology</i> , 2015, 67, 1598-1610.	2.9	62
262	The role of Î±-amino-3-hydroxy-5-methyl-4-isoxazolepropionic acid (AMPA) receptors in depression: Central mediators of pathophysiology and antidepressant activity?. <i>Neuroscience and Biobehavioral Reviews</i> , 2015, 52, 193-206.	2.9	77
263	Ovariectomy does not exacerbate the negative effects of sleep deprivation on synaptic plasticity in rats. <i>Physiology and Behavior</i> , 2015, 144, 73-81.	1.0	11
264	The roles of sensitization and neuroplasticity in the long-term regulation of blood pressure and hypertension. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2015, 309, R1309-R1325.	0.9	48
265	Functional and Physical Interaction of Diacylglycerol Kinase Î¶ with Protein Kinase CÎ± Is Required for Cerebellar Long-Term Depression. <i>Journal of Neuroscience</i> , 2015, 35, 15453-15465.	1.7	15
266	High on food: the interaction between the neural circuits for feeding and for reward. <i>Frontiers in Biology</i> , 2015, 10, 165-176.	0.7	11
267	Synaptic plasticity and experimental autoimmune encephalomyelitis: implications for multiple sclerosis. <i>Brain Research</i> , 2015, 1621, 205-213.	1.1	30
268	Sleep Slow Wave-Related Homo and Heterosynaptic LTD of Intrathalamic GABA _A ergic Synapses: Involvement of T-Type Ca ²⁺ Channels and Metabotropic Glutamate Receptors. <i>Journal of Neuroscience</i> , 2015, 35, 64-73.	1.7	26
269	Synaptic clustering within dendrites: An emerging theory of memory formation. <i>Progress in Neurobiology</i> , 2015, 126, 19-35.	2.8	149
270	Src kinase as a mediator of convergent molecular abnormalities leading to NMDAR hypoactivity in schizophrenia. <i>Molecular Psychiatry</i> , 2015, 20, 1091-1100.	4.1	56
271	Cannabinoid CB1 Receptor Calibrates Excitatory Synaptic Balance in the Mouse Hippocampus. <i>Journal of Neuroscience</i> , 2015, 35, 3842-3850.	1.7	71
272	MicroRNA-137 Controls AMPA-Receptor-Mediated Transmission and mGluR-Dependent LTD. <i>Cell Reports</i> , 2015, 11, 1876-1884.	2.9	82
273	Atypical PKCs in memory maintenance: the roles of feedback and redundancy. <i>Learning and Memory</i> , 2015, 22, 344-353.	0.5	42
274	Synaptic plasticity in the auditory system: a review. <i>Cell and Tissue Research</i> , 2015, 361, 177-213.	1.5	43
275	Translational psychiatryâ€œlight at the end of the tunnel. <i>Annals of the New York Academy of Sciences</i> , 2015, 1344, 1-11.	1.8	11
276	Phthalates and neurotoxic effects on hippocampal network plasticity. <i>NeuroToxicology</i> , 2015, 48, 21-34.	1.4	60

#	ARTICLE	IF	CITATIONS
277	New insights into Alzheimer's disease pathogenesis: the involvement of neuroligins in synaptic malfunction. <i>Neurodegenerative Disease Management</i> , 2015, 5, 137-145.	1.2	17
278	BAl1 regulates spatial learning and synaptic plasticity in the hippocampus. <i>Journal of Clinical Investigation</i> , 2015, 125, 1497-1508.	3.9	71
279	Ellagic acid prevents cognitive and hippocampal long-term potentiation deficits and brain inflammation in rat with traumatic brain injury. <i>Life Sciences</i> , 2015, 124, 120-127.	2.0	77
280	Inducible and combinatorial gene manipulation in mouse brain. <i>Frontiers in Cellular Neuroscience</i> , 2015, 9, 142.	1.8	13
281	Genetic deletion of melanin-concentrating hormone neurons impairs hippocampal short-term synaptic plasticity and hippocampal-dependent forms of short-term memory. <i>Hippocampus</i> , 2015, 25, 1361-1373.	0.9	20
282	Alzheimer's Disease and Mechanism-Based Attempts to Enhance Cognition. , 2015, , 193-231.		0
283	The neuromediator mechanisms of the cognitive deficit in schizophrenia. <i>Neurochemical Journal</i> , 2015, 9, 186-200.	0.2	2
284	Neonatal vaccination with bacillus Calmette-Guérin and hepatitis B vaccines modulates hippocampal synaptic plasticity in rats. <i>Journal of Neuroimmunology</i> , 2015, 288, 1-12.	1.1	22
285	Reversal of aging-related emotional memory deficits by norepinephrine via regulating the stability of surface AMPA receptors. <i>Aging Cell</i> , 2015, 14, 170-179.	3.0	36
286	Function and toxicity of amyloid beta and recent therapeutic interventions targeting amyloid beta in Alzheimer's disease. <i>Chemical Communications</i> , 2015, 51, 13434-13450.	2.2	191
287	A New Class of Potent N-Methyl-D-Aspartate Receptor Inhibitors: Sulfated Neuroactive Steroids with Lipophilic D-Ring Modifications. <i>Journal of Medicinal Chemistry</i> , 2015, 58, 5950-5966.	2.9	26
288	The Renaissance Extended Mind. , 2015, , .		29
289	Effect of castration on the susceptibility of male rats to the sleep deprivation-induced impairment of behavioral and synaptic plasticity. <i>Neurobiology of Learning and Memory</i> , 2015, 123, 140-148.	1.0	35
290	Alterations in synaptic plasticity coincide with deficits in spatial working memory in presymptomatic 3xTg-AD mice. <i>Neurobiology of Learning and Memory</i> , 2015, 125, 152-162.	1.0	67
291	Augmenting NMDA receptor signaling boosts experience-dependent neuroplasticity in the adult human brain. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 15331-15336.	3.3	59
292	Rescue of impaired late-phase long-term depression in a tau transgenic mouse model. <i>Neurobiology of Aging</i> , 2015, 36, 730-739.	1.5	37
293	Differential contributions of microglial and neuronal IKK β to synaptic plasticity and associative learning in alert behaving mice. <i>Glia</i> , 2015, 63, 549-566.	2.5	21
294	WASP-1, a canonical Wnt signaling potentiator, rescues hippocampal synaptic impairments induced by A β oligomers. <i>Experimental Neurology</i> , 2015, 264, 14-25.	2.0	29

#	ARTICLE	IF	CITATIONS
295	Presynaptic Ca ²⁺ -permeable AMPA-receptors modulate paired-pulse depression in nociceptive sensory synapses. <i>Neuroscience Letters</i> , 2015, 585, 1-5.	1.0	4
296	Modelling the dynamics of CaMKIIâ€™NMDAR complex related to memory formation in synapses: The possible roles of threonine 286 autophosphorylation of CaMKII in long term potentiation. <i>Journal of Theoretical Biology</i> , 2015, 365, 403-419.	0.8	13
297	Using c-fos to study neuronal ensembles in corticostriatal circuitry of addiction. <i>Brain Research</i> , 2015, 1628, 157-173.	1.1	128
298	Distinct and simultaneously active plasticity mechanisms in mouse hippocampus during different phases of Morris water maze training. <i>Brain Structure and Function</i> , 2015, 220, 1273-1290.	1.2	20
299	Differential impact of chronic stress along the hippocampal dorsalâ€™ventral axis. <i>Brain Structure and Function</i> , 2015, 220, 1205-1212.	1.2	66
300	Regulation of emotional memory by hydrogen sulfide: role of GluN2Bâ€™containing <sc>NMDA</sc> receptor in the amygdala. <i>Journal of Neurochemistry</i> , 2015, 132, 124-134.	2.1	21
301	Ketamine and Rapid-Acting Antidepressants: A Window into a New Neurobiology for Mood Disorder Therapeutics. <i>Annual Review of Medicine</i> , 2015, 66, 509-523.	5.0	316
302	Neuropathology of Depression in Alzheimer's Disease: Current Knowledge and the Potential for New Treatments. <i>Journal of Alzheimer's Disease</i> , 2015, 44, 27-41.	1.2	47
303	The promotion of recovery through rehabilitation after acquired brain injury in children. <i>Developmental Medicine and Child Neurology</i> , 2015, 57, 16-22.	1.1	23
304	Imaging-Based Neurochemistry in Schizophrenia: A Systematic Review and Implications for Dysfunctional Long-Term Potentiation. <i>Schizophrenia Bulletin</i> , 2015, 41, 44-56.	2.3	69
305	Synaptic receptor dynamics: From theoretical concepts to deep quantification and chemistry in cellulo. <i>Neuropharmacology</i> , 2015, 88, 2-9.	2.0	19
306	The Upregulation of NR2A-Containing N-Methyl-d-Aspartate Receptor Function by Tyrosine Phosphorylation of Postsynaptic Density 95 Via Facilitating Src/Proline-Rich Tyrosine Kinase 2 Activation. <i>Molecular Neurobiology</i> , 2015, 51, 500-511.	1.9	23
307	Redox Homeostasis in Neural Plasticity and the Aged Brain. , 0, , .		0
308	Highâ€™and lowâ€™conductance NMDA receptors are present in layer 4 spiny stellate and layer 2/3 pyramidal neurons of mouse barrel cortex. <i>Physiological Reports</i> , 2016, 4, e13051.	0.7	6
309	Stochastic single-molecule dynamics of synaptic membrane protein domains. <i>Europhysics Letters</i> , 2016, 115, 68006.	0.7	4
310	Metabotropic glutamate receptor dependent long-term depression in the cortex. <i>Korean Journal of Physiology and Pharmacology</i> , 2016, 20, 557.	0.6	6
311	Emerging Link between Alzheimerâ€™s Disease and Homeostatic Synaptic Plasticity. <i>Neural Plasticity</i> , 2016, 2016, 1-19.	1.0	67
312	The Current Status of Somatostatin-Interneurons in Inhibitory Control of Brain Function and Plasticity. <i>Neural Plasticity</i> , 2016, 2016, 1-20.	1.0	53

#	ARTICLE	IF	CITATIONS
313	Occlusion and Adaptation to Change. , 2016, , 43-53.		5
314	Diacylglycerol Kinases in the Coordination of Synaptic Plasticity. <i>Frontiers in Cell and Developmental Biology</i> , 2016, 4, 92.	1.8	23
315	Separate Ionotropic and Metabotropic Glutamate Receptor Functions in Depotential vs. LTP: A Distinct Role for Group1 mGluR Subtypes and NMDARs. <i>Frontiers in Cellular Neuroscience</i> , 2016, 10, 252.	1.8	14
316	Transcranial Alternating Current Stimulation: A Potential Risk for Genetic Generalized Epilepsy Patients (Study Case). <i>Frontiers in Neurology</i> , 2016, 7, 213.	1.1	6
317	Alcoholâ€‘Mediated Resistanceâ€‘Switching Behavior in Metalâ€‘Organic Frameworkâ€‘Based Electronic Devices. <i>Angewandte Chemie</i> , 2016, 128, 9030-9034.	1.6	19
318	<scp>EPO</scp> induces changes in synaptic transmission and plasticity in the dentate gyrus of rats. <i>Synapse</i> , 2016, 70, 240-252.	0.6	18
319	Alcoholâ€‘Mediated Resistanceâ€‘Switching Behavior in Metalâ€‘Organic Frameworkâ€‘Based Electronic Devices. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 8884-8888.	7.2	72
320	KETAMINE'S MECHANISM OF ACTION: A PATH TO RAPIDâ€‘ACTING ANTIDEPRESSANTS. <i>Depression and Anxiety</i> , 2016, 33, 689-697.	2.0	150
321	Parvalbumin- and vasoactive intestinal polypeptide-expressing neocortical interneurons impose differential inhibition on Martinotti cells. <i>Nature Communications</i> , 2016, 7, 13664.	5.8	65
322	Brain-specific Crmp2 deletion leads to neuronal development deficits and behavioural impairments in mice. <i>Nature Communications</i> , 2016, 7, .	5.8	84
323	Acid-sensing ion channel 1a contributes to hippocampal LTP inducibility through multiple mechanisms. <i>Scientific Reports</i> , 2016, 6, 23350.	1.6	41
324	Auditory cortical field coding long-lasting tonal offsets in mice. <i>Scientific Reports</i> , 2016, 6, 34421.	1.6	27
325	Influence of extrinsic inputs and synaptic gains on dynamics of Wendlingâ€™s neural mass model: A bifurcation analysis. <i>Journal of Integrative Neuroscience</i> , 2016, 15, 463-483.	0.8	8
326	Electrophysiological Endophenotypes for Schizophrenia. <i>Harvard Review of Psychiatry</i> , 2016, 24, 129-147.	0.9	37
327	Modelling bidirectional modulations in synaptic plasticity: A biochemical pathway model to understand the emergence of long term potentiation (LTP) and long term depression (LTD). <i>Journal of Theoretical Biology</i> , 2016, 403, 159-177.	0.8	14
328	Brain aerobic glycolysis and motor adaptation learning. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E3782-91.	3.3	62
329	Calcium, Reactive Oxygen Species, and Synaptic Plasticity. <i>Physiology</i> , 2016, 31, 201-215.	1.6	55
330	Advancing the understanding of autism disease mechanisms through genetics. <i>Nature Medicine</i> , 2016, 22, 345-361.	15.2	684

#	ARTICLE	IF	CITATIONS
331	Differential proteome and phosphoproteome may impact cell signaling in the corpus callosum of schizophrenia patients. <i>Schizophrenia Research</i> , 2016, 177, 70-77.	1.1	22
332	Neurosteroid-like Inhibitors of <i>N</i> -Methyl-D-aspartate Receptor: Substituted 2-Sulfates and 2-Hemisuccinates of Perhydrophenanthrene. <i>Journal of Medicinal Chemistry</i> , 2016, 59, 4724-4739.	2.9	12
333	Crossbar Nanoscale HfO ₂ -Based Electronic Synapses. <i>Nanoscale Research Letters</i> , 2016, 11, 147.	3.1	43
334	Basic roles of key molecules connected with NMDAR signaling pathway on regulating learning and memory and synaptic plasticity. <i>Military Medical Research</i> , 2016, 3, 26.	1.9	69
335	Impaired synaptic plasticity in RASopathies: a mini-review. <i>Journal of Neural Transmission</i> , 2016, 123, 1133-1138.	1.4	14
336	Gender difference in valproic acid-induced neuroprotective effects on APP/PS1 double transgenic mice modeling Alzheimer's disease. <i>Acta Biochimica Et Biophysica Sinica</i> , 2016, 48, 930-938.	0.9	19
337	Interactive effects of AM251 and baclofen on synaptic plasticity in the rat dentate gyrus. <i>Brain Research</i> , 2016, 1651, 53-60.	1.1	15
338	Identification of Stable Spike-Timing-Dependent Plasticity from Spiking Activity with Generalized Multilinear Modeling. <i>Neural Computation</i> , 2016, 28, 2320-2351.	1.3	13
339	Phase Dependency of the Human Primary Motor Cortex and Cholinergic Inhibition Cancellation During Beta tACS. <i>Cerebral Cortex</i> , 2016, 26, 3977-3990.	1.6	104
340	Target Engagement with Transcranial Current Stimulation. , 2016, , 197-222.		1
341	miRNAs in NMDA receptor-dependent synaptic plasticity and psychiatric disorders. <i>Clinical Science</i> , 2016, 130, 1137-1146.	1.8	11
342	Synaptopathies: synaptic dysfunction in neurological disorders – A review from students to students. <i>Journal of Neurochemistry</i> , 2016, 138, 785-805.	2.1	244
343	Potential of Surface Stability of AMPA Receptors by Sulfhydryl Compounds: A Redox-Independent Effect by Disrupting Palmitoylation. <i>Neurochemical Research</i> , 2016, 41, 2890-2903.	1.6	4
345	Synaptic scaling rule preserves excitatory-inhibitory balance and salient neuronal network dynamics. <i>Nature Neuroscience</i> , 2016, 19, 1690-1696.	7.1	133
346	Activity-Regulated Cytoskeleton-Associated Protein Dysfunction May Contribute to Memory Disorder and Earlier Detection of Autism Spectrum Disorders. <i>Medical Principles and Practice</i> , 2016, 25, 350-354.	1.1	12
347	THE NEUROSCIENCE OF WESLEYAN SOTERIOLOGY: THE DYNAMIC OF BOTH INSTANTANEOUS AND GRADUAL CHANGE. <i>Zygon</i> , 2016, 51, 347-360.	0.2	2
348	Maternal inflammation leads to impaired glutamate homeostasis and up-regulation of glutamate carboxypeptidase II in activated microglia in the fetal/newborn rabbit brain. <i>Neurobiology of Disease</i> , 2016, 94, 116-128.	2.1	59
349	HFS-triggered AMPK Activation Phosphorylates GSK-3 β and Induces LTP in Rat Hippocampus <i>In Vivo</i> . <i>CNS Neuroscience and Therapeutics</i> , 2016, 22, 525-531.	1.9	16

#	ARTICLE	IF	CITATIONS
350	Inside story of Group I Metabotropic Glutamate Receptors (mGluRs). <i>International Journal of Biochemistry and Cell Biology</i> , 2016, 77, 205-212.	1.2	32
351	AMPA Receptor Plasticity in Retrieval, Reconsolidation and Post-retrieval Extinction of Memories. , 2016, , 21-41.		3
352	High frequency repetitive sensory stimulation improves temporal discrimination in healthy subjects. <i>Clinical Neurophysiology</i> , 2016, 127, 817-820.	0.7	21
353	Effects of pre-natal alcohol exposure on hippocampal synaptic plasticity: Sex, age and methodological considerations. <i>Neuroscience and Biobehavioral Reviews</i> , 2016, 64, 12-34.	2.9	66
354	Drugs related to monoamine oxidase activity. <i>Progress in Neuro-Psychopharmacology and Biological Psychiatry</i> , 2016, 69, 112-124.	2.5	60
355	Cellular and System Biology of Memory: Timing, Molecules, and Beyond. <i>Physiological Reviews</i> , 2016, 96, 647-693.	13.1	96
356	NMDA antagonist treatment of depression. <i>Current Opinion in Neurobiology</i> , 2016, 36, 112-117.	2.0	55
357	A critical role for VEGF and VEGFR2 in NMDA receptor synaptic function and fear-related behavior. <i>Molecular Psychiatry</i> , 2016, 21, 1768-1780.	4.1	68
358	Absence of IFN γ promotes hippocampal plasticity and enhances cognitive performance. <i>Translational Psychiatry</i> , 2016, 6, e707-e707.	2.4	79
359	TRPM4-dependent post-synaptic depolarization is essential for the induction of NMDA receptor-dependent LTP in CA1 hippocampal neurons. <i>Pflügers Archiv European Journal of Physiology</i> , 2016, 468, 593-607.	1.3	38
360	Effects of the spike timing-dependent plasticity on the synchronisation in a random Hodgkinâ€“Huxley neuronal network. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2016, 34, 12-22.	1.7	42
361	Mapping entrained brain oscillations during transcranial alternating current stimulation (tACS). <i>NeuroImage</i> , 2016, 140, 89-98.	2.1	144
362	Glutamatergic plasticity and alcohol dependence-induced alterations in reward, affect and cognition. <i>Progress in Neuro-Psychopharmacology and Biological Psychiatry</i> , 2016, 65, 309-320.	2.5	43
363	Chronic Enhancement of Serotonin Facilitates Excitatory Transcranial Direct Current Stimulation-Induced Neuroplasticity. <i>Neuropsychopharmacology</i> , 2016, 41, 1223-1230.	2.8	64
364	State-Dependent Partial Occlusion of Cortical LTP-Like Plasticity in Major Depression. <i>Neuropsychopharmacology</i> , 2016, 41, 1521-1529.	2.8	49
365	Cognitive Development, Learning and Drug Use. , 2016, , 13-21.		0
366	Astrocytes: Orchestrating synaptic plasticity?. <i>Neuroscience</i> , 2016, 323, 43-61.	1.1	196
367	How serotonin receptors regulate morphogenic signalling in neurons. <i>Progress in Neurobiology</i> , 2017, 151, 35-56.	2.8	86

