Matteo Caleo

List of Publications by Year
in descending order

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141 papers	6,575 citations	71102 41 h-index	76900 74 g-index
158 all docs	158 docs citations	158 times ranked	9766 citing authors

#	Article	IF	Citations
1	The functional characterization of callosal connections. Progress in Neurobiology, 2022, 208, 102186.	5.7	28
2	Chronic lithium administration in a mouse model for Krabbe disease. JIMD Reports, 2022, 63, 50-65.	1.5	7
3	Glial-fibrillary-acidic-protein (GFAP) biomarker detection in serum-matrix: Functionalization strategies and detection by an ultra-high-frequency surface-acoustic-wave (UHF-SAW) lab-on-chip.. Biosensors and Bioelectronics, 2021, 172, 112774.	10.1	32
4	Pathogenic NR2F1 variants cause a developmental ocular phenotype recapitulated in a mutant mouse model. Brain Communications, 2021, 3, fcab162.	3.3	13
5	CTX-CNF1 Recombinant Protein Selectively Targets Glioma Cells In Vivo. Toxins, 2021, 13, 194.	3.4	11
6	The synaptic blocker botulinum toxin A decreases the density and complexity of oligodendrocyte precursor cells in the adult mouse hippocampus. Journal of Neuroscience Research, 2021, 99, 2216-2227.	2.9	3
7	Combining robotics with enhanced serotonin-driven cortical plasticity improves post-stroke motor recovery. Progress in Neurobiology, 2021, 203, 102073.	5.7	1
8	Visual System Impairment in a Mouse Model of Krabbe Disease: The Twitcher Mouse. Biomolecules, 2021, 11, 7.	4.0	7
9	Longitudinal Bottom-Up Proteomics of Serum, Serum Extracellular Vesicles, and Cerebrospinal Fluid Reveals Candidate Biomarkers for Early Detection of Glioblastoma in a Murine Model. Molecules, 2021, 26, 5992.	3.8	8
10	Narrow and Broad Î³ Bands Process Complementary Visual Information in Mouse Primary Visual Cortex. ENeuro, 2021, 8, ENEURO.0106-21.2021.	1.9	9
11	Cell-to-Cell Interactions Mediating Functional Recovery after Stroke. Cells, 2021, 10, 3050.	4.1	9
12	Proteomics analysis of serum small extracellular vesicles for the longitudinal study of a glioblastoma multiforme mouse model. Scientific Reports, 2020, 10, 20498.	3.3	13
13	Experimental and Computational Study on Motor Control and Recovery After Stroke: Toward a Constructive Loop Between Experimental and Virtual Embodied Neuroscience. Frontiers in Systems Neuroscience, 2020, 14, 31.	2.5	23
14	Voluntary Physical Exercise Reduces Motor Dysfunction and Hampers Tumor Cell Proliferation in a Mouse Model of Glioma. International Journal of Environmental Research and Public Health, 2020, 17, 5667.	2.6	9
15	Synaptic Vesicles Dynamics in Neocortical Epilepsy. Frontiers in Cellular Neuroscience, 2020, 14, 606142.	3.7	7
16	Differential roles of pyramidal and fast-spiking, GABAergic neurons in the control of glioma cell proliferation. Neurobiology of Disease, 2020, 141, 104942.	4.4	34
17	ROCK/PKA Inhibition Rescues Hippocampal Hyperexcitability and GABAergic Neuron Alterations in a Oligophrenin-1 Knock-Out Mouse Model of X-Linked Intellectual Disability. Journal of Neuroscience, 2020, 40, 2776-2788.	3.6	12
18	Advanced Neurotechnologies for the Restoration of Motor Function. Neuron, 2020, 105, 604-620.	8.1	69