#	ARTICLE	IF	CITATIONS
368	Rapamycin Effectively Impedes Melamine-Induced Impairments of Cognition and Synaptic Plasticity in Wistar Rats. <i>Molecular Neurobiology</i> , 2017, 54, 819-832.	1.9	35
369	The Plasminogen Activation System Promotes Dendritic Spine Recovery and Improvement in Neurological Function After an Ischemic Stroke. <i>Translational Stroke Research</i> , 2017, 8, 47-56.	2.3	12
370	Impact of Synaptic Localization and Subunit Composition of Ionotropic Glutamate Receptors on Synaptic Function: Modeling and Simulation Studies. <i>IEEE/ACM Transactions on Computational Biology and Bioinformatics</i> , 2017, 14, 892-904.	1.9	3
371	Translation of BDNF-gene transcripts with short 3' UTR in hippocampal CA1 neurons improves memory formation and enhances synaptic plasticity-relevant signaling pathways. <i>Neurobiology of Learning and Memory</i> , 2017, 138, 121-134.	1.0	23
372	Acetylated tau in Alzheimer's disease: An instigator of synaptic dysfunction underlying memory loss. <i>BioEssays</i> , 2017, 39, 1600224.	1.2	47
373	Distributions of therapeutically promising neurosteroids in cellular membranes. <i>Chemistry and Physics of Lipids</i> , 2017, 203, 78-86.	1.5	3
374	Effects of cerebellar transcranial alternating current stimulation on motor cortex excitability and motor function. <i>Brain Structure and Function</i> , 2017, 222, 2891-2906.	1.2	59
375	Deficits in Social Cognition: An Unveiled Signature of Multiple Sclerosis. <i>Journal of the International Neuropsychological Society</i> , 2017, 23, 266-286.	1.2	57
376	Mapping the critical gestational age at birth that alters brain development in preterm-born infants using multi-modal MRI. <i>NeuroImage</i> , 2017, 149, 33-43.	2.1	23
377	How do antidepressants work? New perspectives for refining future treatment approaches. <i>Lancet Psychiatry</i> , 2017, 4, 409-418.	3.7	392
378	Gating Motions and Stationary Gating Properties of Ionotropic Glutamate Receptors: Computation Meets Electrophysiology. <i>Accounts of Chemical Research</i> , 2017, 50, 814-822.	7.6	4
379	Global sensitivity analysis of a model related to memory formation in synapses: Model reduction based on epistemic parameter uncertainties and related issues. <i>Journal of Theoretical Biology</i> , 2017, 419, 116-136.	0.8	2
380	Modulation of azimuth tuning plasticity in rat primary auditory cortex by medial prefrontal cortex. <i>Neuroscience</i> , 2017, 347, 36-47.	1.1	13
381	Sleep-Related Interventions to Improve Psychotherapy. <i>Studies in Neuroscience, Psychology and Behavioral Economics</i> , 2017, , 381-400.	0.1	3
382	How neuroscience can inform the study of individual differences in cognitive abilities. <i>Reviews in the Neurosciences</i> , 2017, 28, 343-362.	1.4	13
383	Developmental control of spike-timing-dependent plasticity by tonic GABAergic signaling in striatum. <i>Neuropharmacology</i> , 2017, 121, 261-277.	2.0	19
384	Machine Learning and the Questions It Raises. , 0, , 468-486.		0
385	Assembly of Excitatory Synapses in the Absence of Glutamatergic Neurotransmission. <i>Neuron</i> , 2017, 94, 312-321.e3.	3.8	104

#	ARTICLE	IF	CITATIONS
386	Chronic nicotine attenuates behavioral and synaptic plasticity impairments in a streptozotocin model of Alzheimer's disease. <i>Neuroscience</i> , 2017, 353, 87-97.	1.1	24
387	The effects of aging in the hippocampus and cognitive decline. <i>Neuroscience and Biobehavioral Reviews</i> , 2017, 79, 66-86.	2.9	385
388	Prioritizing Information during Working Memory: Beyond Sustained Internal Attention. <i>Trends in Cognitive Sciences</i> , 2017, 21, 449-461.	4.0	275
389	Amorphous InGaZnO ₄ Neuron Transistors with Temporal and Spatial Summation Function. <i>Chinese Physics Letters</i> , 2017, 34, 058502.	1.3	6
390	Revisiting the flip side: Long-term depression of synaptic efficacy in the hippocampus. <i>Neuroscience and Biobehavioral Reviews</i> , 2017, 80, 394-413.	2.9	47
391	Online Meta-neuron based Learning Algorithm for a spiking neural classifier. <i>Information Sciences</i> , 2017, 414, 19-32.	4.0	11
392	Synaptic Plasticity, Engrams, and Network Oscillations in Amygdala Circuits for Storage and Retrieval of Emotional Memories. <i>Neuron</i> , 2017, 94, 731-743.	3.8	201
393	The malleable brain: plasticity of neural circuits and behavior – a review from students to students. <i>Journal of Neurochemistry</i> , 2017, 142, 790-811.	2.1	34
394	Prenatal melamine exposure induces impairments of spatial cognition and hippocampal synaptic plasticity in female adolescent rats. <i>NeuroToxicology</i> , 2017, 62, 56-63.	1.4	16
395	Glutamate Transport: A New Bench to Bedside Mechanism for Treating Drug Abuse. <i>International Journal of Neuropsychopharmacology</i> , 2017, 20, 797-812.	1.0	52
396	Serotonin and neuroplasticity – Links between molecular, functional and structural pathophysiology in depression. <i>Neuroscience and Biobehavioral Reviews</i> , 2017, 77, 317-326.	2.9	296
397	Mechanisms of long-term plasticity of hippocampal GABAergic synapses. <i>Biochemistry (Moscow)</i> , 2017, 82, 257-263.	0.7	33
398	Effects of Augmenting N-Methyl-D-Aspartate Receptor Signaling on Working Memory and Experience-Dependent Plasticity in Schizophrenia: An Exploratory Study Using Acute d-cycloserine. <i>Schizophrenia Bulletin</i> , 2017, 43, 1123-1133.	2.3	26
399	Presynaptic and extrasynaptic regulation of posterior nucleus of thalamus. <i>Journal of Neurophysiology</i> , 2017, 118, 507-519.	0.9	7
400	Cystathionine- β -synthase-derived hydrogen sulfide is required for amygdalar long-term potentiation and cued fear memory in rats. <i>Pharmacology Biochemistry and Behavior</i> , 2017, 155, 16-23.	1.3	23
401	Modulating effect of cytokines on mechanisms of synaptic plasticity in the brain. <i>Biochemistry (Moscow)</i> , 2017, 82, 264-274.	0.7	84
402	Targeting glutamate signalling in depression: progress and prospects. <i>Nature Reviews Drug Discovery</i> , 2017, 16, 472-486.	21.5	345
403	A Critical Role for Ubiquitination in the Endocytosis of Glutamate Receptors. <i>Journal of Biological Chemistry</i> , 2017, 292, 1426-1437.	1.6	23

#	ARTICLE	IF	CITATIONS
404	The sorting receptor SorCS3 is a stronger regulator of glutamate receptor functions compared to GABAergic mechanisms in the hippocampus. <i>Hippocampus</i> , 2017, 27, 235-248.	0.9	23
405	Bidirectional modulation of taste aversion extinction by insular cortex LTP and LTD. <i>Neurobiology of Learning and Memory</i> , 2017, 142, 85-90.	1.0	26
406	Correlating Fluorescence and High-Resolution Scanning Electron Microscopy (HRSEM) for the study of GABAA receptor clustering induced by inhibitory synaptic plasticity. <i>Scientific Reports</i> , 2017, 7, 13768.	1.6	7
407	NMDA Receptors in the Central Nervous System. <i>Methods in Molecular Biology</i> , 2017, 1677, 1-80.	0.4	105
408	Enhanced AMPA Receptor Trafficking Mediates the Anorexigenic Effect of Endogenous Glucagon-like Peptide-1 in the Paraventricular Hypothalamus. <i>Neuron</i> , 2017, 96, 897-909.e5.	3.8	133
409	Essential role of endogenous calcitonin gene-related peptide in pain-associated plasticity in the central amygdala. <i>European Journal of Neuroscience</i> , 2017, 46, 2149-2160.	1.2	50
411	Mapping the Consequences of Impaired Synaptic Plasticity in Schizophrenia through Development: An Integrative Model for Diverse Clinical Features. <i>Trends in Cognitive Sciences</i> , 2017, 21, 760-778.	4.0	110
412	Structural modeling for the open state of an NMDA receptor. <i>Journal of Structural Biology</i> , 2017, 200, 369-375.	1.3	13
413	Does transcranial electrical stimulation enhance corticospinal excitability of the motor cortex in healthy individuals? A systematic review and meta-analysis. <i>European Journal of Neuroscience</i> , 2017, 46, 1968-1990.	1.2	77
414	Src homology 2 domain-containing phosphotyrosine phosphatase 2 (Shp2) controls surface GluA1 protein in synaptic homeostasis. <i>Journal of Biological Chemistry</i> , 2017, 292, 15481-15488.	1.6	13
415	Dynamical system with plastic self-organized velocity field as an alternative conceptual model of a cognitive system. <i>Scientific Reports</i> , 2017, 7, 17007.	1.6	7
417	Acetazolamide potentiates the afferent drive to prefrontal cortex in vivo. <i>Physiological Reports</i> , 2017, 5, e13066.	0.7	9
418	The activation of metabotropic glutamate 5 receptors in the rat ventral tegmental area increases dopamine extracellular levels. <i>NeuroReport</i> , 2017, 28, 28-34.	0.6	10
419	Stochastic lattice model of synaptic membrane protein domains. <i>Physical Review E</i> , 2017, 95, 052406.	0.8	7
421	Action steps using ACEs and trauma-informed care: a resilience model. <i>Health and Justice</i> , 2017, 5, 5.	0.9	104
422	FGF1 is a new weapon to control type 2 diabetes mellitus. <i>Nature Reviews Endocrinology</i> , 2017, 13, 599-609.	4.3	74
423	Selective dentate gyrus disruption causes memory impairment at the early stage of experimental multiple sclerosis. <i>Brain, Behavior, and Immunity</i> , 2017, 60, 240-254.	2.0	50
424	Stimulation Pattern-Dependent Plasticity at Hippocampal CCK-Positive Interneuron to Pyramidal Cell Perisomatic Inhibitory Synapses. <i>BioNanoScience</i> , 2017, 7, 130-131.	1.5	0

#	ARTICLE	IF	CITATIONS
425	Regulation of fear extinction by long-term depression: The roles of endocannabinoids and brain derived neurotrophic factor. <i>Behavioural Brain Research</i> , 2017, 319, 148-164.	1.2	23
426	Electrophysiological approaches to unravel the neurobiological basis of appetite and satiety: use of the multielectrode array as a screening strategy. <i>Drug Discovery Today</i> , 2017, 22, 31-42.	3.2	5
428	Î²-opioid receptor inhibition prevents remifentanyl-induced postoperative hyperalgesia via regulating GluR1 trafficking and AMPA receptor function. <i>Experimental and Therapeutic Medicine</i> , 2017, 15, 2140-2147.	0.8	6
429	Introductory Chapter: Mechanisms and Function of Synaptic Plasticity. , 0, , .		4
430	Learning and Memory in Addiction. , 2017, , 523-538.		7
431	Palatable Hyper-Caloric Foods Impact on Neuronal Plasticity. <i>Frontiers in Behavioral Neuroscience</i> , 2017, 11, 19.	1.0	56
432	Key Metabolic Enzymes Underlying Astrocytic Upregulation of GABAergic Plasticity. <i>Frontiers in Cellular Neuroscience</i> , 2017, 11, 144.	1.8	6
433	SPIN90 Modulates Long-Term Depression and Behavioral Flexibility in the Hippocampus. <i>Frontiers in Molecular Neuroscience</i> , 2017, 10, 295.	1.4	8
434	Tetraspanin 6: A novel regulator of hippocampal synaptic transmission and long term plasticity. <i>PLoS ONE</i> , 2017, 12, e0171968.	1.1	16
435	Singing modulates parvalbumin interneurons throughout songbird forebrain vocal control circuitry. <i>PLoS ONE</i> , 2017, 12, e0172944.	1.1	12
436	Neurochemical Aspects of Î²-Amyloid Cascade Hypothesis for Alzheimer's Disease. , 2017, , 1-46.		0
437	Effects of computerized cognitive training on neuroimaging outcomes in older adults: a systematic review. <i>BMC Geriatrics</i> , 2017, 17, 139.	1.1	64
439	Phosphodiesterase 2A Inhibitor TAK-915 Ameliorates Cognitive Impairments and Social Withdrawal in N-Methyl-d-Aspartate Receptor Antagonist-Induced Rat Models of Schizophrenia. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2018, 365, 179-188.	1.3	23
440	Antibodies and the brain: antiribosomal P protein antibody and the clinical effects in patients with systemic lupus erythematosus. <i>Current Opinion in Neurology</i> , 2018, 31, 300-305.	1.8	23
441	Dopaminergic innervation and modulation of hippocampal networks. <i>Cell and Tissue Research</i> , 2018, 373, 711-727.	1.5	63
442	Modification of the association between antipsychotic treatment response and childhood adversity by MMP9 gene variants in a first-episode schizophrenia cohort. <i>Psychiatry Research</i> , 2018, 262, 141-148.	1.7	18
443	Membrane cholesterol mediates the cellular effects of monolayer graphene substrates. <i>Nature Communications</i> , 2018, 9, 796.	5.8	45
444	Modulation of GSK-3/Î²-Catenin Signaling Contributes to Learning and Memory Impairment in a Rat Model of Depression. <i>International Journal of Neuropsychopharmacology</i> , 2018, 21, 858-870.	1.0	43

#	ARTICLE	IF	CITATIONS
445	An enriched environment restores hepatitis B vaccination-mediated impairments in synaptic function through IFN- β /Arginase1 signaling. <i>Brain, Behavior, and Immunity</i> , 2018, 71, 116-132.	2.0	9
446	Extinction of aversive taste memory homeostatically prevents the maintenance of in vivo insular cortex LTP: Calcineurin participation. <i>Neurobiology of Learning and Memory</i> , 2018, 154, 54-61.	1.0	9
447	The effect of chronic stimulation of serotonin receptor type 7 on recognition, passive avoidance memory, hippocampal long-term potentiation, and neuronal apoptosis in the amyloid β protein treated rat. <i>Psychopharmacology</i> , 2018, 235, 1513-1525.	1.5	37
448	The role of 19S proteasome associated deubiquitinases in activity-dependent hippocampal synaptic plasticity. <i>Neuropharmacology</i> , 2018, 133, 354-365.	2.0	16
449	Hippocampal expression of a virus-derived protein impairs memory in mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 1611-1616.	3.3	12
450	Interaction between hippocampal-prefrontal plasticity and thalamic-prefrontal activity. <i>Scientific Reports</i> , 2018, 8, 1382.	1.6	16
451	Calcium Release Mediated by Redox-Sensitive RyR2 Channels Has a Central Role in Hippocampal Structural Plasticity and Spatial Memory. <i>Antioxidants and Redox Signaling</i> , 2018, 29, 1125-1146.	2.5	48
452	A translational approach to the genetics of anxiety disorders. <i>Behavioural Brain Research</i> , 2018, 341, 91-97.	1.2	18
453	Drosophila active zones: From molecules to behaviour. <i>Neuroscience Research</i> , 2018, 127, 14-24.	1.0	20
454	Potential for therapeutic targeting of AKAP signaling complexes in nervous system disorders. , 2018, 185, 99-121.		47
455	Cliotransmission: Beyond Black-and-White. <i>Journal of Neuroscience</i> , 2018, 38, 14-25.	1.7	256
456	Facilitation of hippocampal long-term potentiation and reactivation of latent HIV-1 via AMPK activation: Common mechanism of action linking learning, memory, and the potential eradication of HIV-1. <i>Medical Hypotheses</i> , 2018, 116, 61-73.	0.8	8
457	Positive Modulators of the <i>N</i> -Methyl-D-aspartate Receptor: Structure-Activity Relationship Study of Steroidal 3-Hemiesters. <i>Journal of Medicinal Chemistry</i> , 2018, 61, 4505-4516.	2.9	20
458	Cortical region-specific sleep homeostasis in mice: effects of time of day and waking experience. <i>Sleep</i> , 2018, 41, .	0.6	39
459	In vivo relationship between serotonin 1A receptor binding and gray matter volume in the healthy brain and in major depressive disorder. <i>Brain Structure and Function</i> , 2018, 223, 2609-2625.	1.2	14
460	JIP1-Mediated JNK Activation Negatively Regulates Synaptic Plasticity and Spatial Memory. <i>Journal of Neuroscience</i> , 2018, 38, 3708-3728.	1.7	22
461	Mechanisms of ketamine action as an antidepressant. <i>Molecular Psychiatry</i> , 2018, 23, 801-811.	4.1	646
462	Erythropoietin Induces Homeostatic Plasticity at Hippocampal Synapses. <i>Cerebral Cortex</i> , 2018, 28, 2795-2809.	1.6	11

#	ARTICLE	IF	CITATIONS
463	Regulation of spine structural plasticity by Arc/Arg3.1. <i>Seminars in Cell and Developmental Biology</i> , 2018, 77, 25-32.	2.3	36
464	Biomimetic tactile sensors and signal processing with spike trains: A review. <i>Sensors and Actuators A: Physical</i> , 2018, 269, 41-52.	2.0	40
465	Convergent Neuronal Plasticity and Metaplasticity Mechanisms of Stress, Nicotine, and Alcohol. <i>Annual Review of Pharmacology and Toxicology</i> , 2018, 58, 547-566.	4.2	26
466	Neuronal activity-dependent local activation of dendritic unfolded protein response promotes expression of brain-derived neurotrophic factor in cell soma. <i>Journal of Neurochemistry</i> , 2018, 144, 35-49.	2.1	32
467	Functional significance of O-GlcNAc modification in regulating neuronal properties. <i>Pharmacological Research</i> , 2018, 129, 295-307.	3.1	24
468	Presynaptic β 2-adrenoceptor modulates glutamatergic synaptic transmission in rat nucleus accumbens in vitro. <i>Neuroscience Letters</i> , 2018, 665, 117-122.	1.0	5
469	Stress, Trauma and Synaptic Plasticity. , 2018, , .		2
470	The Interest of Adding Micronutrients to Docosahexaenoic Acid Supplementation to Prevent Age-Related Cognitive Decline. , 2018, 08, .		1
471	Analysis of information flow in MISO neuro-spike communication channel with synaptic plasticity. , 2018, , .		2
472	Emulating dynamic synaptic plasticity over broad timescales with memristive device. <i>Applied Physics Letters</i> , 2018, 113, .	1.5	21
473	Calcium-Dependent Desensitization of NMDA Receptors. <i>Biochemistry (Moscow)</i> , 2018, 83, 1173-1183.	0.7	36
474	Group I Metabotropic Glutamate Receptors (mGluRs): Ins and Outs. <i>Advances in Experimental Medicine and Biology</i> , 2018, 1112, 163-175.	0.8	12
475	Ryanodine Receptor-Mediated Calcium Release Has a Key Role in Hippocampal LTD Induction. <i>Frontiers in Cellular Neuroscience</i> , 2018, 12, 403.	1.8	23
476	Interplay of multiple pathways and activity-dependent rules in STDP. <i>PLoS Computational Biology</i> , 2018, 14, e1006184.	1.5	9
477	Triclosan Impairs Hippocampal Synaptic Plasticity and Spatial Memory in Male Rats. <i>Frontiers in Molecular Neuroscience</i> , 2018, 11, 429.	1.4	19
478	Improving the Gene Ontology Resource to Facilitate More Informative Analysis and Interpretation of Alzheimer's Disease Data. <i>Genes</i> , 2018, 9, 593.	1.0	15
479	Modern Concepts of Cholinergic Neurotransmission at the Motor Synapse. <i>Biochemistry (Moscow) Supplement Series A: Membrane and Cell Biology</i> , 2018, 12, 209-222.	0.3	3
480	Strong Inhibitory Effect, Low Cytotoxicity and High Plasma Stability of Steroidal Inhibitors of N-Methyl-D-Aspartate Receptors With C-3 Amide Structural Motif. <i>Frontiers in Pharmacology</i> , 2018, 9, 1299.	1.6	9

#	ARTICLE	IF	CITATIONS
481	Self-limited single nanowire systems combining all-in-one memristive and neuromorphic functionalities. <i>Nature Communications</i> , 2018, 9, 5151.	5.8	115
482	Structure, function, and allosteric modulation of NMDA receptors. <i>Journal of General Physiology</i> , 2018, 150, 1081-1105.	0.9	363
483	Association of the Synapse-Associated Protein 97 (SAP97) Gene Polymorphism With Neurocognitive Function in Schizophrenic Patients. <i>Frontiers in Psychiatry</i> , 2018, 9, 458.	1.3	15
484	A Revised View on the Role of Surface AMPAR Mobility in Tuning Synaptic Transmission: Limitations, Tools, and Alternative Views. <i>Frontiers in Synaptic Neuroscience</i> , 2018, 10, 21.	1.3	9
485	Diosmin is neuroprotective in a rat model of scopolamine-induced cognitive impairment. <i>Biomedicine and Pharmacotherapy</i> , 2018, 108, 1376-1383.	2.5	48
486	Effect of Ketamine on LTP and NMDAR EPSC in Hippocampus of the Chronic Social Defeat Stress Mice Model of Depression. <i>Frontiers in Behavioral Neuroscience</i> , 2018, 12, 229.	1.0	53
487	Oxytocin receptor signaling in the hippocampus: Role in regulating neuronal excitability, network oscillatory activity, synaptic plasticity and social memory. <i>Progress in Neurobiology</i> , 2018, 171, 1-14.	2.8	61
488	Bridging Synaptic and Epigenetic Maintenance Mechanisms of the Engram. <i>Frontiers in Molecular Neuroscience</i> , 2018, 11, 369.	1.4	31
489	Central nervous system neuroplasticity and the sensitization of hypertension. <i>Nature Reviews Nephrology</i> , 2018, 14, 750-766.	4.1	52
490	How synaptic plasticity influences spike synchronization and its transitions in complex neuronal network. <i>Chaos</i> , 2018, 28, 083120.	1.0	3
491	Assessment of neuroplasticity in late-life depression with transcranial magnetic stimulation. <i>Journal of Psychiatric Research</i> , 2018, 105, 63-70.	1.5	6
492	The antidepressant action of 3-(2-carboxypiperazin-4-yl)propyl-1-phosphonic acid is mediated by phosphorylation of histone deacetylase 5. <i>Korean Journal of Physiology and Pharmacology</i> , 2018, 22, 155.	0.6	1
493	Are Gene-Environment Interactions Underpinning the Development of Creative Polymathy?. <i>Interchange</i> , 2018, 49, 343-352.	1.0	3
494	Recent advances in the use of MRI to assess early human cortical development. <i>Journal of Magnetic Resonance</i> , 2018, 293, 56-69.	1.2	15
495	Transposable elements, placental development, and oocyte activation: Cellular stress and AMPK links jumping genes with the creation of human life. <i>Medical Hypotheses</i> , 2018, 118, 44-54.	0.8	12
496	Disentangling the role of TRPM4 in hippocampus-dependent plasticity and learning: an electrophysiological, behavioral and fMRI approach. <i>Brain Structure and Function</i> , 2018, 223, 3557-3576.	1.2	19
497	Diffusion Tensor Imaging Evaluation of Neural Network Development in Patients Undergoing Therapeutic Repetitive Transcranial Magnetic Stimulation following Stroke. <i>Neural Plasticity</i> , 2018, 2018, 1-8.	1.0	12
498	Synaptic N6-methyladenosine (m6A) epitranscriptome reveals functional partitioning of localized transcripts. <i>Nature Neuroscience</i> , 2018, 21, 1004-1014.	7.1	153

#	ARTICLE	IF	CITATIONS
499	The effect of stimulation interval on plasticity following repeated blocks of intermittent theta burst stimulation. <i>Scientific Reports</i> , 2018, 8, 8526.	1.6	68
500	Tumor Necrosis Factor and Interleukin-1 β Modulate Synaptic Plasticity during Neuroinflammation. <i>Neural Plasticity</i> , 2018, 2018, 1-12.	1.0	149
501	Monitoring hippocampal glycine with the computationally designed optical sensor GlyFS. <i>Nature Chemical Biology</i> , 2018, 14, 861-869.	3.9	60
502	Inhibition of NMDA Receptors Prevents the Loss of BDNF Function Induced by Amyloid β . <i>Frontiers in Pharmacology</i> , 2018, 9, 237.	1.6	54
503	Long-Term DL-3-n-Butylphthalide Treatment Alleviates Cognitive Impairment Correlate With Improving Synaptic Plasticity in SAMP8 Mice. <i>Frontiers in Aging Neuroscience</i> , 2018, 10, 200.	1.7	22
504	Optimization of Noninvasive Brain Stimulation Clinical Trials. , 2018, , 1627-1635.		0
505	Input Convergence, Synaptic Plasticity and Functional Coupling Across Hippocampal-Prefrontal-Thalamic Circuits. <i>Frontiers in Neural Circuits</i> , 2018, 12, 40.	1.4	15
506	Diversity matters: combinatorial information coding by GABAA receptor subunits during spatial learning and its allosteric modulation. <i>Cellular Signalling</i> , 2018, 50, 142-159.	1.7	5
507	Mesenchymal Stem Cell Protection of Neurons against Glutamate Excitotoxicity Involves Reduction of NMDA-Triggered Calcium Responses and Surface GluR1, and Is Partly Mediated by TNF. <i>International Journal of Molecular Sciences</i> , 2018, 19, 651.	1.8	31
508	Neural memory of the genioglossus muscle during sleep is stage-dependent in healthy subjects and obstructive sleep apnoea patients. <i>Journal of Physiology</i> , 2018, 596, 5163-5173.	1.3	11
509	Neurodegenerative diseases: model organisms, pathology and autophagy. <i>Journal of Genetics</i> , 2018, 97, 679-701.	0.4	16
510	Synaptic plasticity mechanisms common to learning and alcohol use disorder. <i>Learning and Memory</i> , 2018, 25, 425-434.	0.5	34
511	Gintonin Attenuates D-Galactose-Induced Hippocampal Senescence by Improving Long-Term Hippocampal Potentiation, Neurogenesis, and Cognitive Functions. <i>Gerontology</i> , 2018, 64, 562-575.	1.4	25
512	A Critical Role for Sorting Nexin 1 in the Trafficking of Metabotropic Glutamate Receptors. <i>Journal of Neuroscience</i> , 2018, 38, 8605-8620.	1.7	16
513	Postsynaptic p47phox regulates long-term depression in the hippocampus. <i>Cell Discovery</i> , 2018, 4, 44.	3.1	7
514	Integrin activity in neuronal connectivity. <i>Journal of Cell Science</i> , 2018, 131, .	1.2	78
515	St John's wort extract influences membrane fluidity and composition of phosphatidylcholine and phosphatidylethanolamine in rat C6 glioblastoma cells. <i>Phytomedicine</i> , 2019, 54, 66-76.	2.3	13
516	The Onset and Progression of Hippocampal Synaptic Plasticity Deficits in the Q175FDN Mouse Model of Huntington Disease. <i>Frontiers in Cellular Neuroscience</i> , 2019, 13, 326.	1.8	12

#	ARTICLE	IF	CITATIONS
517	Dorsal Striatal Circuits for Habits, Compulsions and Addictions. <i>Frontiers in Systems Neuroscience</i> , 2019, 13, 28.	1.2	105
518	Proteins or RNA synthesis inhibitors suppressed induction of amnesia developing under impairment of memory reconsolidation by serotonin receptors antagonist. <i>Neurochemistry International</i> , 2019, 131, 104520.	1.9	0
519	CPEB3 inhibits translation of mRNA targets by localizing them to P bodies. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 18078-18087.	3.3	69
520	Exercise improves depressive symptoms by increasing the number of excitatory synapses in the hippocampus of CUS-Induced depression model rats. <i>Behavioural Brain Research</i> , 2019, 374, 112115.	1.2	21
521	Lmtk3-KO Mice Display a Range of Behavioral Abnormalities and Have an Impairment in GluA1 Trafficking. <i>Neuroscience</i> , 2019, 414, 154-167.	1.1	5
522	Role of microtubules in late-associative plasticity of hippocampal Schaffer collateral-CA1 synapses in mice. <i>Neurobiology of Learning and Memory</i> , 2019, 163, 107038.	1.0	1
523	Autoimmune receptor encephalitis in mice induced by active immunization with conformationally stabilized holoreceptors. <i>Science Translational Medicine</i> , 2019, 11, .	5.8	60
524	Multi-scale modeling of the circadian modulation of learning and memory. <i>PLoS ONE</i> , 2019, 14, e0219915.	1.1	4
525	Evaluation of the Wistar-Kyoto rat model of depression and the role of synaptic plasticity in depression and antidepressant response. <i>Neuroscience and Biobehavioral Reviews</i> , 2019, 105, 1-23.	2.9	62
526	Memory Prosthesis: Is It Time for a Deep Neuromimetic Computing Approach?. <i>Frontiers in Neuroscience</i> , 2019, 13, 667.	1.4	6
527	Linking Omega-3 Fatty Acids and Depression. , 2019, , 199-212.		5
528	Development of wirelessly-powered, extracranial brain activator (ECBA) in a large animal model for the future non-invasive human neuromodulation. <i>Scientific Reports</i> , 2019, 9, 10906.	1.6	5
529	A perspective: from the serotonin hypothesis to cognitive neuropsychological approaches. , 2019, , 95-104.		2
530	One-to-one mapping between stimulus and neural state: Memory and classification. <i>AIP Advances</i> , 2019, 9, 045225.	0.6	1
531	INX-18 and INX-19 play distinct roles in electrical synapses that modulate aversive behavior in <i>Caenorhabditis elegans</i> . <i>PLoS Genetics</i> , 2019, 15, e1008341.	1.5	9
532	Neuromodulators and Long-Term Synaptic Plasticity in Learning and Memory: A Steered-Glutamatergic Perspective. <i>Brain Sciences</i> , 2019, 9, 300.	1.1	38
533	Gradient of Expression of Dopamine D2 Receptors Along the Dorso-Ventral Axis of the Hippocampus. <i>Frontiers in Synaptic Neuroscience</i> , 2019, 11, 28.	1.3	24
534	Single Synapse LTP: A Matter of Context?. <i>Frontiers in Cellular Neuroscience</i> , 2019, 13, 496.	1.8	18

#	ARTICLE	IF	CITATIONS
535	Bridging Biological and Artificial Neural Networks with Emerging Neuromorphic Devices: Fundamentals, Progress, and Challenges. <i>Advanced Materials</i> , 2019, 31, e1902761.	11.1	418
536	The Microbiota-Gut-Brain Axis. <i>Physiological Reviews</i> , 2019, 99, 1877-2013.	13.1	2,304
537	A bioinspired optoelectronically engineered artificial neurorobotics device with sensorimotor functionalities. <i>Nature Communications</i> , 2019, 10, 3873.	5.8	85
538	Experience during adolescence shapes brain development: From synapses and networks to normal and pathological behavior. <i>Neurotoxicology and Teratology</i> , 2019, 76, 106834.	1.2	66
539	Phosphorylation of Gephyrin in Zebrafish Mauthner Cells Governs Glycine Receptor Clustering and Behavioral Desensitization to Sound. <i>Journal of Neuroscience</i> , 2019, 39, 8988-8997.	1.7	12
540	Developmental Aspects of Glucose and Calcium Availability on the Persistence of Memory Function Over the Lifespan. <i>Frontiers in Aging Neuroscience</i> , 2019, 11, 253.	1.7	7
541	Acupuncture Improves Comorbid Cognitive Impairments Induced by Neuropathic Pain in Mice. <i>Frontiers in Neuroscience</i> , 2019, 13, 995.	1.4	15
542	Novel Players in the Aging Synapse: Impact on Cognition. <i>Journal of Caffeine and Adenosine Research</i> , 2019, 9, 104-127.	0.8	36
543	Gliotransmission at Tripartite Synapses. <i>Springer Series in Computational Neuroscience</i> , 2019, , 213-226.	0.3	2
544	Reduced presynaptic vesicle stores mediate cellular and network plasticity defects in an early-stage mouse model of Alzheimer's disease. <i>Molecular Neurodegeneration</i> , 2019, 14, 7.	4.4	52
545	Neuroinflammation and cognition across psychiatric conditions. <i>CNS Spectrums</i> , 2019, 24, 4-15.	0.7	86
546	Tunable synaptic behavior realized in C3N composite based memristor. <i>Nano Energy</i> , 2019, 58, 293-303.	8.2	123
547	Increasing Adiponergic System Activity as a Potential Treatment for Depressive Disorders. <i>Molecular Neurobiology</i> , 2019, 56, 7966-7976.	1.9	19
548	Insulin Modulates Excitatory Synaptic Transmission and Synaptic Plasticity in the Mouse Hippocampus. <i>Neuroscience</i> , 2019, 411, 237-254.	1.1	32
549	Effects of autophagy on synaptic-plasticity-related protein expression in the hippocampus CA1 of a rat model of vascular dementia. <i>Neuroscience Letters</i> , 2019, 707, 134312.	1.0	20
550	Solution-Processed Polymer Thin-Film Memristors with an Electrochromic Feature and Frequency-Dependent Synaptic Plasticity. <i>Advanced Intelligent Systems</i> , 2019, 1, 1900022.	3.3	14
551	Mitochondria- and Oxidative Stress-Targeting Substances in Cognitive Decline-Related Disorders: From Molecular Mechanisms to Clinical Evidence. <i>Oxidative Medicine and Cellular Longevity</i> , 2019, 1-26.	1.9	77
552	Cell Clearing Systems Bridging Neuro-Immunity and Synaptic Plasticity. <i>International Journal of Molecular Sciences</i> , 2019, 20, 2197.	1.8	24

#	ARTICLE	IF	CITATIONS
553	PPAR-Î Activation Ameliorates Diabetes-Induced Cognitive Dysfunction by Modulating Integrin-linked Kinase and AMPA Receptor Function. <i>Journal of the American College of Nutrition</i> , 2019, 38, 693-702.	1.1	7
554	The Role of Ghrelin in Regulating Synaptic Function and Plasticity of Feeding-Associated Circuits. <i>Frontiers in Cellular Neuroscience</i> , 2019, 13, 205.	1.8	46
555	Scalable Reconfigurable Memristive Synaptic Structures as a Basis for the Plasticity Mechanisms in Developing and Self-organizing Networks of Artificial Pulsed Neurons. , 2019, , .		0
556	Emotional Theory of Rationality. <i>Frontiers in Integrative Neuroscience</i> , 2019, 13, 11.	1.0	11
557	Neurobiology of rapid-acting antidepressants: convergent effects on GluA1-synaptic function. <i>Molecular Psychiatry</i> , 2019, 24, 1816-1832.	4.1	103
558	The Impact of Studying Brain Plasticity. <i>Frontiers in Cellular Neuroscience</i> , 2019, 13, 66.	1.8	145
559	Rapid active zone remodeling consolidates presynaptic potentiation. <i>Nature Communications</i> , 2019, 10, 1085.	5.8	97
560	3â€²-Daidzein Sulfonate Sodium Protects Against Chronic Cerebral Hypoperfusion-Mediated Cognitive Impairment and Hippocampal Damage via Activity-Regulated Cytoskeleton-Associated Protein Upregulation. <i>Frontiers in Neuroscience</i> , 2019, 13, 104.	1.4	12
561	Remembering to Forget: A Dual Role for Sleep Oscillations in Memory Consolidation and Forgetting. <i>Frontiers in Cellular Neuroscience</i> , 2019, 13, 71.	1.8	28
562	AMPA receptors and their minions: auxiliary proteins in AMPA receptor trafficking. <i>Cellular and Molecular Life Sciences</i> , 2019, 76, 2133-2169.	2.4	78
563	Introductory Chapter: The Chemical Basis of Neural Function and Dysfunction. , 2019, , .		2
564	Dendritic spine morphology and memory formation depend on postsynaptic Caskin proteins. <i>Scientific Reports</i> , 2019, 9, 16843.	1.6	19
565	Synaptic Plasticity Shapes Brain Connectivity: Implications for Network Topology. <i>International Journal of Molecular Sciences</i> , 2019, 20, 6193.	1.8	78
566	Depressive Disorders: Mechanisms, Measurement and Management. <i>Advances in Experimental Medicine and Biology</i> , 2019, , .	0.8	6
567	Quantitative firing pattern phenotyping of hippocampal neuron types. <i>Scientific Reports</i> , 2019, 9, 17915.	1.6	44
568	The ameliorative effects of myricetin on neurobehavioral activity, electrophysiology, and biochemical changes in an animal model of traumatic brain injury. <i>Learning and Motivation</i> , 2019, 68, 101597.	0.6	4
569	Depletion of dietary phytoestrogens reduces hippocampal plasticity and contextual fear memory stability in adult male mouse. <i>Nutritional Neuroscience</i> , 2021, 24, 951-962.	1.5	8
570	Adenosine Receptor-Mediated Developmental Loss of Spike Timing-Dependent Depression in the Hippocampus. <i>Cerebral Cortex</i> , 2019, 29, 3266-3281.	1.6	40

#	ARTICLE	IF	CITATIONS
571	Transient Switching of NMDA-Dependent Long-Term Synaptic Potentiation in CA3-CA1 Hippocampal Synapses to mGluR1-Dependent Potentiation After Pentylentetrazole-Induced Acute Seizures in Young Rats. <i>Cellular and Molecular Neurobiology</i> , 2019, 39, 287-300.	1.7	16
572	Right hippocampus atrophy is independently associated with Alzheimer's disease with psychosis. <i>Psychogeriatrics</i> , 2019, 19, 105-110.	0.6	15
573	Insomnia as a predictor of mental disorders: A systematic review and meta-analysis. <i>Sleep Medicine Reviews</i> , 2019, 43, 96-105.	3.8	614
574	From membrane receptors to protein synthesis and actin cytoskeleton: Mechanisms underlying long lasting forms of synaptic plasticity. <i>Seminars in Cell and Developmental Biology</i> , 2019, 95, 120-129.	2.3	15
575	Early life stress impairs fear memory and synaptic plasticity; a potential role for GluN2B. <i>Neuropharmacology</i> , 2019, 149, 195-203.	2.0	54
576	Neuronal Stress and Its Hormetic Aspects. , 2019, , 171-180.		2
577	Homeostatic plasticityâ€™a presynaptic perspective. <i>Current Opinion in Neurobiology</i> , 2019, 54, 155-162.	2.0	38
578	Computational models of memory consolidation and long-term synaptic plasticity during sleep. <i>Neurobiology of Learning and Memory</i> , 2019, 160, 32-47.	1.0	7
579	Adaptogens in chemobrain (Part I): Plant extracts attenuate cancer chemotherapy-induced cognitive impairment â€™ Transcriptome-wide microarray profiles of neuroglia cells. <i>Phytomedicine</i> , 2019, 55, 80-91.	2.3	22
580	Dietary intake and food sources of one-carbon metabolism nutrients in preschool aged children. <i>European Journal of Clinical Nutrition</i> , 2019, 73, 1179-1193.	1.3	5
581	Caloric restriction, physical activity, and cognitive performance: A review of evidence and a discussion of the potential mediators of BDNF and TrkB. <i>International Journal of Sport and Exercise Psychology</i> , 2019, 17, 89-105.	1.1	7
582	Intensity Matters: High-intensity Interval Exercise Enhances Motor Cortex Plasticity More Than Moderate Exercise. <i>Cerebral Cortex</i> , 2020, 30, 101-112.	1.6	62
583	Age-related shift in LTD is dependent on neuronal adenosine A2A receptors interplay with mGluR5 and NMDA receptors. <i>Molecular Psychiatry</i> , 2020, 25, 1876-1900.	4.1	129
584	Direct current stimulation boosts hebbian plasticity inÂvitro. <i>Brain Stimulation</i> , 2020, 13, 287-301.	0.7	103
585	Is glutamate associated with fear extinction and cognitive behavior therapy outcome in OCD? A pilot study. <i>European Archives of Psychiatry and Clinical Neuroscience</i> , 2020, 270, 1003-1014.	1.8	5
586	From Conditioning to Emotion: Translating Animal Models of Learning to Human Psychopathology. <i>Neuroscientist</i> , 2020, 26, 43-56.	2.6	5
587	Dipeptide IF prevents the effects of hypertensionâ€™induced Alzheimer's disease on longâ€™term memory in the cortex of spontaneously hypertensive rats. <i>Environmental Toxicology</i> , 2020, 35, 570-581.	2.1	7
588	A computational model of systems memory consolidation and reconsolidation. <i>Hippocampus</i> , 2020, 30, 659-677.	0.9	3

#	ARTICLE	IF	CITATIONS
589	Decreased Glutamatergic Synaptic Strength in the Periaqueductal Gray Contributes to Maintenance of Visceral Pain in Male Rats with Experimental Pancreatitis. <i>Neuroscience</i> , 2020, 428, 60-69.	1.1	15
590	More dynamic, more quantitative, unexpectedly intricate: Advanced understanding on synaptic RNA localization in learning and memory. <i>Neurobiology of Learning and Memory</i> , 2020, 168, 107149.	1.0	10
591	Impact of Long Term Plasticity on Information Transmission Over Neuronal Networks. <i>IEEE Transactions on Nanobioscience</i> , 2020, 19, 25-34.	2.2	4
592	Long-term memory consolidation or reconsolidation impairment induces amnesia with key characteristics that are similar to key learning characteristics. <i>Neuroscience and Biobehavioral Reviews</i> , 2020, 108, 542-558.	2.9	7
593	Canonical Wnt Signaling Modulates the Expression of Pre- and Postsynaptic Components in Different Temporal Patterns. <i>Molecular Neurobiology</i> , 2020, 57, 1389-1404.	1.9	14
594	Atomoxetine Reestablishes Long Term Potentiation in a Mouse Model of Attention Deficit/Hyperactivity Disorder. <i>Neuroscience</i> , 2020, 439, 268-274.	1.1	18
595	Modeling Resilience to Damage in Multiple Sclerosis: Plasticity Meets Connectivity. <i>International Journal of Molecular Sciences</i> , 2020, 21, 143.	1.8	9
596	Age-dependent shift in spontaneous excitation-inhibition balance of infralimbic prefrontal layer II/III neurons is accelerated by early life stress, independent of forebrain mineralocorticoid receptor expression. <i>Neuropharmacology</i> , 2020, 180, 108294.	2.0	12
597	Peculiarities in Synthesis of Proteins Implicated in Memory Reconsolidation and Induction of Amnesia. <i>Bulletin of Experimental Biology and Medicine</i> , 2020, 169, 187-191.	0.3	0
598	An air-stable two-dimensional perovskite artificial synapse. <i>Semiconductor Science and Technology</i> , 2020, 35, 104001.	1.0	6
599	Long-Term Impact of Early-Life Stress on Hippocampal Plasticity: Spotlight on Astrocytes. <i>International Journal of Molecular Sciences</i> , 2020, 21, 4999.	1.8	15
600	Grape Seed Proanthocyanidin Extract Ameliorates Streptozotocin-induced Cognitive and Synaptic Plasticity Deficits by Inhibiting Oxidative Stress and Preserving AKT and ERK Activities. <i>Current Medical Science</i> , 2020, 40, 434-443.	0.7	18
601	The Role of ADF/Cofilin in Synaptic Physiology and Alzheimer's Disease. <i>Frontiers in Cell and Developmental Biology</i> , 2020, 8, 594998.	1.8	39
602	In Vivo Plasticity at Hippocampal Schaffer Collateral-CA1 Synapses: Replicability of the LTP Response and Pharmacology in the Long-Evans Rat. <i>Neural Plasticity</i> , 2020, 2020, 1-24.	1.0	7
603	Restoration of Cingulate Long-Term Depression by Enhancing Non-apoptotic Caspase 3 Alleviates Peripheral Pain Hypersensitivity. <i>Cell Reports</i> , 2020, 33, 108369.	2.9	21
604	Hafnia-Based Double-Layer Ferroelectric Tunnel Junctions as Artificial Synapses for Neuromorphic Computing. <i>ACS Applied Electronic Materials</i> , 2020, 2, 4023-4033.	2.0	83
605	Toward Closed-Loop Electrical Stimulation of Neuronal Systems: A Review. <i>Bioelectricity</i> , 2020, 2, 328-347.	0.6	9
606	Cross Talk at the Cytoskeleton-Plasma Membrane Interface: Impact on Neuronal Morphology and Functions. <i>International Journal of Molecular Sciences</i> , 2020, 21, 9133.	1.8	10

#	ARTICLE	IF	CITATIONS
607	Targeting neuroplasticity in patients with neurodegenerative diseases using brain stimulation techniques. <i>Translational Neurodegeneration</i> , 2020, 9, 44.	3.6	14
608	Neuronal surface P antigen (NSPA) modulates postsynaptic NMDAR stability through ubiquitination of tyrosine phosphatase PTPMEG. <i>BMC Biology</i> , 2020, 18, 164.	1.7	6
609	Calsequestrin Deletion Facilitates Hippocampal Synaptic Plasticity and Spatial Learning in Post-Natal Development. <i>International Journal of Molecular Sciences</i> , 2020, 21, 5473.	1.8	3
610	The genetic variations in SAP97 gene and the risk of schizophrenia in the Chinese Han population: a further study. <i>Psychiatric Genetics</i> , 2020, 30, 110-118.	0.6	4
611	Weak Quasiperiodic Signal Propagation through Multilayer Feed-Forward Hodgkin-Huxley Neuronal Network. <i>Complexity</i> , 2020, 2020, 1-9.	0.9	3
612	Detector neural network vs connectionist ANNs. <i>Neurocomputing</i> , 2020, 414, 191-203.	3.5	5
613	Emulating synaptic response in n- and p-channel MoS2 transistors by utilizing charge trapping dynamics. <i>Scientific Reports</i> , 2020, 10, 12178.	1.6	21
614	Silencing miR-20a-5p inhibits axonal growth and neuronal branching and prevents epileptogenesis through RGMa-mediated synaptic plasticity. <i>Journal of Cellular and Molecular Medicine</i> , 2020, 24, 10573-10588.	1.6	20
615	ATP Synthase c-Subunit Leak Causes Aberrant Cellular Metabolism in Fragile X Syndrome. <i>Cell</i> , 2020, 182, 1170-1185.e9.	13.5	64
616	The Effects of 1mA tACS and tRNS on Children/Adolescents and Adults: Investigating Age and Sensitivity to Sham Stimulation. <i>Neural Plasticity</i> , 2020, 2020, 1-14.	1.0	8
617	The two faces of synaptic failure in AppNL-G-F knock-in mice. <i>Alzheimer's Research and Therapy</i> , 2020, 12, 100.	3.0	25
618	Artificially Intelligent Tactile Ferroelectric Skin. <i>Advanced Science</i> , 2020, 7, 2001662.	5.6	45
619	GRIP1 regulates synaptic plasticity and learning and memory. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 25085-25091.	3.3	40
620	A conceptual framework for plasticity in the developing brain. <i>Handbook of Clinical Neurology</i> / Edited By P J Vinken and G W Bruyn, 2020, 173, 57-66.	1.0	1
621	Neurotechnologies as tools for cognitive rehabilitation in stroke patients. <i>Expert Review of Neurotherapeutics</i> , 2020, 20, 1249-1261.	1.4	10
622	Interplay between Peripheral and Central Inflammation in Obesity-Promoted Disorders: The Impact on Synaptic Mitochondrial Functions. <i>International Journal of Molecular Sciences</i> , 2020, 21, 5964.	1.8	42
623	Mass Spectrometric Imaging of Plasma Membrane Lipid Alteration Correlated with Amperometrically Measured Activity-Dependent Plasticity in Exocytosis. <i>International Journal of Molecular Sciences</i> , 2020, 21, 9519.	1.8	10
624	Emerging Materials for Neuromorphic Devices and Systems. <i>IScience</i> , 2020, 23, 101846.	1.9	66

#	ARTICLE	IF	CITATIONS
625	Experience-dependent modulation of the visual evoked potential: Testing effect sizes, retention over time, and associations with age in 415 healthy individuals. <i>NeuroImage</i> , 2020, 223, 117302.	2.1	12
626	Color-Recognizing Si-Based Photonic Synapse for Artificial Visual System. <i>Advanced Intelligent Systems</i> , 2020, 2, 2000107.	3.3	21
627	Electrical Properties and Biological Synaptic Simulation of Ag/MXene/SiO ₂ /Pt RRAM Devices. <i>Electronics (Switzerland)</i> , 2020, 9, 2098.	1.8	25
628	Neuronal Localization of SENP Proteins with Super Resolution Microscopy. <i>Brain Sciences</i> , 2020, 10, 778.	1.1	8
629	Neuromorphic Engineering: From Biological to Spike-Based Hardware Nervous Systems. <i>Advanced Materials</i> , 2020, 32, e2003610.	11.1	153
630	Neurodevelopmental Disorders: Effect of High-Fat Diet on Synaptic Plasticity and Mitochondrial Functions. <i>Brain Sciences</i> , 2020, 10, 805.	1.1	15
631	Making sense of complexity: A qualitative investigation into forensic learning disability nurses' interpretation of the contribution of personal history to offending behaviour. <i>British Journal of Learning Disabilities</i> , 2020, 48, 242-250.	0.8	1
632	Decoding Neurotransmitter Switching: The Road Forward. <i>Journal of Neuroscience</i> , 2020, 40, 4078-4089.	1.7	16
633	Design of defect-chemical properties and device performance in memristive systems. <i>Science Advances</i> , 2020, 6, eaaz9079.	4.7	65
634	Silicon-based optoelectronic synaptic devices*. <i>Chinese Physics B</i> , 2020, 29, 070703.	0.7	19
635	The Basal Forebrain Modulates Neuronal Response in an Active Olfactory Discrimination Task. <i>Frontiers in Cellular Neuroscience</i> , 2020, 14, 141.	1.8	8
636	Alcohol Enhances Responses to High Frequency Stimulation in Hippocampus from Transgenic Mice with Increased Astrocyte Expression of IL-6. <i>Cellular and Molecular Neurobiology</i> , 2021, 41, 1299-1310.	1.7	5
637	How TRPC Channels Modulate Hippocampal Function. <i>International Journal of Molecular Sciences</i> , 2020, 21, 3915.	1.8	9
638	Neuronal Plasticity: Neuronal Organization is Associated with Neurological Disorders. <i>Journal of Molecular Neuroscience</i> , 2020, 70, 1684-1701.	1.1	11
639	The role of intrinsic excitability in the evolution of memory: Significance in memory allocation, consolidation, and updating. <i>Neurobiology of Learning and Memory</i> , 2020, 173, 107266.	1.0	35
640	Acute Administration of Methyleugenol Impairs Hippocampus-Dependent Contextual Fear Memory and Increases Anxiety-like Behavior in Mice. <i>Journal of Agricultural and Food Chemistry</i> , 2020, 68, 7490-7497.	2.4	4
641	The post-synaptic scaffolding protein tamalin regulates ligand-mediated trafficking of metabotropic glutamate receptors. <i>Journal of Biological Chemistry</i> , 2020, 295, 8575-8588.	1.6	15
642	Structural dynamics and stability of corticocortical and thalamocortical axon terminals during motor learning. <i>PLoS ONE</i> , 2020, 15, e0234930.	1.1	17

#	ARTICLE	IF	CITATIONS
643	The Noonan syndrome-associated D61G variant of the protein tyrosine phosphatase SHP2 prevents synaptic down-scaling. <i>Journal of Biological Chemistry</i> , 2020, 295, 10023-10031.	1.6	4
644	Birth and Stabilization of Phase Clusters by Multiplexing of Adaptive Networks. <i>Physical Review Letters</i> , 2020, 124, 088301.	2.9	46
645	FMRP and CYFIP1 at the Synapse and Their Role in Psychiatric Vulnerability. <i>Complex Psychiatry</i> , 2020, 6, 5-19.	1.3	13
646	Administration of Bacterial Lipopolysaccharide during Early Postnatal Ontogenesis Induces Transient Impairment of Long-Term Synaptic Plasticity Associated with Behavioral Abnormalities in Young Rats. <i>Pharmaceuticals</i> , 2020, 13, 48.	1.7	7
647	Bio-mimetic synaptic plasticity and learning in a sub-500ÅmV Cu/SiO ₂ /W memristor. <i>Microelectronic Engineering</i> , 2020, 226, 111290.	1.1	11
648	The After-Effect of Accelerated Intermittent Theta Burst Stimulation at Different Session Intervals. <i>Frontiers in Neuroscience</i> , 2020, 14, 576.	1.4	27
649	Alcohol Intoxication and Cognition: Implications on Mechanisms and Therapeutic Strategies. <i>Frontiers in Neuroscience</i> , 2020, 14, 102.	1.4	20
650	Actin remodeling, the synaptic tag and the maintenance of synaptic plasticity. <i>IUBMB Life</i> , 2020, 72, 577-589.	1.5	22
651	Eukaryotic Elongation Factor 2 Kinase a Pharmacological Target to Regulate Protein Translation Dysfunction in Neurological Diseases. <i>Neuroscience</i> , 2020, 445, 42-49.	1.1	15
652	Time estimation exposure modifies cognitive aspects and cortical activity of attention deficit hyperactivity disorder adults. <i>International Journal of Neuroscience</i> , 2020, 130, 999-1014.	0.8	6
653	Investigation of electrical performance and synaptic long-term plasticity of memristive devices with new transition metal carbide. <i>Semiconductor Science and Technology</i> , 2020, 35, 035008.	1.0	1
654	PTC-174, a positive allosteric modulator of NMDA receptors containing GluN2C or GluN2D subunits. <i>Neuropharmacology</i> , 2020, 173, 107971.	2.0	13
655	Human in vitro systems for examining synaptic function and plasticity in the brain. <i>Journal of Neurophysiology</i> , 2020, 123, 945-965.	0.9	10
656	Activity Shapes Neural Circuit Form and Function: A Historical Perspective. <i>Journal of Neuroscience</i> , 2020, 40, 944-954.	1.7	62
657	A randomized, placebo-controlled laboratory study of the effects of D-cycloserine on sexual memory consolidation in women. <i>Psychopharmacology</i> , 2020, 237, 1291-1303.	1.5	2
658	Relationship between the effect of polyunsaturated fatty acids (PUFAs) on brain plasticity and the improvement on cognition and behavior in individuals with autism spectrum disorder. <i>Nutritional Neuroscience</i> , 2022, 25, 387-410.	1.5	9
659	Long-term potentiation prevents ketamine-induced aberrant neurophysiological dynamics in the hippocampus-prefrontal cortex pathway in vivo. <i>Scientific Reports</i> , 2020, 10, 7167.	1.6	10
660	Consequences of hyperphosphorylated tau on the morphology and excitability of hippocampal neurons in aged tau transgenic mice. <i>Neurobiology of Aging</i> , 2020, 93, 109-123.	1.5	17

#	ARTICLE	IF	CITATIONS
661	Acute Hyperglycemia Increases Brain Pregenual Anterior Cingulate Cortex Glutamate Concentrations in Type 1 Diabetes. <i>Diabetes</i> , 2020, 69, 1528-1539.	0.3	13
662	Deep brain stimulation reduces evoked potentials with a dual time course in freely moving rats: Potential neurophysiological basis for intermittent as an alternative to continuous stimulation. <i>Epilepsia</i> , 2020, 61, 903-913.	2.6	9
663	Hebbian and Homeostatic Synaptic Plasticity—Do Alterations of One Reflect Enhancement of the Other?. <i>Frontiers in Cellular Neuroscience</i> , 2020, 14, 50.	1.8	27
664	Defects in syntabulin-mediated synaptic cargo transport associate with autism-like synaptic dysfunction and social behavioral traits. <i>Molecular Psychiatry</i> , 2021, 26, 1472-1490.	4.1	6
665	Impairment of Synaptic Plasticity by Cannabis, Δ^9 -THC, and Synthetic Cannabinoids. <i>Cold Spring Harbor Perspectives in Medicine</i> , 2021, 11, a039743.	2.9	10
666	Metabotropic Modulation of Potassium Channels During Synaptic Plasticity. <i>Neuroscience</i> , 2021, 456, 4-16.	1.1	10
667	White matter changes follow low-frequency repetitive transcranial magnetic stimulation plus intensive occupational therapy for motor paralysis after stroke: a DTI study using TBSS. <i>Acta Neurologica Belgica</i> , 2021, 121, 387-396.	0.5	13
668	Neuroinflammation induces anxiety- and depressive-like behavior by modulating neuronal plasticity in the basolateral amygdala. <i>Brain, Behavior, and Immunity</i> , 2021, 91, 505-518.	2.0	122
669	Neurophysiological and molecular approaches to understanding the mechanisms of learning and memory. <i>Journal of the Royal Society of New Zealand</i> , 2021, 51, 4-23.	1.0	1
670	Short-term high-fat feeding induces a reversible net decrease in synaptic AMPA receptors in the hypothalamus. <i>Journal of Nutritional Biochemistry</i> , 2021, 87, 108516.	1.9	2
671	Anti- <i>Lingo1</i> antibody ameliorates spatial memory and synapse loss induced by chronic stress. <i>Journal of Comparative Neurology</i> , 2021, 529, 1571-1583.	0.9	5
672	Social context-dependent singing alters molecular markers of synaptic plasticity signaling in finch basal ganglia Area X. <i>Behavioural Brain Research</i> , 2021, 398, 112955.	1.2	2
673	KALRN: A central regulator of synaptic function and synaptopathies. <i>Gene</i> , 2021, 768, 145306.	1.0	22
674	Apelin-13 prevents hippocampal synaptic plasticity impairment in Parkinsonism rats. <i>Journal of Chemical Neuroanatomy</i> , 2021, 111, 101884.	1.0	16
675	Shaping Neuronal Fate: Functional Heterogeneity of Direct Microglia-Neuron Interactions. <i>Neuron</i> , 2021, 109, 222-240.	3.8	113
676	Inhibitory stabilization and cortical computation. <i>Nature Reviews Neuroscience</i> , 2021, 22, 21-37.	4.9	80
677	Modulation of dendritic spines by protein phosphatase-1. <i>Advances in Pharmacology</i> , 2021, 90, 117-144.	1.2	2
678	Emerging role of AMPA receptor subunit GluA1 in synaptic plasticity: Implications for Alzheimer's disease. <i>Cell Proliferation</i> , 2021, 54, e12959.	2.4	38

#	ARTICLE	IF	CITATIONS
679	Glia as sculptors of synaptic plasticity. <i>Neuroscience Research</i> , 2021, 167, 17-29.	1.0	85
680	Neurobiology of the Rapid-Acting Antidepressant Effects of Ketamine: Impact and Opportunities. <i>Biological Psychiatry</i> , 2021, 90, 85-95.	0.7	32
681	Targeting redox-altered plasticity to reactivate synaptic function: A novel therapeutic strategy for cognitive disorder. <i>Acta Pharmaceutica Sinica B</i> , 2021, 11, 599-608.	5.7	15
682	A Monochloro Copper Phthalocyanine Memristor with High-Temperature Resilience for Electronic Synapse Applications. <i>Advanced Materials</i> , 2021, 33, e2006201.	11.1	51
683	Synergies between synaptic and intrinsic plasticity in echo state networks. <i>Neurocomputing</i> , 2021, 432, 32-43.	3.5	12
684	Effects of W/ WO _{3-x} junction on synaptic characteristics of W/WO _{3-x} /ITO memristor. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2021, 127, 114515.	1.3	5
685	Implications of Adult Neural Stem Cell Abnormalities in the Pathophysiological Mechanism of Schizophrenia. <i>Journal of Korean Neuropsychiatric Association</i> , 2021, 60, 28.	0.2	0
686	Control and analysis of epilepsy waveforms in a disinhibition model of cortex network. <i>Nonlinear Dynamics</i> , 2021, 103, 2063-2079.	2.7	9
687	NMDA Receptor Alterations After Mild Traumatic Brain Injury Induce Deficits in Memory Acquisition and Recall. <i>Neural Computation</i> , 2021, 33, 67-95.	1.3	9
688	Real-time fMRI neurofeedback amygdala training may influence kynurenine pathway metabolism in major depressive disorder. <i>NeuroImage: Clinical</i> , 2021, 29, 102559.	1.4	16
689	Understanding Typical and Atypical Neurodevelopment in Children and Adults. , 2021, , 71-106.		1
690	Double Duty: Mitotic Kinesins and Their Post-Mitotic Functions in Neurons. <i>Cells</i> , 2021, 10, 136.	1.8	6
691	Dendritic Integration Dysfunction in Neurodevelopmental Disorders. <i>Developmental Neuroscience</i> , 2021, 43, 201-221.	1.0	14
692	Computational Modeling of Structural Synaptic Plasticity in Echo State Networks. <i>IEEE Transactions on Cybernetics</i> , 2022, 52, 11254-11266.	6.2	6
693	microRNAs as Early Biomarkers of Alzheimer's Disease: A Synaptic Perspective. <i>Cells</i> , 2021, 10, 113.	1.8	37
694	Absence of Ketamine Effects on Learning & Memory Following Exposure during Early Adolescence: A Preliminary Report. <i>Journal of Behavioral and Brain Science</i> , 2021, 11, 27-47.	0.2	0
695	Dietary flavonoids and brain health in aging. , 2021, , 589-601.		1
696	Working and Reference Memory Tasks Trigger Opposed Long-Term Synaptic Changes in the Rat Dentate Gyrus. <i>Cerebral Cortex</i> , 2021, 31, 2980-2992.	1.6	2

#	ARTICLE	IF	CITATIONS
697	The Role of Acupuncture Improving Cognitive Deficits due to Alzheimer's Disease or Vascular Diseases through Regulating Neuroplasticity. <i>Neural Plasticity</i> , 2021, 2021, 1-16.	1.0	9
700	OUP accepted manuscript. <i>Cerebral Cortex</i> , 2021, 32, 197-215.	1.6	6
701	Oxide semiconductor-based ferroelectric thin-film transistors for advanced neuromorphic computing. <i>Applied Physics Letters</i> , 2021, 118, .	1.5	38
702	Virtual Reality for Neurorehabilitation and Cognitive Enhancement. <i>Brain Sciences</i> , 2021, 11, 221.	1.1	53
703	Compartmentalized Signaling in Aging and Neurodegeneration. <i>Cells</i> , 2021, 10, 464.	1.8	17
704	The role of mitochondria in cocaine addiction. <i>Biochemical Journal</i> , 2021, 478, 749-764.	1.7	14
705	Physical exercise promotes brain remodeling by regulating epigenetics, neuroplasticity and neurotrophins. <i>Reviews in the Neurosciences</i> , 2021, 32, 615-629.	1.4	27
706	Metabotropic Regulation of Synaptic Plasticity. <i>Neuroscience</i> , 2021, 456, 1-3.	1.1	0
707	Current Limitations and Candidate Potential of 5-HT7 Receptor Antagonism in Psychiatric Pharmacotherapy. <i>Frontiers in Psychiatry</i> , 2021, 12, 623684.	1.3	25
708	PreSyNC: Hardware realization of the Presynaptic Region of a Biologically Extensive Neuronal Circuitry. , 2021, , .		1
709	A Flexible Mott Synaptic Transistor for Nociceptor Simulation and Neuromorphic Computing. <i>Advanced Functional Materials</i> , 2021, 31, 2101099.	7.8	76
710	Rapid subcellular calcium responses and dynamics by calcium sensor G-CatchER+. <i>IScience</i> , 2021, 24, 102129.	1.9	19
711	Disruption of Long-Term Depression Potentiates Latent Inhibition: Key Role for Central Nucleus of the Amygdala. <i>International Journal of Neuropsychopharmacology</i> , 2021, 24, 580-591.	1.0	0
712	Memristive Artificial Synapses for Neuromorphic Computing. <i>Nano-Micro Letters</i> , 2021, 13, 85.	14.4	108
713	GSK-3 and Tau: A Key Duet in Alzheimer's Disease. <i>Cells</i> , 2021, 10, 721.	1.8	101
714	The role of molecular diffusion within dendritic spines in synaptic function. <i>Journal of General Physiology</i> , 2021, 153, .	0.9	15
715	All-trans retinoic acid induces synaptic plasticity in human cortical neurons. <i>ELife</i> , 2021, 10, .	2.8	36
716	The aging mouse brain: cognition, connectivity and calcium. <i>Cell Calcium</i> , 2021, 94, 102358.	1.1	36

#	ARTICLE	IF	CITATIONS
717	Towards a mechanistic approach for the development of non-invasive brain-computer interfaces for motor rehabilitation. <i>Journal of Physiology</i> , 2021, 599, 2361-2374.	1.3	22
718	Plasticity in the Hippocampus, Neurogenesis and Drugs of Abuse. <i>Brain Sciences</i> , 2021, 11, 404.	1.1	21
719	Robust cortical criticality and diverse dynamics resulting from functional specification. <i>Physical Review E</i> , 2021, 103, 042407.	0.8	2
720	2D Image Reconstruction using Differentiable Plasticity. , 2021, , .		1
721	Ethanol-induced locomotor sensitization: Neuronal activation in the nucleus accumbens and medial prefrontal cortex. <i>Neuroscience Letters</i> , 2021, 749, 135745.	1.0	7
722	Long-term depression-related tau phosphorylation is enhanced by methylene blue in healthy rat hippocampus. <i>Pharmacological Reports</i> , 2021, 73, 828-840.	1.5	1
723	Quantum Information in Neural Systems. <i>Symmetry</i> , 2021, 13, 773.	1.1	8
725	The Role of Decreased Cortical Thickness and Volume of Medial Temporal Lobe Structures in Predicting Incident Psychosis in Patients With Alzheimer's Disease: A Prospective Longitudinal MRI Study. <i>American Journal of Geriatric Psychiatry</i> , 2022, 30, 46-53.	0.6	3
726	Visual cortical plasticity and the risk for psychosis: An interim analysis of the North American Prodrome Longitudinal Study. <i>Schizophrenia Research</i> , 2021, 230, 26-37.	1.1	4
727	Short-Term High-Intensity Interval Exercise Promotes Motor Cortex Plasticity and Executive Function in Sedentary Females. <i>Frontiers in Human Neuroscience</i> , 2021, 15, 620958.	1.0	8
728	Robust switches in thalamic network activity require a timescale separation between sodium and T-type calcium channel activations. <i>PLoS Computational Biology</i> , 2021, 17, e1008997.	1.5	3
729	Repurposing of Anti-Diabetic Agents as a New Opportunity to Alleviate Cognitive Impairment in Neurodegenerative and Neuropsychiatric Disorders. <i>Frontiers in Pharmacology</i> , 2021, 12, 667874.	1.6	17
732	Genomic Approaches to Identify Molecular Bases of Crop Resistance to Diseases and to Develop Future Breeding Strategies. <i>International Journal of Molecular Sciences</i> , 2021, 22, 5423.	1.8	11
733	The Ties That Bind: Aberrant Plasticity and Networks Dysfunction in Movement Disorders—Implications for Rehabilitation. <i>Brain Connectivity</i> , 2021, 11, 278-296.	0.8	3
734	Synaptic Dysfunction in Epilepsy. <i>Journal of Evolutionary Biochemistry and Physiology</i> , 2021, 57, 542-563.	0.2	7
735	Neural Functional Connectivity Reconstruction with Second-Order Memristor Network. <i>Advanced Intelligent Systems</i> , 2021, 3, 2000276.	3.3	9
736	Enkephalin release from VIP interneurons in the hippocampal CA2/3a region mediates heterosynaptic plasticity and social memory. <i>Molecular Psychiatry</i> , 2022, 27, 2879-2900.	4.1	20
737	Instructive roles of astrocytes in hippocampal synaptic plasticity: neuronal activity-dependent regulatory mechanisms. <i>FEBS Journal</i> , 2022, 289, 2202-2218.	2.2	30

#	ARTICLE	IF	CITATIONS
738	Targeting Ionotropic Glutamate Receptors in the Treatment of Epilepsy. <i>Current Neuropharmacology</i> , 2021, 19, 747-765.	1.4	14
739	VEGF counteracts amyloid- β -induced synaptic dysfunction. <i>Cell Reports</i> , 2021, 35, 109121.	2.9	19
740	Structural and Functional Modulation of Perineuronal Nets: In Search of Important Players with Highlight on Tenascins. <i>Cells</i> , 2021, 10, 1345.	1.8	11
742	Recruitment of release sites underlies chemical presynaptic potentiation at hippocampal mossy fiber boutons. <i>PLoS Biology</i> , 2021, 19, e3001149.	2.6	18
743	High-Density Reconfigurable Synaptic Transistors Targeting a Minimalist Neural Network. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 28564-28573.	4.0	7
744	Hippocampal Somatostatin Interneurons, Long-Term Synaptic Plasticity and Memory. <i>Frontiers in Neural Circuits</i> , 2021, 15, 687558.	1.4	32
745	Cytoarchitectural characteristics associated with cognitive flexibility in raccoons. <i>Journal of Comparative Neurology</i> , 2021, 529, 3375-3388.	0.9	8
746	Calcineurin Participation in Hebbian and Homeostatic Plasticity Associated With Extinction. <i>Frontiers in Cellular Neuroscience</i> , 2021, 15, 685838.	1.8	3
747	Effects of Semi-Immersive Virtual Reality-Based Cognitive Training Combined with Locomotor Activity on Cognitive Function and Gait Ability in Community-Dwelling Older Adults. <i>Healthcare (Switzerland)</i> , 2021, 9, 814.	1.0	7
748	Unveiling the pathogenesis of perineural invasion from the perspective of neuroactive molecules. <i>Biochemical Pharmacology</i> , 2021, 188, 114547.	2.0	8
749	Erythrocyte adenosine A2B receptor prevents cognitive and auditory dysfunction by promoting hypoxic and metabolic reprogramming. <i>PLoS Biology</i> , 2021, 19, e3001239.	2.6	11
751	An Enriched Environment Leads to Increased Synaptic Plasticity-Associated miRNA Levels after Experimental Subarachnoid Hemorrhage. <i>Journal of Stroke and Cerebrovascular Diseases</i> , 2021, 30, 105766.	0.7	3
752	Analytical model for memristive systems for neuromorphic computation. <i>Journal Physics D: Applied Physics</i> , 2021, 54, 355101.	1.3	7
753	Transient circulant clusters in two-population network of Kuramoto oscillators with different rules of coupling adaptation. <i>Chaos</i> , 2021, 31, 073112.	1.0	5
754	Stochastic self-assembly of reaction-diffusion patterns in synaptic membranes. <i>Physical Review E</i> , 2021, 104, 014403.	0.8	0
756	Doxorubicin induces dysregulation of AMPA receptor and impairs hippocampal synaptic plasticity leading to learning and memory deficits. <i>Heliyon</i> , 2021, 7, e07456.	1.4	10
757	Presynaptic protein synthesis and brain plasticity: From physiology to neuropathology. <i>Progress in Neurobiology</i> , 2021, 202, 102051.	2.8	17
758	Sensorimotor Integration in Childhood Dystonia and Dystonic Cerebral Palsy—A Developmental Perspective. <i>Frontiers in Neurology</i> , 2021, 12, 668081.	1.1	4

#	ARTICLE	IF	CITATIONS
759	An Overview of Noninvasive Brain Stimulation: Basic Principles and Clinical Applications. <i>Canadian Journal of Neurological Sciences</i> , 2022, 49, 479-492.	0.3	25
760	The Coordination of Local Translation, Membranous Organelle Trafficking, and Synaptic Plasticity in Neurons. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 711446.	1.8	18
761	Early Life Febrile Seizures Impair Hippocampal Synaptic Plasticity in Young Rats. <i>International Journal of Molecular Sciences</i> , 2021, 22, 8218.	1.8	17
762	SyNC, a Computationally Extensive and Realistic Neural Net to Identify Relative Impacts of Synaptopathy Mechanisms on Glutamatergic Neurons and Their Networks in Autism and Complex Neurological Disorders. <i>Frontiers in Cellular Neuroscience</i> , 2021, 15, 674030.	1.8	1
763	Mapping reward mechanisms by intracerebral self-stimulation in the rhesus monkey (<i>Macaca</i>)	0.9	0
764	Reinstatement of synaptic plasticity in the aging brain through specific dopamine transporter inhibition. <i>Molecular Psychiatry</i> , 2021, 26, 7076-7090.	4.1	19
765	Robustness of a dynamical systems model with a plastic self-organising vector field to noisy input signals. <i>European Physical Journal Plus</i> , 2021, 136, 1.	1.2	2
766	A Temporal Activity of CA1 Neurons Underlying Short-Term Memory for Social Recognition Altered in PTEN Mouse Models of Autism Spectrum Disorder. <i>Frontiers in Cellular Neuroscience</i> , 2021, 15, 699315.	1.8	9
768	Graphene-Based Artificial Synapses with Tunable Plasticity. <i>ACM Journal on Emerging Technologies in Computing Systems</i> , 2021, 17, 1-21.	1.8	4
769	Metaplastic regulation of neocortical long-term depression in vivo is sensitive to distinct phases of conditioned taste aversion. <i>Neurobiology of Learning and Memory</i> , 2021, 182, 107449.	1.0	3
770	Torpor enhances synaptic strength and restores memory performance in a mouse model of Alzheimer's disease. <i>Scientific Reports</i> , 2021, 11, 15486.	1.6	5
771	The role of PTEN signaling in synaptic function: Implications in autism spectrum disorder. <i>Neuroscience Letters</i> , 2021, 759, 136015.	1.0	9
772	Age affects temporal response, but not durability, to serial ketamine infusions for treatment refractory depression. <i>Psychopharmacology</i> , 2021, 238, 3229-3237.	1.5	9
773	A Functional Dissection of the mRNA and Locally Synthesized Protein Population in Neuronal Dendrites and Axons. <i>Annual Review of Genetics</i> , 2021, 55, 183-207.	3.2	21
774	Gut Microbiota and Neuroplasticity. <i>Cells</i> , 2021, 10, 2084.	1.8	22
775	Dexmedetomidine does not compromise neuronal viability, synaptic connectivity, learning and memory in a rodent model. <i>Scientific Reports</i> , 2021, 11, 16153.	1.6	6
776	Individualized video recommendation modulates functional connectivity between large scale networks. <i>Human Brain Mapping</i> , 2021, 42, 5288-5299.	1.9	7
777	LIM-Kinases in Synaptic Plasticity, Memory, and Brain Diseases. <i>Cells</i> , 2021, 10, 2079.	1.8	21

#	ARTICLE	IF	CITATIONS
778	NMDARs Containing NR2B Subunit Do Not Contribute to the LTP Form of Hippocampal Plasticity: In Vivo Pharmacological Evidence in Rats. <i>International Journal of Molecular Sciences</i> , 2021, 22, 8672.	1.8	2
779	The Role of AMPARs Composition and Trafficking in Synaptic Plasticity and Diseases. <i>Cellular and Molecular Neurobiology</i> , 2022, 42, 2489-2504.	1.7	15
781	Targeting synaptic plasticity in schizophrenia: insights from genomic studies. <i>Trends in Molecular Medicine</i> , 2021, 27, 1022-1032.	3.5	17
782	Ceftriaxone Treatment Weakens Long-Term Synaptic Potentiation in the Hippocampus of Young Rats. <i>International Journal of Molecular Sciences</i> , 2021, 22, 8417.	1.8	3
783	Effects of General Anesthetics on Synaptic Transmission and Plasticity. <i>Current Neuropharmacology</i> , 2022, 20, 27-54.	1.4	15
784	Pharmacologic agents directed at the treatment of pain associated with maladaptive neuronal plasticity. <i>Expert Opinion on Pharmacotherapy</i> , 2021, , 1-12.	0.9	6
785	Brain Plasticity in Humans and Model Systems: Advances, Challenges, and Future Directions. <i>International Journal of Molecular Sciences</i> , 2021, 22, 9358.	1.8	23
786	Cell-type and subcellular compartment-specific APEX2 proximity labeling reveals activity-dependent nuclear proteome dynamics in the striatum. <i>Nature Communications</i> , 2021, 12, 4855.	5.8	33
787	Kainate receptors and synaptic plasticity. <i>Neuropharmacology</i> , 2021, 196, 108540.	2.0	22
788	5-HT7 receptor activation rescues impaired synaptic plasticity in an autistic-like rat model induced by prenatal VPA exposure. <i>Neurobiology of Learning and Memory</i> , 2021, 183, 107462.	1.0	7
789	Brain-derived neurotrophic factor produced long-term synaptic enhancement in the anterior cingulate cortex of adult mice. <i>Molecular Brain</i> , 2021, 14, 140.	1.3	15
791	Modeling plasticity during epileptogenesis by long short term memory neural networks. <i>Cognitive Neurodynamics</i> , 2022, 16, 401-409.	2.3	1
792	Sustained postsynaptic kainate receptor activation downregulates AMPA receptor surface expression and induces hippocampal LTD. <i>iScience</i> , 2021, 24, 103029.	1.9	6
793	NMDARs in granule cells contribute to parallel fiberâ€“Purkinje cell synaptic plasticity and motor learning. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	17
794	Synaptic Dysfunction in Multiple Sclerosis: A Red Thread from Inflammation to Network Disconnection. <i>International Journal of Molecular Sciences</i> , 2021, 22, 9753.	1.8	17
795	Short-Term Facilitation-Then-Depression Enables Adaptive Processing of Sensory Inputs by Ion Channels in Biomolecular Synapses. <i>ACS Applied Electronic Materials</i> , 2021, 3, 4448-4458.	2.0	5
796	Neuroplasticity as a convergent mechanism of ketamine and classical psychedelics. <i>Trends in Pharmacological Sciences</i> , 2021, 42, 929-942.	4.0	87
797	Novel rapid-acting glutamatergic modulators: Targeting the synaptic plasticity in depression. <i>Pharmacological Research</i> , 2021, 171, 105761.	3.1	31

#	ARTICLE	IF	CITATIONS
798	Disrupted Sleep Homeostasis and Altered Expressions of Clock Genes in Rats with Chronic Lead Exposure. <i>Toxics</i> , 2021, 9, 217.	1.6	3
799	JigCell: A New Environment to Simulate the Dynamics of Memory Formation. <i>European Journal of Technic</i> , 0, .	0.2	0
800	Characterization of the subunit composition and structure of adult human glycine receptors. <i>Neuron</i> , 2021, 109, 2707-2716.e6.	3.8	32
801	Nerve Impulses Have Three Interdependent Functions: Communication, Modulation, and Computation. <i>Bioelectricity</i> , 2021, 3, 161-170.	0.6	5
802	Neuronal growth and synaptogenesis are inhibited by prenatal methamphetamine exposure leading to memory impairment in adolescent and adult mice. <i>Toxicology Letters</i> , 2021, 351, 99-110.	0.4	6
803	Intermittent Hypoxia causes targeted disruption to NMDA receptor dependent synaptic plasticity in area CA1 of the hippocampus. <i>Experimental Neurology</i> , 2021, 344, 113808.	2.0	11
804	Mechanisms of endocannabinoid control of synaptic plasticity. <i>Neuropharmacology</i> , 2021, 197, 108736.	2.0	23
805	Short-Term Epileptiform Activity Potentiates Excitatory Synapses but Does Not Affect Intrinsic Membrane Properties of Pyramidal Neurons in the Rat Hippocampus In Vitro. <i>Biomedicines</i> , 2021, 9, 1374.	1.4	10
806	Acute social and somatic stress alters cortical metaplasticity probed with non-invasive brain stimulation in humans. <i>International Journal of Psychophysiology</i> , 2021, 170, 1-5.	0.5	10
807	Pathological mechanisms and therapeutic strategies for Alzheimer's disease. <i>Neural Regeneration Research</i> , 2022, 17, 543.	1.6	146
808	Effects of oxytocin on psychological resilience: The neurochemical mechanisms in the hippocampus. <i>Advances in Psychological Science</i> , 2021, 29, 311.	0.2	0
809	Brief Sensory Deprivation Triggers Cell Type-Specific Structural and Functional Plasticity in Olfactory Bulb Neurons. <i>Journal of Neuroscience</i> , 2021, 41, 2135-2151.	1.7	29
810	Combined treatment with valproic acid and estrogen has neuroprotective effects in ovariectomized mice with Alzheimer's disease. <i>Neural Regeneration Research</i> , 2021, 16, 2078.	1.6	6
812	Stress-Induced Neural Plasticity Mediated by Glial GPCR REMO-1 Promotes <i>C.Âlegans</i> Adaptive Behavior. <i>Cell Reports</i> , 2021, 34, 108607.	2.9	10
813	The role of astrocyte-mediated plasticity in neural circuit development and function. <i>Neural Development</i> , 2021, 16, 1.	1.1	78
814	Dysbindin-1 and Its Protein Family. , 2009, , 107-241.		45
815	Development of the Auditory Cortex. , 2011, , 443-463.		7
816	Modulation of Long-Term Potentiation of Excitatory Synaptic Transmission in the Spinal Cord Dorsal Horn. , 2009, , 219-254.		2

#	ARTICLE	IF	CITATIONS
817	Pathophysiology of Mood Disorders and Mechanisms of Action of Antidepressants and Mood Stabilizers. , 2013, , 103-134.		2
818	Traveling Waves in One-Dimensional Excitable Media. Lecture Notes on Mathematical Modelling in the Life Sciences, 2014, , 63-99.	0.1	9
819	Calcium Waves and Sparks. Lecture Notes on Mathematical Modelling in the Life Sciences, 2014, , 137-181.	0.1	1
820	Waves in Excitable Neural Fields. Lecture Notes on Mathematical Modelling in the Life Sciences, 2014, , 271-318.	0.1	3
821	Calcium Dynamics and Synaptic Plasticity. Advances in Experimental Medicine and Biology, 2020, 1131, 965-984.	0.8	51
822	A Continuous-Time Spiking Neural Network Paradigm. Smart Innovation, Systems and Technologies, 2015, , 49-60.	0.5	9
823	Modulation of Functional Connectivity with Transcranial Direct Current Stimulation. , 2012, , 133-144.		3
824	rTMS Ameliorates PTSD Symptoms in Rats by Enhancing Glutamate Transmission and Synaptic Plasticity in the ACC via the PTEN/Akt Signalling Pathway. Molecular Neurobiology, 2018, 55, 3946-3958.	1.9	15
825	Effect of sildenafil on neuroinflammation and synaptic plasticity pathways in experimental autoimmune encephalomyelitis. International Immunopharmacology, 2020, 85, 106581.	1.7	8
826	Emotion in motion: A three-stage model of aversive classical conditioning. Neuroscience and Biobehavioral Reviews, 2020, 115, 363-377.	2.9	9
828	From Matter to Life. , 2017, , .		21
830	Application of Transcranial Electric Stimulation (tDCS, tACS, tRNS). European Psychologist, 2016, 21, 4-14.	1.8	32
834	Structure, Function, and Pharmacology of Glutamate Receptor Ion Channels. Pharmacological Reviews, 2021, 73, 1469-1658.	7.1	237
835	Electroacupuncture Attenuates CFA-Induced Inflammatory Pain by Regulating CaMKII. Neural Plasticity, 2020, 2020, 1-12.	1.0	16
836	Astrocyte-mediated spike-timing-dependent long-term depression modulates synaptic properties in the developing cortex. PLoS Computational Biology, 2020, 16, e1008360.	1.5	18
837	Tracking the Fragile X Mental Retardation Protein in a Highly Ordered Neuronal Ribonucleoprotein Population: A Link between Stalled Polyribosomes and RNA Granules. PLoS Genetics, 2016, 12, e1006192.	1.5	80
838	Muscarinic and Nicotinic Modulation of Thalamo-Prefrontal Cortex Synaptic Plasticity In Vivo. PLoS ONE, 2012, 7, e47484.	1.1	22
839	Structural Mechanism of N-Methyl-D-Aspartate Receptor Type 1 Partial Agonism. PLoS ONE, 2012, 7, e47604.	1.1	16

#	ARTICLE	IF	CITATIONS
840	Fear Extinction as a Model for Synaptic Plasticity in Major Depressive Disorder. PLoS ONE, 2014, 9, e115280.	1.1	42
841	PATH MULTIMODALITY IN A FEEDFORWARD SNN MODULE, USING LIF WITH LATENCY MODEL. Neural Network World, 2016, 26, 363-376.	0.5	5
842	Response Adaptation in Barrel Cortical Neurons Facilitates Stimulus Detection during Rhythmic Whisker Stimulation in Anesthetized Mice. ENeuro, 2019, 6, ENEURO.0471-18.2019.	0.9	4
843	Afghan Chehelghoza (Pinus gerardiana L.) Pine Nut Diet Enhances the Learning and Memory in Male Rats. Nutrition and Dietary Supplements, 0, Volume 12, 277-288.	0.7	7
844	Glutamate Neurotransmission in Psychotic Disorders and Substance Abuse. The Open Psychiatry Journal, 2009, 3, 1-8.	0.2	8
845	Somatosensory Modulation of Salivary Gene Expression and Oral Feeding in Preterm Infants: Randomized Controlled Trial. JMIR Research Protocols, 2017, 6, e113.	0.5	10
846	Cellular and molecular mechanisms in the long-term action of antidepressants.. Dialogues in Clinical Neuroscience, 2008, 10, 385-400.	1.8	128
847	Homeostatic Modulation of Stimulation-Dependent Plasticity in Human Motor Cortex. Physiological Research, 2011, 60, S107-S112.	0.4	16
848	Pregnenolone Sulfate Activates NMDA Receptor Channels. Physiological Research, 2013, 62, 731-736.	0.4	17
849	Involvement of Secretin in the Control of Cell Survival and Synaptic Plasticity in the Central Nervous System. Frontiers in Neuroscience, 2020, 14, 387.	1.4	4
850	Impaired Potentiation of Theta Oscillations During a Visual Cortical Plasticity Paradigm in Individuals With Schizophrenia. Frontiers in Psychiatry, 2020, 11, 590567.	1.3	16
851	Glutamatergic Dysfunction and Synaptic Ultrastructural Alterations in Schizophrenia and Autism Spectrum Disorder: Evidence from Human and Rodent Studies. International Journal of Molecular Sciences, 2021, 22, 59.	1.8	29
852	mTOR signaling in proteostasis and its relevance to autism spectrum disorders. AIMS Biophysics, 2017, 4, 63-89.	0.3	1
853	Headmasters: Microglial regulation of learning and memory in health and disease. AIMS Molecular Science, 2018, 5, 63-89.	0.3	5
854	High-frequency (50 Hz) electroacupuncture ameliorates cognitive impairment in rats with amyloid beta 1â€“42-induced Alzheimer's disease. Neural Regeneration Research, 2018, 13, 1833.	1.6	35
855	A mathematical model of synaptotagmin 7 revealing functional importance of short-term synaptic plasticity. Neural Regeneration Research, 2019, 14, 621.	1.6	3
856	Combined effect of repetitive transcranial magnetic stimulation and physical exercise on cortical plasticity. Neural Regeneration Research, 2020, 15, 1986.	1.6	22
857	Neurociencias, educaciÃ³n y entorno sociocultural. EducaciÃ³n Y Educadores, 2016, 19, 395-415.	0.8	25

#	ARTICLE	IF	CITATIONS
858	Clinical, Research and Treatment Approaches to Affective Disorders. , 2012, , .		2
859	Mild Traumatic Brain Injury of Tau.P301L Mice Results in an Impairment of Neural Plasticity. Archives of Neuroscience, 2016, 3, .	0.1	3
860	Influence of synaptic plasticity on dynamics of neural mass model¼š bifurcation study. Wuli Xuebao/Acta Physica Sinica, 2014, 63, 140503.	0.2	5
861	Endocannabinoid dynamics gate spike-timing dependent depression and potentiation. ELife, 2016, 5, e13185.	2.8	54
862	Cell-specific synaptic plasticity induced by network oscillations. ELife, 2016, 5, .	2.8	35
863	Adaptive learning and decision-making under uncertainty by metaplastic synapses guided by a surprise detection system. ELife, 2016, 5, .	2.8	39
864	Neuromodulation of Hippocampal-Prefrontal Cortical Synaptic Plasticity and Functional Connectivity: Implications for Neuropsychiatric Disorders. Frontiers in Cellular Neuroscience, 2021, 15, 732360.	1.8	27
865	The Na ⁺ -activated K ⁺ channel Slack contributes to synaptic development and plasticity. Cellular and Molecular Life Sciences, 2021, 78, 7569-7587.	2.4	4
866	Solutionâ€Processed Perovskite Fieldâ€Effect Transistor Artificial Synapses. Advanced Materials, 2021, 33, e2104034.	11.1	36
867	Rho Signaling in Synaptic Plasticity, Memory, and Brain Disorders. Frontiers in Cell and Developmental Biology, 2021, 9, 729076.	1.8	23
868	Astrocytes Render Memory Flexible by Releasing D-Serine and Regulating NMDA Receptor Tone in the Hippocampus. Biological Psychiatry, 2022, 91, 740-752.	0.7	30
869	Visuo-Acoustic Stimulationâ€™s Role in Synaptic Plasticity: A Review of the Literature. International Journal of Molecular Sciences, 2021, 22, 10783.	1.8	3
870	Neurogranin and Neuronal Pentraxin Receptor as Synaptic Dysfunction Biomarkers in Alzheimerâ€™s Disease. Journal of Clinical Medicine, 2021, 10, 4575.	1.0	9
871	Neuroigin-3: A Circuit-Specific Synapse Organizer That Shapes Normal Function and Autism Spectrum Disorder-Associated Dysfunction. Frontiers in Molecular Neuroscience, 2021, 14, 749164.	1.4	28
872	Modulating Neuroplasticity: Lessons Learned from Antidepressants and Emerging Novel Therapeutics. Current Treatment Options in Psychiatry, 2021, 8, 229-257.	0.7	1
873	Mimicking Neuroplasticity via Ion Migration in van der Waals Layered Copper Indium Thiophosphate. Advanced Materials, 2022, 34, e2104676.	11.1	46
874	High-speed Si films based threshold switching device and its artificial neuron application. Applied Physics Letters, 2021, 119, .	1.5	13
875	Hormetic and Non-Hormetic Dose-Response Functions in Stress Effects on Memory and Synaptic Plasticity: Issues and Mechanisms. American Journal of Pharmacology and Toxicology, 2008, 3, 111-124.	0.7	3

#	ARTICLE	IF	CITATIONS
876	Rho-Linked Mental Retardation Genes. <i>Advances in Neurobiology</i> , 2011, , 213-241.	1.3	0
877	Effect of iontophoretically administered L-DOPA and ketamin on the impulse activity of the somatomotor cortex neurons during the conditioned placing movements. <i>Fiziologichnyi Zhurnal (Kiev, Ukraine: 1994)</i> , 2010, 56, 12-21.	0.1	0
880	Adenosinergic Perspectives on Schizophrenia: Opportunity for an Integrative Synthesis. , 2013, , 459-491.		0
881	Endocannabinoid-Mediated Synaptic Plasticity. , 2013, , 11-24.		0
883	Population Models and Neural Fields. <i>Lecture Notes on Mathematical Modelling in the Life Sciences</i> , 2014, , 233-269.	0.1	0
884	Waves in Synaptically Coupled Spiking Networks. <i>Lecture Notes on Mathematical Modelling in the Life Sciences</i> , 2014, , 185-231.	0.1	0
885	Waves in the Developing and the Diseased Brain. <i>Lecture Notes on Mathematical Modelling in the Life Sciences</i> , 2014, , 349-404.	0.1	0
886	Neural Field Model of Binocular Rivalry Waves. <i>Lecture Notes on Mathematical Modelling in the Life Sciences</i> , 2014, , 319-345.	0.1	2
887	Synaptic Stress, Changes in Glutamate Transmission and Circuitry, and Psychopathology. , 2014, , 33-52.		1
888	The Role of Peri-synaptic GABA Receptors After Stroke. <i>Receptors</i> , 2014, , 179-205.	0.2	1
889	Acute Stress Disrupts Short- and Long-Term Patterns of Synaptic Plasticity in Dorsal Hippocampus and Subiculum: Implications for Hippocampal Output and Behaviour. , 2014, , 183-201.		0
890	Neurobiological Bases of Learning and Their Role for the Paradigm Shift in Education. <i>Psychology</i> , 2015, 06, 1741-1749.	0.3	5
893	Glutamaterges System. <i>Springer-Lehrbuch</i> , 2016, , 135-139.	0.1	0
894	Ethnopharmacological Importance of Western Medicinal Herb, <i>Scutellaria lateriflora</i> . , 2016, , 37-72.		1
895	A Review of the Relationship between Mild Traumatic Brain Injury, Post-Traumatic Stress Disorder, and Temporomandibular Disorder. <i>International Journal of Dentistry and Oral Health</i> , 2016, 2, .	0.0	0
896	Sense and antisense Oligodeoxynucleotides to Glun1 Nmdar are Cognitive Enhancers (Nootropics) and protective agents in normal and ischemic (Anoxic) conditions-In vitro study. , 2017, 1, 013-023.		0
897	Exciting experiences make neurons less excitable. <i>ELife</i> , 2017, 6, .	2.8	1
899	Modulation of the Core Neural Network in Stress: The Role of Endocannabinoids and LTD. , 2018, , 125-161.		0

#	ARTICLE	IF	CITATIONS
900	Enhanced AMPA Receptor Trafficking Mediates the Anorexigenic Effect of Endogenous Glucagon Like Peptide-1 in the Paraventricular Hypothalamus. SSRN Electronic Journal, 0, , .	0.4	1
902	Are Sensory Neurons in the Cortex Committed to Original Trigger Features?. , 0, , .		0
904	Neurophysiologic Advance in Depressive Disorder. Advances in Experimental Medicine and Biology, 2019, 1180, 99-116.	0.8	1
913	Cannabis points to the synaptic pathology of mental disorders: how aberrant synaptic components disrupt the highest psychological functions. Dialogues in Clinical Neuroscience, 2020, 22, 251-258.	1.8	5
914	The decoy SNARE Tomosyn sets tonic versus phasic release properties and is required for homeostatic synaptic plasticity. ELife, 2021, 10, .	2.8	18
915	All-trans retinoic acid induces synaptopodin-dependent metaplasticity in mouse dentate granule cells. ELife, 2021, 10, .	2.8	11
916	Chronic stimulation of the serotonergic 5-HT4 receptor modulates amyloid-beta-related impairments in synaptic plasticity and memory deficits in male rats. Brain Research, 2021, 1773, 147701.	1.1	3
917	Neurobiological Principles: Neurotransmitters. , 2020, , 1-21.		3
918	Placing Human Learning and Memory in a Broad Context. , 2020, , 61-77.		0
919	Modern Integrative Biology and Learning and Memory Processes. , 2020, , 13-26.		0
920	The Transmitters. , 2021, , 69-100.		0
921	Introduction to a Special Issue: Alcohol and Neural Plasticity. Brain Plasticity, 2020, 6, 1-4.	1.9	0
922	Antibiotic-induced gut dysbiosis leads to activation of microglia and impairment of cholinergic gamma oscillations in the hippocampus. Brain, Behavior, and Immunity, 2022, 99, 203-217.	2.0	21
926	Glutamaterges System. , 2020, , 143-147.		0
927	Mechanisms of the Pharmacological Modulation of Obsessive-Compulsive and Cognitive Disorders in Cats Recognized by the Method of Normalizing FFT-Convertible Functions of Electrograms of the Frontal Cortex and Hippocampus. Journal Biomed, 2020, 16, 12-27.	0.1	3
928	STSP model with neuron - glial interaction produced bursting activity. , 2021, , .		7
930	Microbes, metabolites and (synaptic) malleability, oh my! <sc>T</sc>he effect of the microbiome on synaptic plasticity. Biological Reviews, 2022, 97, 582-599.	4.7	13
931	Modulation of Functional Connectivity with Transcranial Direct Current Stimulation. , 2012, , 133-144.		1

#	ARTICLE	IF	CITATIONS
936	A new treatment for cognitive disorders related to in utero exposure to alcohol. <i>Neural Regeneration Research</i> , 2013, 8, 1702-13.	1.6	2
937	Role of Wnt signaling in synaptic plasticity and memory. <i>Neurobiology of Learning and Memory</i> , 2022, 187, 107558.	1.0	16
938	Human cytomegalovirus IE2 may impair the cognitive ability of the hippocampus through the GluNRs/CaMKII β /CREB signaling pathway in the Rosa26-LSL-IE2/Cre mouse. <i>Behavioural Brain Research</i> , 2022, 419, 113683.	1.2	3
939	Neonatal NMDA blockade alters the LTP, LTD and cognitive functions in male and female Wistar rats. <i>Neuropharmacology</i> , 2022, 205, 108896.	2.0	7
940	Dose- and sex-dependent effects of phlebotomy-induced anemia on the neonatal mouse hippocampal transcriptome. <i>Pediatric Research</i> , 2022, 92, 712-720.	1.1	7
941	Nanoscale Sub-Compartmentalization of the Dendritic Spine Compartment. <i>Biomolecules</i> , 2021, 11, 1697.	1.8	6
942	Mechanistic insight into sevoflurane-associated developmental neurotoxicity. <i>Cell Biology and Toxicology</i> , 2022, 38, 927-943.	2.4	25
944	Rett Syndrome and Fragile X Syndrome: Different Etiology With Common Molecular Dysfunctions. <i>Frontiers in Cellular Neuroscience</i> , 2021, 15, 764761.	1.8	12
945	Three decades of Cdk5. <i>Journal of Biomedical Science</i> , 2021, 28, 79.	2.6	52
946	Brain is modulated by neuronal plasticity during postnatal development. <i>Journal of Physiological Sciences</i> , 2021, 71, 34.	0.9	12
947	Synaptic plasticity mechanisms behind TMS efficacy: insights from its application to animal models. <i>Journal of Neural Transmission</i> , 2022, 129, 25-36.	1.4	10
948	Emphasizing roles of BDNF promoters and inducers in Alzheimer's disease for improving impaired cognition and memory. <i>Journal of Basic and Clinical Physiology and Pharmacology</i> , 2023, 34, 125-136.	0.7	7
949	Decreased Plasma Hydrogen Sulfide Level Is Associated With the Severity of Depression in Patients With Depressive Disorder. <i>Frontiers in Psychiatry</i> , 2021, 12, 765664.	1.3	7
950	Bird-Inspired Self-Navigating Artificial Synaptic Compass. <i>ACS Nano</i> , 2021, 15, 20116-20126.	7.3	12
951	Computational benefits of structural plasticity, illustrated in songbirds. <i>Neuroscience and Biobehavioral Reviews</i> , 2022, 132, 1183-1196.	2.9	0
953	Neuropeptides and Behaviors: How Small Peptides Regulate Nervous System Function and Behavioral Outputs. <i>Frontiers in Molecular Neuroscience</i> , 2021, 14, 786471.	1.4	15
954	MTORC1 signaling as a biomarker in major depressive disorder and its pharmacological modulation by novel rapid-acting antidepressants. <i>Therapeutic Advances in Psychopharmacology</i> , 2021, 11, 204512532110368.	1.2	7
955	Hypothermia promotes synaptic plasticity and protective effects in neurological diseases. <i>Brain Circulation</i> , 2021, 7, 294.	0.7	6

#	ARTICLE	IF	CITATIONS
956	Regulation of Metabotropic Glutamate Receptor Internalization and Synaptic AMPA Receptor Endocytosis by the Postsynaptic Protein Norbin. <i>Journal of Neuroscience</i> , 2022, 42, 731-748.	1.7	10
958	Concentration of stimulant regulates initial exocytotic molecular plasticity at single cells. <i>Chemical Science</i> , 2022, 13, 1815-1822.	3.7	5
959	What Have We Learned (or Expect to) From Analysis of Murine Genetic Models Related to Substance Use Disorders?. <i>Frontiers in Psychiatry</i> , 2021, 12, 793961.	1.3	2
960	AMPA Receptor Function in Hypothalamic Synapses. <i>Frontiers in Synaptic Neuroscience</i> , 2022, 14, 833449.	1.3	7
961	Grid-graph modeling of emergent neuromorphic dynamics and heterosynaptic plasticity in memristive nanonetworks. <i>Neuromorphic Computing and Engineering</i> , 2022, 2, 014007.	2.8	10
962	Dendritic Excitability and Synaptic Plasticity In Vitro and In Vivo. <i>Neuroscience</i> , 2022, 489, 165-175.	1.1	9
963	Effects of early life adversity on immediate early gene expression: Systematic review and 3-level meta-analysis of rodent studies. <i>PLoS ONE</i> , 2022, 17, e0253406.	1.1	3
964	Transcriptional programs regulating neuronal differentiation are disrupted in DLG2 knockout human embryonic stem cells and enriched for schizophrenia and related disorders risk variants. <i>Nature Communications</i> , 2022, 13, 27.	5.8	8
965	Two-dimensional materials for artificial synapses: toward a practical application. <i>Neuromorphic Computing and Engineering</i> , 2022, 2, 012003.	2.8	7
966	Noninvasive electrical and magnetic brain stimulation (with insights on the effects of cellular) Tj ETQq1 1 0.784314 rgBT /Overlock 10		
967	Communication Theoretical Modeling and Analysis of Tripartite Synapses With Astrocytes in Synaptic Molecular Communication. <i>IEEE Transactions on Molecular, Biological, and Multi-Scale Communications</i> , 2022, 8, 169-177.	1.4	1
968	Two-dimensional reconfigurable electronics enabled by asymmetric floating gate. <i>Nano Research</i> , 2022, 15, 4439-4447.	5.8	6
969	Impaired spatial memory in adult vitamin D deficient BALB/c mice is associated with reductions in spine density, nitric oxide, and neural nitric oxide synthase in the hippocampus. <i>AIMS Neuroscience</i> , 2022, 9, 31-56.	1.0	3
971	Bipolar disorder and plasticity: a key target for new treatment. , 2022, , 439-457.		0
972	Y2O3-based Memristive Crossbar Array for Synaptic Learning. <i>Journal Physics D: Applied Physics</i> , 0, , .	1.3	2
973	Transsynaptic Long-Term Potentiation in the Hippocampus of Behaving Mice. <i>Frontiers in Synaptic Neuroscience</i> , 2021, 13, 811806.	1.3	1
974	Memristive devices based on single ZnO nanowiresâ€”from material synthesis to neuromorphic functionalities. <i>Semiconductor Science and Technology</i> , 2022, 37, 034002.	1.0	7
975	Amorphous InGaZnO (a-IGZO) Synaptic Transistor for Neuromorphic Computing. <i>ACS Applied Electronic Materials</i> , 2022, 4, 1427-1448.	2.0	39

#	ARTICLE	IF	CITATIONS
976	Non-invasive transcranial ultrasound stimulation for neuromodulation. <i>Clinical Neurophysiology</i> , 2022, 135, 51-73.	0.7	87
977	Nanocomposite parylene-C memristors with embedded Ag nanoparticles for biomedical data processing. <i>Organic Electronics</i> , 2022, 102, 106455.	1.4	14
978	A Simplified Plasticity Model Based on Synaptic Tagging and Capture Theory: Simplified STC. <i>Frontiers in Computational Neuroscience</i> , 2021, 15, 798418.	1.2	2
979	Connexin 43: insights into candidate pathological mechanisms of depression and its implications in antidepressant therapy. <i>Acta Pharmacologica Sinica</i> , 2022, 43, 2448-2461.	2.8	7
980	Beating pain with psychedelics: Matter over mind?. <i>Neuroscience and Biobehavioral Reviews</i> , 2022, 134, 104482.	2.9	14
981	Neurodegenerative diseases: model organisms, pathology and autophagy. <i>Journal of Genetics</i> , 2018, 97, 679-701.	0.4	8
982	Ion channels and neuronal excitability in polyglutamine neurodegenerative diseases. <i>Biomolecular Concepts</i> , 2022, 13, 183-199.	1.0	0
983	Epileptic seizures and link to memory processes. <i>AIMS Neuroscience</i> , 2022, 9, 114-127.	1.0	7
984	EEG based analysis of lower limb exercise for neurorehabilitation according to the linkage between motor execution and visual feedback in immersive VR: A feasibility study with healthy adults. , 2022, ,		0
985	Virtual Reality Assisted Motor Imagery for Early Post-Stroke Recovery: A Review. <i>IEEE Reviews in Biomedical Engineering</i> , 2023, 16, 487-498.	13.1	8
986	Utilizing an SWCNT-TFT "Electronic Hourglass" for Artificial Synapse Application. <i>ACS Applied Electronic Materials</i> , 2022, 4, 974-981.	2.0	2
987	Heterogeneous Responses to Changes in Inhibitory Synaptic Strength in Networks of Spiking Neurons. <i>Frontiers in Cellular Neuroscience</i> , 2022, 16, 785207.	1.8	1
988	Excitation and Inhibition Imbalance in Rett Syndrome. <i>Frontiers in Neuroscience</i> , 2022, 16, 825063.	1.4	12
989	Common network effect-patterns after monoamine reuptake inhibition in dissociated hippocampus cultures. <i>Journal of Neural Transmission</i> , 2022, 129, 261-275.	1.4	1
990	Accommodative and pupillary dysfunctions in concussion/mild traumatic brain injury: A Review. <i>NeuroRehabilitation</i> , 2022, 50, 261-278.	0.5	6
991	Changes in the excitability of primary hippocampal neurons following exposure to 3.0 GHz radiofrequency electromagnetic fields. <i>Scientific Reports</i> , 2022, 12, 3506.	1.6	4
992	Phase-change memtransistive synapses for mixed-plasticity neural computations. <i>Nature Nanotechnology</i> , 2022, 17, 507-513.	15.6	50
993	Flexible neuromorphic electronics based on low-dimensional materials. <i>Science China Materials</i> , 2022, 65, 2154-2159.	3.5	5

#	ARTICLE	IF	CITATIONS
994	Organization of Presynaptic Autophagy-Related Processes. <i>Frontiers in Synaptic Neuroscience</i> , 2022, 14, 829354.	1.3	10
995	Single-vesicle Electrochemistry Following Repetitive Stimulation Reveals a Mechanism for Plasticity Changes with Iron Deficiency. <i>Angewandte Chemie</i> , 0, , .	1.6	0
996	A feedback control principle common to several biological and engineered systems. <i>Journal of the Royal Society Interface</i> , 2022, 19, 20210711.	1.5	4
998	Associations between cerebrospinal fluid markers and cognition in ageing and dementia: A systematic review. <i>European Journal of Neuroscience</i> , 2022, 56, 5650-5713.	1.2	4
999	Structural Plasticity of the Hippocampus in Neurodegenerative Diseases. <i>International Journal of Molecular Sciences</i> , 2022, 23, 3349.	1.8	34
1000	Reactive Oxygen Species: Angels and Demons in the Life of a Neuron. <i>NeuroSci</i> , 2022, 3, 130-145.	0.4	23
1001	Dysregulation of adult hippocampal neuroplasticity in major depression: pathogenesis and therapeutic implications. <i>Molecular Psychiatry</i> , 2022, 27, 2689-2699.	4.1	90
1002	Single-vesicle Electrochemistry Following Repetitive Stimulation Reveals a Mechanism for Plasticity Changes with Iron Deficiency. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	11
1003	Sensorimotor effects of plasticity-inducing percutaneous peripheral nerve stimulation protocols: a blinded, randomized clinical trial. <i>European Journal of Pain</i> , 2022, 26, 1039-1055.	1.4	3
1004	Postnatal GABAA Receptor Activation Alters Synaptic Plasticity and Cognition in Adult Wistar Rats. <i>Molecular Neurobiology</i> , 2022, , 1.	1.9	2
1005	GHS-R1a activity suppresses synaptic function of primary cultured hippocampal neurons. <i>Biochemical and Biophysical Research Communications</i> , 2022, 602, 91-97.	1.0	0
1006	Inkjet-Printed Ag/a-TiO ₂ /Ag Neuromorphic Nanodevice Based on Functionalized Ink. <i>Advanced Engineering Materials</i> , 2022, 24, .	1.6	5
1007	Melatonin improves cognitive function by suppressing endoplasmic reticulum stress and promoting synaptic plasticity during chronic cerebral hypoperfusion in rats. <i>Biochemical Pharmacology</i> , 2022, 198, 114980.	2.0	29
1009	Decoding the Synaptic Proteome with Long-Term Exposure to Midazolam during Early Development. <i>International Journal of Molecular Sciences</i> , 2022, 23, 4137.	1.8	5
1010	Dynamic resistive switching devices for neuromorphic computing. <i>Semiconductor Science and Technology</i> , 2022, 37, 024003.	1.0	12
1011	Impairments of Long-Term Synaptic Plasticity in the Hippocampus of Young Rats during the Latent Phase of the Lithium-Pilocarpine Model of Temporal Lobe Epilepsy. <i>International Journal of Molecular Sciences</i> , 2021, 22, 13355.	1.8	16
1012	Neuronal exposure induces neurotransmitter signaling and synaptic mediators in tumors early in brain metastasis. <i>Neuro-Oncology</i> , 2022, 24, 914-924.	0.6	6
1014	Transcranial Direct-Current Stimulation and Behavioral Training, a Promising Tool for a Tailor-Made Post-stroke Aphasia Rehabilitation: A Review. <i>Frontiers in Human Neuroscience</i> , 2021, 15, 742136.	1.0	8

#	ARTICLE	IF	CITATIONS
1015	Computational Modelling of Synaptic Plasticity: A review of models, parameter estimation using deep learning, and stochasticity. , 2021, , .		0
1016	Organic Synaptic Transistors for Bio-Hybrid Neuromorphic Electronics. Advanced Electronic Materials, 2022, 8, .	2.6	31
1017	Kalirin as a Novel Treatment Target for Cognitive Dysfunction in Schizophrenia. CNS Drugs, 2022, 36, 1-16.	2.7	8
1018	Homocysteine can aggravate depressive like behaviors in a middle cerebral artery occlusion/reperfusion rat model: a possible role for NMDARs-mediated synaptic alterations. Nutritional Neuroscience, 2023, 26, 483-495.	1.5	6
1019	Unveiling the effect of <i>Withania somnifera</i> on neuronal cytoarchitecture and synaptogenesis: A combined <i>in vitro</i> and network pharmacology approach. Phytotherapy Research, 2022, 36, 2524-2541.	2.8	3
1020	Synaptic Plasticity Dysfunctions in the Pathophysiology of 22q11 Deletion Syndrome: Is There a Role for Astrocytes?. International Journal of Molecular Sciences, 2022, 23, 4412.	1.8	8
1021	Gradient-Free Neural Network Training via Synaptic-Level Reinforcement Learning. AppliedMath, 2022, 2, 185-195.	0.3	1
1023	Dopamine as a Potential Target for Learning and Memory: Contributing to Related Neurological Disorders. CNS and Neurological Disorders - Drug Targets, 2023, 22, 558-576.	0.8	9
1024	Neurodevelopmental Disorders Associated with PSD-95 and Its Interaction Partners. International Journal of Molecular Sciences, 2022, 23, 4390.	1.8	23
1025	Synaptic plasticity and depression: the role of miRNAs dysregulation. Molecular Biology Reports, 2022, 49, 9759-9765.	1.0	11
1026	A New Player in Depression: MiRNAs as Modulators of Altered Synaptic Plasticity. International Journal of Molecular Sciences, 2022, 23, 4555.	1.8	13
1043	Intracellular and extracellular cyclic GMP in the brain and the hippocampus. Vitamins and Hormones, 2022, 118, 247-288.	0.7	1
1044	Life extension factor klotho regulates behavioral responses to stress via modulation of GluN2B function in the nucleus accumbens. Neuropsychopharmacology, 2022, 47, 1710-1720.	2.8	8
1046	A flexible dual-gate hetero-synaptic transistor for spatiotemporal information processing. Nanoscale Advances, 2022, 4, 2412-2419.	2.2	13
1047	Stable Lifelong Learning: Spiking neurons as a solution to instability in plastic neural networks. , 2022, , .		4
1048	Neuronal pentraxin-2 (NPTX2) serum levels during an acute psychotic episode in patients with schizophrenia. Psychopharmacology, 2022, 239, 2585-2591.	1.5	2
1049	Long-Term Potentiation-Like Visual Synaptic Plasticity Is Negatively Associated With Self-Reported Symptoms of Depression and Stress in Healthy Adults. Frontiers in Human Neuroscience, 2022, 16, .	1.0	2
1050	Enhancing GluN2A-type NMDA receptors impairs long-term synaptic plasticity and learning and memory. Molecular Psychiatry, 2022, 27, 3468-3478.	4.1	13

#	ARTICLE	IF	CITATIONS
1051	Cultural Explanations of Infectious Disease. <i>Advances in Medical Diagnosis, Treatment, and Care</i> , 2022, , 29-57.	0.1	0
1052	Mechanisms for Cognitive Impairment in Epilepsy: Moving Beyond Seizures. <i>Frontiers in Neurology</i> , 2022, 13, .	1.1	7
1053	Spontaneous dynamics of synaptic weights in stochastic models with pair-based spike-timing-dependent plasticity. <i>Physical Review E</i> , 2022, 105, .	0.8	1
1054	On The Biophysical Complexity of Brain Dynamics: An Outlook. <i>Dynamics</i> , 2022, 2, 114-148.	0.5	5
1055	The role of astrocyte structural plasticity in regulating neural circuit function and behavior. <i>Glia</i> , 2022, 70, 1467-1483.	2.5	33
1056	Early life GABAA blockade alters the synaptic plasticity and cognitive functions in male and female rats. <i>European Journal of Pharmacology</i> , 2022, 925, 174992.	1.7	3
1057	Artificial Neural Pathway Based on a Memristor Synapse for Optically Mediated Motion Learning. <i>ACS Nano</i> , 2022, 16, 9691-9700.	7.3	47
1058	A Survey on Neuromorphic Computing: Models and Hardware. <i>IEEE Circuits and Systems Magazine</i> , 2022, 22, 6-35.	2.6	19
1059	Problematic Internet Use in Adolescent Psychosocial and Physiological Development. , 2022, , .		0
1060	Memristive brain-like computing. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2022, 71, 140501.	0.2	1
1062	Molecular encoding and synaptic decoding of context during salt chemotaxis in <i>C. elegans</i> . <i>Nature Communications</i> , 2022, 13, .	5.8	16
1063	The Specific Mechanism of TREM2 Regulation of Synaptic Clearance in Alzheimer's Disease. <i>Frontiers in Immunology</i> , 2022, 13, .	2.2	8
1064	Neurotrophin Signaling Impairment by Viral Infections in the Central Nervous System. <i>International Journal of Molecular Sciences</i> , 2022, 23, 5817.	1.8	10
1067	Learning, fast and slow. <i>Current Opinion in Neurobiology</i> , 2022, 75, 102555.	2.0	13
1068	Interrogating structural plasticity among synaptic engrams. <i>Current Opinion in Neurobiology</i> , 2022, 75, 102552.	2.0	8
1070	Electroacupuncture of the Baihui and Shenting acupoints for vascular dementia in rats through the miR-81/IL-16/PSD-95 pathway. <i>Annals of Translational Medicine</i> , 2022, 10, 540-540.	0.7	7
1076	Neuroplasticity. , 2022, , 1-30.		2
1077	Progress in the mechanism of neuronal surface P antigen modulating hippocampal function and implications for autoimmune brain disease. <i>Current Opinion in Neurology</i> , 2022, 35, 436-442.	1.8	1

#	ARTICLE	IF	CITATIONS
1078	Opioid Receptor-Mediated Regulation of Neurotransmission in the Brain. <i>Frontiers in Molecular Neuroscience</i> , 0, 15, .	1.4	34
1079	Humidity-Enabled Organic Artificial Synaptic Devices with Ultrahigh Moisture Resistivity. <i>Advanced Electronic Materials</i> , 2022, 8, .	2.6	6
1080	SIRT1, MMP-9 and TIMP-1 levels in children with specific learning disorder. <i>Journal of Psychiatric Research</i> , 2022, 152, 352-359.	1.5	2
1081	Outcomes from an interprofessional curriculum on trauma-informed care among pediatric service providers. <i>Journal of Interprofessional Care</i> , 2023, 37, 288-299.	0.8	5
1082	Complex Oxides for Brain-Inspired Computing: A Review. <i>Advanced Materials</i> , 2023, 35, .	11.1	17
1083	MicroRNAs and Synaptic Plasticity: From Their Molecular Roles to Response to Therapy. <i>Molecular Neurobiology</i> , 2022, 59, 5084-5102.	1.9	7
1084	Calcineurin requirement for in vivo insular cortex LTD and CTA-extinction. <i>Neurobiology of Learning and Memory</i> , 2022, 193, 107647.	1.0	0
1085	Evolving Dual-Threshold Bienenstock-Cooper-Munro Learning Rules in Echo State Networks. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2024, 35, 1572-1583.	7.2	2
1086	Adenosine and Astrocytes Determine the Developmental Dynamics of Spike Timing-Dependent Plasticity in the Somatosensory Cortex. <i>Journal of Neuroscience</i> , 2022, 42, 6038-6052.	1.7	12
1087	Neuromorphic Skin Based on Emerging Artificial Synapses. <i>Advanced Materials Technologies</i> , 2022, 7, .	3.0	11
1088	How synaptic plasticity affects the stochastic resonance in a modular neuronal network. <i>Nonlinear Dynamics</i> , 2022, 110, 791-802.	2.7	5
1089	Selective Ablation of <i>Sod2</i> in Astrocytes Induces Sex-Specific Effects on Cognitive Function, d-Serine Availability, and Astroglia. <i>Journal of Neuroscience</i> , 2022, 42, 5992-6006.	1.7	8
1090	Telocytes' Role in Modulating Gut Motility Function and Development: Medical Hypotheses and Literature Review. <i>International Journal of Molecular Sciences</i> , 2022, 23, 7017.	1.8	5
1091	Strong and reliable synaptic communication between pyramidal neurons in adult human cerebral cortex. <i>Cerebral Cortex</i> , 2023, 33, 2857-2878.	1.6	21
1092	Synaptic plasticity and mental health: methods, challenges and opportunities. <i>Neuropsychopharmacology</i> , 2023, 48, 113-120.	2.8	31
1093	Long-Duration Sound-Induced Facilitation Changes Population Activity in the Inferior Colliculus. <i>Frontiers in Systems Neuroscience</i> , 0, 16, .	1.2	2
1095	Neck Pain: Do We Know Enough About the Sensorimotor Control System?. <i>Frontiers in Computational Neuroscience</i> , 0, 16, .	1.2	5
1097	Upregulated Ca ²⁺ Release from the Endoplasmic Reticulum Leads to Impaired Presynaptic Function in Familial Alzheimer's Disease. <i>Cells</i> , 2022, 11, 2167.	1.8	3

#	ARTICLE	IF	CITATIONS
1098	Transcranial Direct Current Stimulation in Treatment of Child Neuropsychiatric Disorders: Ethical Considerations. <i>Frontiers in Human Neuroscience</i> , 0, 16, .	1.0	2
1099	Signalling pathways in autism spectrum disorder: mechanisms and therapeutic implications. <i>Signal Transduction and Targeted Therapy</i> , 2022, 7, .	7.1	45
1100	Molecular Mechanisms of Epilepsy: The Role of the Chloride Transporter KCC2. <i>Journal of Molecular Neuroscience</i> , 2022, 72, 1500-1515.	1.1	3
1101	Regulation of presynaptic Ca ²⁺ channel abundance at active zones through a balance of delivery and turnover. <i>ELife</i> , 0, 11, .	2.8	10
1102	Trans-Anethole Alleviates Trimethyltin Chloride-Induced Impairments in Long-Term Potentiation. <i>Pharmaceutics</i> , 2022, 14, 1422.	2.0	5
1103	Dysregulation of Synaptic Plasticity Markers in Schizophrenia. <i>Indian Journal of Clinical Biochemistry</i> , 2023, 38, 4-12.	0.9	2
1104	Synaptic Secretion and Beyond: Targeting Synapse and Neurotransmitters to Treat Neurodegenerative Diseases. <i>Oxidative Medicine and Cellular Longevity</i> , 2022, 2022, 1-22.	1.9	7
1105	BDNF Therapeutic Mechanisms in Neuropsychiatric Disorders. <i>International Journal of Molecular Sciences</i> , 2022, 23, 8417.	1.8	14
1106	SLIMOylation and Major Depressive Disorder. <i>International Journal of Molecular Sciences</i> , 2022, 23, 8023.	1.8	5
1107	Emulating synaptic plasticity in ionic liquid-gated zinc tin oxide neuromorphic transistor. <i>Journal of Materials Science: Materials in Electronics</i> , 2022, 33, 19985-19997.	1.1	2
1108	Dlg Is Required for Short-Term Memory and Interacts with NMDAR in the Drosophila Brain. <i>International Journal of Molecular Sciences</i> , 2022, 23, 9187.	1.8	0
1109	Perspective on Nanofluidic Memristors: From Mechanism to Application. <i>Chemistry - an Asian Journal</i> , 2022, 17, .	1.7	14
1110	NX210c Peptide Promotes Glutamatergic Receptor-Mediated Synaptic Transmission and Signaling in the Mouse Central Nervous System. <i>International Journal of Molecular Sciences</i> , 2022, 23, 8867.	1.8	1
1111	Exposure to static magnetic field facilitates selective attention and neuroplasticity in rats. <i>Brain Research Bulletin</i> , 2022, 189, 111-120.	1.4	1
1112	Translational neuronal ensembles: Neuronal microcircuits in psychology, physiology, pharmacology and pathology. <i>Frontiers in Systems Neuroscience</i> , 0, 16, .	1.2	3
1113	The synaptic lipidome in health and disease. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2022, 1864, 184033.	1.4	3
1115	Neuronal circuitry for recognition memory of object and place in rodent models. <i>Neuroscience and Biobehavioral Reviews</i> , 2022, 141, 104855.	2.9	30
1116	A systematic review on drugs for synaptic plasticity in the treatment of dementia. <i>Ageing Research Reviews</i> , 2022, 81, 101726.	5.0	6

#	ARTICLE	IF	CITATIONS
1117	Biological hypotheses, risk factors, and biomarkers of schizophrenia. Progress in Neuro-Psychopharmacology and Biological Psychiatry, 2023, 120, 110626.	2.5	26
1118	Estimating the Temporal Evolution of Synaptic Weights from Dynamic Functional Connectivity. Lecture Notes in Computer Science, 2022, , 3-14.	1.0	1
1119	Molecular Findings Guiding the Modulation of the Endocannabinoid System as a Potential Target to Treat Schizophrenia. Advances in Experimental Medicine and Biology, 2022, , 89-103.	0.8	3
1120	New Results from Brain Research and Neuroscience. , 2022, , 203-228.		0
1121	General Considerations for In Vivo Exploration of Synaptic Plasticity. Neuromethods, 2022, , 263-273.	0.2	0
1122	Glutamate. , 2022, , 91-107.		0
1123	Effects of prenatal THC exposure on the mesolimbic dopamine system: Unveiling an endophenotype of sensory information processing deficits. , 2022, , 107-128.		0
1124	Fragile X Syndrome Patient-Derived Neurons Developing in the Mouse Brain Show FMR1-Dependent Phenotypes. Biological Psychiatry, 2023, 93, 71-81.	0.7	1
1125	Adaptive control of synaptic plasticity integrates micro- and macroscopic network function. Neuropsychopharmacology, 2023, 48, 121-144.	2.8	8
1126	An Ultralow Power Li _x TiO ₂ -Based Synaptic Transistor for Scalable Neuromorphic Computing. Advanced Electronic Materials, 0, , 2200607.	2.6	3
1127	Spike Timing-Dependent Plasticity with Enhanced Long-Term Depression Leads to an Increase of Statistical Complexity. Entropy, 2022, 24, 1384.	1.1	0
1128	Animal evidence considered in determination of cannabis smoke and ⁹ THC tetrahydrocannabinol as causing reproductive toxicity (developmental endpoint): Part III. Proposed neurodevelopmental mechanisms of action. Birth Defects Research, 0, , .	0.8	0
1129	mRNA isoform balance in neuronal development and disease. Wiley Interdisciplinary Reviews RNA, 2023, 14, .	3.2	4
1130	The Edible Seaweed Gelidium amansii Promotes Structural Plasticity of Hippocampal Neurons and Improves Scopolamine-Induced Learning and Memory Impairment in Mice. CNS and Neurological Disorders - Drug Targets, 2022, 21, .	0.8	0
1132	Light-Emitting Artificial Synapses for Neuromorphic Computing. Research, 2022, 2022, .	2.8	2
1133	Selective connectivity enhances storage capacity in attractor models of memory function. Frontiers in Systems Neuroscience, 0, 16, .	1.2	1
1134	Aging in nucleus accumbens and its impact on alcohol use disorders. Alcohol, 2023, 107, 73-90.	0.8	2
1135	A revised calcium-dependent model of transcranial magnetic theta-burst stimulation. Clinical Neurophysiology, 2022, 144, 41-49.	0.7	2

#	ARTICLE	IF	CITATIONS
1136	Mitochondrial Ca ²⁺ uptake by the MCU facilitates pyramidal neuron excitability and metabolism during action potential firing. <i>Communications Biology</i> , 2022, 5, .	2.0	14
1137	Young plasma reverses anesthesia and surgery-induced cognitive impairment in aged rats by modulating hippocampal synaptic plasticity. <i>Frontiers in Aging Neuroscience</i> , 0, 14, .	1.7	3
1138	An Electrochemicalâ€Electret Coupled Organic Synapse with Singleâ€Polarity Driven Reversible Facilitationâ€toâ€Depression Switching. <i>Advanced Materials</i> , 2022, 34, .	11.1	6
1139	Therapeutic non-invasive brain treatments in Alzheimerâ€™s disease: recent advances and challenges. <i>Inflammation and Regeneration</i> , 2022, 42, .	1.5	20
1140	Abnormalities of Neural Microcircuits in Tourette Syndrome. , 2022, , 184-198.		0
1141	Targeting NMDA Receptors in Emotional Disorders: Their Role in Neuroprotection. <i>Brain Sciences</i> , 2022, 12, 1329.	1.1	7
1142	O-GlcNAc ç ³ –âŸ°â€–ä¿®éŸ°â€œçŸžç»â€è,2â€’EçŸžç»ç ³ »ç»Ÿç–3/4ç–...ä,çš,,ä½œç””. <i>Scientia Sinica Vitae</i> , 2022, , .	0.1	0
1143	HfO ₂ /WO ₃ Heterojunction Structured Memristor for Highâ€Density Storage and Neuromorphic Computing. <i>Advanced Materials Technologies</i> , 2023, 8, .	3.0	9
1144	Neurobiological mechanisms of mood disorders: Stress vulnerability and resilience. <i>Frontiers in Behavioral Neuroscience</i> , 0, 16, .	1.0	5
1146	Chimera states induced by spike timing-dependent plasticity in a regular neuronal network. <i>AIP Advances</i> , 2022, 12, 105119.	0.6	1
1147	Integration of synaptic phototransistors and quantum dot light-emitting diodes for visualization and recognition of UV patterns. <i>Science Advances</i> , 2022, 8, .	4.7	26
1149	Phosphorylated Tau in Alzheimerâ€™s Disease and Other Tauopathies. <i>International Journal of Molecular Sciences</i> , 2022, 23, 12841.	1.8	60
1150	Aberrant cortical spine dynamics after concussive injury are reversed by integrated stress response inhibition. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	3.3	5
1151	Synaptic plasticity in Schizophrenia pathophysiology. <i>IBRO Neuroscience Reports</i> , 2022, 13, 478-478.	0.7	3
1152	The molecular diversity of plasticity mechanisms underlying memory: An evolutionary perspective. <i>Journal of Neurochemistry</i> , 2022, 163, 444-460.	2.1	4
1153	TREM2 and Microglia Contribute to the Synaptic Plasticity: from Physiology to Pathology. <i>Molecular Neurobiology</i> , 2023, 60, 512-523.	1.9	8
1154	Effects of prenatal opioid exposure on synaptic adaptations and behaviors across development. <i>Neuropharmacology</i> , 2023, 222, 109312.	2.0	4
1155	Transient active zone remodeling in the <i>Drosophila</i> mushroom body supports memory. <i>Current Biology</i> , 2022, 32, 4900-4913.e4.	1.8	7

#	ARTICLE	IF	CITATIONS
1156	Prenatal benzo[a]pyrene exposure impairs hippocampal synaptic plasticity and cognitive function in SD rat offspring during adolescence and adulthood via HDAC2-mediated histone deacetylation. <i>Ecotoxicology and Environmental Safety</i> , 2022, 246, 114180.	2.9	3
1157	Zn ²⁺ inhibits spatial memory and hippocampal place cell representation through high-affinity binding to the NMDA receptor GluN2A subunit. <i>IScience</i> , 2022, 25, 105355.	1.9	2
1158	A multifarious exploration of synaptic tagging and capture hypothesis in synaptic plasticity: Development of an integrated mathematical model and computational experiments. <i>Journal of Theoretical Biology</i> , 2023, 556, 111326.	0.8	3
1159	The role of AMPA and NMDA receptors in mitragynine effects on hippocampal synaptic plasticity. <i>Behavioural Brain Research</i> , 2023, 438, 114169.	1.2	6
1160	Synaptic plasticity during brain development: Implications for therapeutic reorganization of neural circuits. , 2022, , .		0
1161	Neurobiological Principles: Neurotransmitters. , 2022, , 3-23.		0
1162	The potential role of the cholecystokinin system in declarative memory. <i>Neurochemistry International</i> , 2023, 162, 105440.	1.9	0
1163	Linking the Amyloid, Tau, and Mitochondrial Hypotheses of Alzheimer's Disease and Identifying Promising Drug Targets. <i>Biomolecules</i> , 2022, 12, 1676.	1.8	24
1165	Bioderived materials for stimuli-responsive, adaptive, and neuromorphic systems: A perspective. <i>Journal of Composite Materials</i> , 2023, 57, 659-678.	1.2	1
1166	Brain-inspired Predictive Coding Improves the Performance of Machine Challenging Tasks. <i>Frontiers in Computational Neuroscience</i> , 0, 16, .	1.2	1
1167	Paeoniflorin improves cognitive dysfunction, restores glutamate receptors, attenuates gliosis and maintains synaptic plasticity in cadmium-intoxicated mice. <i>Arabian Journal of Chemistry</i> , 2023, 16, 104406.	2.3	3
1169	Shape-Deformable and Locomotive MXene (Ti ₃ C ₂ T _x)-Encapsulated Magnetic Liquid Metal for 3D-Motion-Adaptive Synapses. <i>Advanced Functional Materials</i> , 2023, 33, .	7.8	12
1170	An electronic synaptic memory device based on four-cation mixed halide perovskite. <i>Discover Materials</i> , 2022, 2, .	1.0	5
1171	Perspective on oxide-based three-terminal artificial synapses in physical neural networks. <i>Applied Physics Letters</i> , 2022, 121, .	1.5	4
1172	Role of calcium dysregulation in Alzheimer's disease and its therapeutic implications. <i>Chemical Biology and Drug Design</i> , 2023, 101, 453-468.	1.5	4
1173	Expression analysis of synaptic plasticity genes in curcumin-treated amnesic mice model. <i>Materials Today: Proceedings</i> , 2023, 73, 307-311.	0.9	1
1174	Control of Theta Oscillatory Activity Underlying Fear Expression by mGlu5 Receptors. <i>Cells</i> , 2022, 11, 3555.	1.8	1
1175	Advanced synaptic devices and their applications in biomimetic sensory neural system. , 2023, 2, 100031.		7

#	ARTICLE	IF	CITATIONS
1176	Proprioceptive Neuromuscular Facilitation and Mirror Therapy Methods Are Comparable Methods of Rehabilitation after a First-Ever Ischemic Stroke: A Randomized Study. <i>Sustainability</i> , 2022, 14, 15246.	1.6	0
1177	The ameliorative effects and mechanisms of abscisic acid on learning and memory. <i>Neuropharmacology</i> , 2023, 224, 109365.	2.0	0
1178	Non-competitive AMPA glutamate receptors antagonism by perampanel as a strategy to counteract hippocampal hyper-excitability and cognitive deficits in cerebral amyloidosis. <i>Neuropharmacology</i> , 2023, 225, 109373.	2.0	7
1179	Solution-Processed Synaptic Memristors Based on Halide Perovskite Nanocrystals. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 10994-11000.	2.1	9
1180	Far from home: the role of glial mRNA localization in synaptic plasticity. <i>Rna</i> , 2023, 29, 153-169.	1.6	3
1181	The endoplasmic reticulum puts a new spin on synaptic tagging. <i>Trends in Neurosciences</i> , 2022, , .	4.2	2
1182	Hamilton energy balance and synchronization behaviors of two functional neurons. <i>Cognitive Neurodynamics</i> , 2023, 17, 1683-1702.	2.3	9
1183	(2R,6R)-hydroxynorketamine acts through GluA1-induced synaptic plasticity to alleviate PTSD-like effects in rat models. <i>Neurobiology of Stress</i> , 2022, 21, 100503.	1.9	5
1184	Homeostatic Control of Neuronal Activity. <i>Physiology</i> , 0, , .	4.0	0
1185	Inferring the temporal evolution of synaptic weights from dynamic functional connectivity. <i>Brain Informatics</i> , 2022, 9, .	1.8	3
1186	Selective Menin Deletion in the Hippocampal CA1 Region Leads to Disruption of Contextual Memory in the MEN1 Conditional Knockout Mouse: Behavioral Restoration and Gain of Function following the Reintroduction of MEN1 Gene. <i>Cells</i> , 2022, 11, 4019.	1.8	0
1187	Intrinsic Excitability in Layer IV-VI Anterior Insula to Basolateral Amygdala Projection Neurons Correlates with the Confidence of Taste Valence Encoding. <i>ENeuro</i> , 2023, 10, ENEURO.0302-22.2022.	0.9	1
1188	A systematic review of the effects of gut microbiota depletion on social and anxiety-related behaviours in adult rodents: Implications for translational research.. <i>Neuroscience and Biobehavioral Reviews</i> , 2023, 145, 105013.	2.9	2
1190	Epigenetic signature in neural plasticity: the journey so far and journey ahead. <i>Heliyon</i> , 2022, 8, e12292.	1.4	5
1191	Strain-dependent regulation of hippocampal long-term potentiation by dopamine D1/D5 receptors in mice. <i>Frontiers in Behavioral Neuroscience</i> , 0, 16, .	1.0	1
1192	Study on the diversity of mental states and neuroplasticity of the brain during human-machine interaction. <i>Frontiers in Neuroscience</i> , 0, 16, .	1.4	0
1193	Synaptic activity-dependent changes in the hippocampal palmitoylome. <i>Science Signaling</i> , 2022, 15, .	1.6	11
1194	Detection of Association Features Based on Gene Eigenvalues and MRI Imaging Using Genetic Weighted Random Forest. <i>Genes</i> , 2022, 13, 2344.	1.0	1

#	ARTICLE	IF	CITATIONS
1195	Flexible Memristor Constructed by 2D Cadmium Phosphorus Trichalcogenide for Artificial Synapse and Logic Operation. <i>Advanced Functional Materials</i> , 2023, 33, .	7.8	16
1196	Mechanisms controlling the trafficking, localization, and abundance of presynaptic Ca ²⁺ channels. <i>Frontiers in Molecular Neuroscience</i> , 0, 15, .	1.4	3
1197	Art Value Creation and Destruction. <i>Integrative Psychological and Behavioral Science</i> , 2023, 57, 796-839.	0.5	2
1198	A novel human tau knock-in mouse model reveals interaction of Abeta and human tau under progressing cerebral amyloidosis in 5xFAD mice. <i>Alzheimer's Research and Therapy</i> , 2023, 15, .	3.0	5
1199	Synapse Dysfunctions in Multiple Sclerosis. <i>International Journal of Molecular Sciences</i> , 2023, 24, 1639.	1.8	5
1200	Rapid synaptic and gamma rhythm signature of mouse critical period plasticity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2023, 120, .	3.3	2
1201	Editorial: The role of microglia in the pathogenesis of neurodegenerative diseases. <i>Frontiers in Aging Neuroscience</i> , 0, 14, .	1.7	0
1202	Emerging electrolyte-gated transistors for neuromorphic perception. <i>Science and Technology of Advanced Materials</i> , 2023, 24, .	2.8	13
1203	Natural Organic Materials Based Memristors and Transistors for Artificial Synaptic Devices in Sustainable Neuromorphic Computing Systems. <i>Micromachines</i> , 2023, 14, 235.	1.4	6
1204	Two-terminal self-rectifying optoelectronic synaptic devices with largest-dynamic-range updates. <i>Applied Materials Today</i> , 2023, 30, 101728.	2.3	4
1205	Chemogenetic emulation of intraneuronal oxidative stress affects synaptic plasticity. <i>Redox Biology</i> , 2023, 60, 102604.	3.9	10
1206	The role of calcium in the mechanisms of pathogenesis and pharmacotherapy of mental disorders: a brief review. , 0, , 24-29.		0
1207	Rho-Kinase/ROCK Phosphorylates PSD-93 Downstream of NMDARs to Orchestrate Synaptic Plasticity. <i>International Journal of Molecular Sciences</i> , 2023, 24, 404.	1.8	6
1209	Heterosynaptic Plasticity and Neuromorphic Boolean Logic Enabled by Ferroelectric Polarization Modulated Schottky Diodes. <i>Advanced Electronic Materials</i> , 0, , 2201155.	2.6	2
1210	Iontronic analog of synaptic plasticity: Hydrogel-based ionic diode with chemical precipitation and dissolution. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2023, 120, .	3.3	4
1211	Phytochemicals That Act on Synaptic Plasticity as Potential Prophylaxis against Stress-Induced Depressive Disorder. <i>Biomolecules and Therapeutics</i> , 2023, 31, 148-160.	1.1	6
1212	The Role of Brain-Derived Neurotrophic Factor (BDNF) in Diagnosis and Treatment of Epilepsy, Depression, Schizophrenia, Anorexia Nervosa and Alzheimer's Disease as Highly Drug-Resistant Diseases: A Narrative Review. <i>Brain Sciences</i> , 2023, 13, 163.	1.1	10
1214	Therapeutic Potential and Limitation of Serotonin Type 7 Receptor Modulation. <i>International Journal of Molecular Sciences</i> , 2023, 24, 2070.	1.8	7

#	ARTICLE	IF	CITATIONS
1215	Hippocampal circuits. , 2023, , 247-288.		1
1216	S-Palmitoylation of Synaptic Proteins in Neuronal Plasticity in Normal and Pathological Brains. <i>Cells</i> , 2023, 12, 387.	1.8	10
1217	Dendritic spine-mediated structural synaptic plasticity: Implications for development, aging, and psychiatric disease. <i>Frontiers in Molecular Neuroscience</i> , 0, 16, .	1.4	4
1218	The corticomuscular coupling underlying movement and its application for rehabilitation: a review. , 2023, 2, .		2
1219	Altered neurotransmission in stress-induced depressive disorders: The underlying role of the amygdala in depression. <i>Neuropeptides</i> , 2023, 98, 102322.	0.9	6
1220	Synaptic plasticity in schizophrenia pathophysiology. <i>IBRO Neuroscience Reports</i> , 2023, 14, 244-252.	0.7	1
1221	Alcohol potentiates multiple GABAergic inputs to dorsal striatum fast-spiking interneurons. <i>Neuropharmacology</i> , 2023, 232, 109527.	2.0	3
1222	Different synaptic mechanisms of intermittent and continuous theta-burst stimulations in a severe foot-shock induced and treatment-resistant depression in a rat model. <i>Experimental Neurology</i> , 2023, 362, 114338.	2.0	2
1223	Overview on brain function enhancement of Internet addicts through exercise intervention: Based on reward-execution-decision cycle. <i>Frontiers in Psychiatry</i> , 0, 14, .	1.3	2
1224	Aberrant protein S-nitrosylation contributes to hyperexcitability-induced synaptic damage in Alzheimer's disease: Mechanistic insights and potential therapies. <i>Frontiers in Neural Circuits</i> , 0, 17, .	1.4	4
1225	Temporal profiles of neuronal responses to repeated tone stimuli in the mouse primary auditory cortex. <i>Hearing Research</i> , 2023, 430, 108710.	0.9	1
1226	Mimicking Pain-Perceptual Sensitization and Pattern Recognition Based on Capacitance- and Conductance-Regulated Neuroplasticity in Neural Network. <i>ACS Applied Materials & Interfaces</i> , 2023, 15, 9593-9603.	4.0	3
1227	Rhythmogenesis in the mean field model of the neuron-glia network. <i>European Physical Journal: Special Topics</i> , 2023, 232, 529-534.	1.2	14
1228	Activation of RhoA pathway participated in the changes of emotion, cognitive function and hippocampal synaptic plasticity in juvenile chronic stress rats. <i>International Journal of Biological Macromolecules</i> , 2023, 233, 123652.	3.6	2
1229	Oxidative Stress in Depression: The Link with the Stress Response, Neuroinflammation, Serotonin, Neurogenesis and Synaptic Plasticity. <i>Antioxidants</i> , 2023, 12, 470.	2.2	46
1230	Alpha-Asarone Ameliorates Neurological Dysfunction of Subarachnoid Hemorrhagic Rats in Both Acute and Recovery Phases via Regulating the CaMKII-Dependent Pathways. <i>Translational Stroke Research</i> , 2024, 15, 476-494.	2.3	2
1231	In-memory computing with emerging memory devices: Status and outlook. , 2023, 1, .		14
1232	Efficient inference of synaptic plasticity rule with Gaussian process regression. <i>IScience</i> , 2023, 26, 106182.	1.9	3

#	ARTICLE	IF	CITATIONS
1233	Modulation of neuronal excitability by binge alcohol drinking. <i>Frontiers in Molecular Neuroscience</i> , 0, 16, .	1.4	1
1234	Optically modulated ionic conductivity in a hydrogel for emulating synaptic functions. <i>Science Advances</i> , 2023, 9, .	4.7	11
1235	Interactive nanocluster compaction of the ELKS scaffold and Cacophony Ca ²⁺ channels drives sustained active zone potentiation. <i>Science Advances</i> , 2023, 9, .	4.7	11
1237	Organic Memristor with Synaptic Plasticity for Neuromorphic Computing Applications. <i>Nanomaterials</i> , 2023, 13, 803.	1.9	5
1238	Biological function simulation in neuromorphic devices: from synapse and neuron to behavior. <i>Science and Technology of Advanced Materials</i> , 2023, 24, .	2.8	13
1240	Designing polar textures with ultrafast neuromorphic features from atomistic simulations. <i>Neuromorphic Computing and Engineering</i> , 2023, 3, 012002.	2.8	3
1241	Î2-microglobulin functions as an endogenous NMDAR antagonist to impair synaptic function. <i>Cell</i> , 2023, 186, 1026-1038.e20.	13.5	11
1242	The NMDA receptor antagonists memantine and ketamine as anti-migraine agents. <i>Naunyn-Schmiedeberg's Archives of Pharmacology</i> , 2023, 396, 1371-1398.	1.4	3
1243	â...æœ%âšç”µâ¼âš”æ€€Efa’â’CEâšç°šç”µâ¼æ€çš„e“ç”µHf0.5Zr0.5O2æ...æžšçª€š æ™ªâ¼“ç®i. <i>Science China Materials</i> , 2023,		
1244	Alzheimerâ€™s disease as a synaptopathy: Evidence for dysfunction of synapses during disease progression. <i>Frontiers in Synaptic Neuroscience</i> , 0, 15, .	1.3	8
1246	Therapeutic potential of ADAM10 modulation in Alzheimerâ€™s disease: a review of the current evidence. <i>Cell Communication and Signaling</i> , 2023, 21, .	2.7	2
1247	Noninvasive Brain Stimulation Techniques for Treatment-Resistant Depression. <i>Psychiatric Clinics of North America</i> , 2023, , .	0.7	0
1249	Panax Ginseng in the treatment of Alzheimer's disease and vascular dementia. <i>Journal of Ginseng Research</i> , 2023, 47, 506-514.	3.0	8
1250	From neuromorphic to neurohybrid: transition from the emulation to the integration of neuronal networks. <i>Neuromorphic Computing and Engineering</i> , 2023, 3, 023002.	2.8	4
1251	Models developed for spiking neural networks. <i>MethodsX</i> , 2023, 10, 102157.	0.7	0
1252	Exploiting volume electron microscopy to investigate structural plasticity and stability of the postsynaptic compartment of central synapses. <i>Frontiers in Cellular Neuroscience</i> , 0, 17, .	1.8	0
1253	Novel therapeutic approaches to target neurodegeneration. <i>British Journal of Pharmacology</i> , 2023, 180, 1651-1673.	2.7	5
1254	Polymeric Memristor Based Artificial Synapses with Ultraâ€Wide Operating Temperature. <i>Advanced Materials</i> , 2023, 35, .	11.1	8

#	ARTICLE	IF	CITATIONS
1255	Creation of memristive synapse connection to neurons for keeping energy balance. <i>Pramana - Journal of Physics</i> , 2023, 97, .	0.6	9
1256	Two-Terminal Lithium-Mediated Artificial Synapses with Enhanced Weight Modulation for Feasible Hardware Neural Networks. <i>Nano-Micro Letters</i> , 2023, 15, .	14.4	14
1257	Development of the novel GlyT1 inhibitor, iclepertin (BI 425809), for the treatment of cognitive impairment associated with schizophrenia. <i>European Archives of Psychiatry and Clinical Neuroscience</i> , 2023, 273, 1557-1566.	1.8	14
1258	Inorganic Perovskite Quantum Dot-Mediated Photonic Multimodal Synapse. <i>ACS Applied Materials & Interfaces</i> , 2023, 15, 18055-18064.	4.0	3
1261	Responses of Cortical Neurons to Intracortical Microstimulation in Awake Primates. <i>ENeuro</i> , 2023, 10, ENEURO.0336-22.2023.	0.9	4
1262	Parameter and coupling estimation in small networks of Izhikevich's neurons. <i>Chaos</i> , 2023, 33, .	1.0	0
1263	Self-Regulatory Neuronal Mechanisms and Long-Term Challenges in Schizophrenia Treatment. <i>Brain Sciences</i> , 2023, 13, 651.	1.1	0
1264	Biosafety and mental health: virus induced cognitive decline. <i>Biosafety and Health</i> , 2023, , .	1.2	0
1266	Sensory Adaptation in Biomolecular Memristors Improves Reservoir Computing Performance. <i>Advanced Intelligent Systems</i> , 2023, 5, .	3.3	5
1267	Bionic Research on Multistage Pain Sensitization Based on Ionic Oxide Transistor Array. <i>Wuji Cailiao Xuebao/Journal of Inorganic Materials</i> , 2023, 38, 429.	0.6	1
1268	The Notch pathway regulates autophagy after hypoxic-ischemic injury and affects synaptic plasticity. <i>Brain Structure and Function</i> , 0, , .	1.2	0
1272	Neural-inspired artificial synapses based on low-voltage operated organic electrochemical transistors. <i>Journal of Materials Chemistry C</i> , 2023, 11, 7485-7509.	2.7	5
1304	Neurobiological Mechanisms of Cognitive Decline Correlated with Brain Aging. <i>Advances in Experimental Medicine and Biology</i> , 2023, , 127-146.	0.8	0
1308	Neuron-Cancer Synaptic and Other Electrical Signaling. , 2023, , 27-34.		0
1319	Synaptic motor adaptation: A three-factor learning rule for adaptive robotic control in spiking neural networks. , 2023, , .		0
1330	Adult neurogenesis and "immature" neurons in mammals: an evolutionary trade-off in plasticity?. <i>Brain Structure and Function</i> , 0, , .	1.2	3
1353	Hybrid Devices for Neuromorphic Applications. , 2023, , 622-655.		0
1360	Dendritic Spines: Synaptogenesis and Synaptic Pruning for the Developmental Organization of Brain Circuits. <i>Advances in Neurobiology</i> , 2023, , 143-221.	1.3	3

#	ARTICLE	IF	CITATIONS
1365	Electrophysiology of Dendritic Spines: Information Processing, Dynamic Compartmentalization, and Synaptic Plasticity. <i>Advances in Neurobiology</i> , 2023, , 103-141.	1.3	0
1375	Cholesterol in the Central Nervous System in Health and Disease. <i>Contemporary Cardiology</i> , 2023, , 389-412.	0.0	0
1379	Neuromorphic Computing with Resistive Memory and Bayesian Machines. , 0, , .		0
1385	Neuro-Inspired Plasticity for Biologically Realistic Self-Adaptation of Neural Network Weights. , 2023, , .		0
1392	Neuroscience: A lifespan perspective. , 2024, , 187-209.		0
1393	Personalized Learning Made Simple: A Deep Knowledge Tracing Model for Individual Cognitive Development. <i>Communications in Computer and Information Science</i> , 2024, , 462-472.	0.4	0
1413	The impact of purine nucleosides on neuroplasticity in the adult brain. <i>Purinergic Signalling</i> , 0, , .	1.1	0
1417	Proteomic-Based Studies on Memory Formation in Normal and Neurodegenerative Disease-Affected Brains. <i>Advances in Experimental Medicine and Biology</i> , 2024, , 129-158.	0.8	0
1429	Limitations and Future Directions for 4-Hexylresorcinol Applications. , 2024, , 163-174.		0
1432	Central Gain Model for Tinnitus: A Review on Noise-Induced Plasticity or When Less at the Periphery Is More in the Center. , 2024, , 205-219.		0