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19	Duplication of clostridial binding domains for enhanced macromolecular delivery into neurons. Toxicon: X, 2020, 5, 100019.	2.9	0
20	Pluripotent Stem Cells for Brain Repair: Protocols and Preclinical Applications in Cortical and Hippocampal Pathologies. Frontiers in Neuroscience, 2019, 13, 684.	2.8	9
21	Cortical Seizures in FoxG1+/â˜ Mice are Accompanied by Akt/S6 Overactivation, Excitation/Inhibition Imbalance and Impaired Synaptic Transmission. International Journal of Molecular Sciences, 2019, 20, 4127.	4.1	16
22	Obese mice exposed to psychosocial stress display cardiac and hippocampal dysfunction associated with local brain-derived neurotrophic factor depletion. EBioMedicine, 2019, 47, 384-401.	6.1	49
23	Combined Rehabilitation Promotes the Recovery of Structural and Functional Features of Healthy Neuronal Networks after Stroke. Cell Reports, 2019, 28, 3474-3485.e6.	6.4	42
24	Dysregulated autophagy as a new aspect of the molecular pathogenesis of Krabbe disease. Neurobiology of Disease, 2019, 129, 195-207.	4.4	30
25	Quantitative Microproteomics Based Characterization of the Central and Peripheral Nervous System of a Mouse Model of Krabbe Disease. Molecular and Cellular Proteomics, 2019, 18, 1227-1241.	3.8	25
26	Towards in-silico robotic post-stroke rehabilitation for mice. , 2019, , .		1
27	A triheptanoin-supplemented diet rescues hippocampal hyperexcitability and seizure susceptibility in FoxG1 mice. Neuropharmacology, 2019, 148, 305-310.	4.1	12
28	Characterization of Neural Signals in Preclinical Studies of Neural Plasticity Using Nonlinear Time Series Analysis. PoliTO Springer Series, 2019, , 33-52.	0.5	0
29	Neurons Generated by Mouse ESCs with Hippocampal or Cortical Identity Display Distinct Projection Patterns When Co-transplanted in the Adult Brain. Stem Cell Reports, 2018, 10, 1016-1029.	4.8	19
30	Plasticity of transcallosal pathways after stroke and their role in recovery. Journal of Physiology, 2018, 596, 1789-1790.	2.9	6
31	Vascular Function Is Improved After an Environmental Enrichment Program. Hypertension, 2018, 71, 1218-1225.	2.7	18
32	Direct central nervous system effects of botulinum neurotoxin. Toxicon, 2018, 147, 68-72.	1.6	42
33	Transynaptic Action of Botulinum Neurotoxin Type A at Central Cholinergic Boutons. Journal of Neuroscience, 2018, 38, 10329-10337.	3.6	41
34	Unilateral Application of Cathodal tDCS Reduces Transcallosal Inhibition and Improves Visual Acuity in Amblyopic Patients. Frontiers in Behavioral Neuroscience, 2018, 12, 109.	2.0	24
35	Bacterial Toxins and Targeted Brain Therapy: New Insights from Cytotoxic Necrotizing Factor 1 (CNF1). International Journal of Molecular Sciences, 2018, 19, 1632.	4.1	10
36	Exploiting Botulinum Neurotoxins for the Study of Brain Physiology and Pathology. Toxins, 2018, 10, 175.	3.4	15

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37	A Robotic System for Adaptive Training and Function Assessment of Forelimb Retraction in Mice. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2018, 26, 1803-1812.	4.9	14
38	Pharmacological rescue of adult hippocampal neurogenesis in a mouse model of X-linked intellectual disability. Neurobiology of Disease, 2017, 100, 75-86.	4.4	14
39	Vitamin D 3 protects against Aî² peptide cytotoxicity in differentiated human neuroblastoma SH- SY5Y cells: A role for S1P1/p38MAPK/ATF4 axis. Neuropharmacology, 2017, 116, 328-342.	4.1	16
40	Randomized trial on the effects of a combined physical/cognitive training in aged MCI subjects: the Train the Brain study. Scientific Reports, 2017, 7, 39471.	3.3	108
41	Ultra-High Mass Resolution MALDI Imaging Mass Spectrometry of Proteins and Metabolites in a Mouse Model of Glioblastoma. Scientific Reports, 2017, 7, 603.	3.3	134
42	Dynamical properties of LFPs from mice with unilateral injection of TeNT. BioSystems, 2017, 161, 57-66.	2.0	6
43	Neuroinflammatory targets and treatments for epilepsy validated in experimental models. Epilepsia, 2017, 58, 27-38.	5.1	131
44	Intravenous infusion of human bone marrow mesenchymal stromal cells promotes functional recovery and neuroplasticity after ischemic stroke in mice. Scientific Reports, 2017, 7, 6962.	3.3	36
45	Chemokines as new inflammatory players in the pathogenesis of epilepsy. Epilepsy Research, 2017, 136, 77-83.	1.6	58
46	Activity-dependent expression of Channelrhodopsin at neuronal synapses. Nature Communications, 2017, 8, 1629.	12.8	21
47	Mass Spectrometry Imaging, Laser Capture Microdissection, and LC-MS/MS of the Same Tissue Section. Journal of Proteome Research, 2017, 16, 2993-3001.	3.7	58
48	Neuroplastic Changes Following Brain Ischemia and their Contribution to Stroke Recovery: Novel Approaches in Neurorehabilitation. Frontiers in Cellular Neuroscience, 2017, 11, 76.	3.7	144
49	Combining robotic training and inactivation of the healthy hemisphere restores pre-stroke motor patterns in mice. ELife, 2017, 6, .	6.0	50
50	Progression of motor deficits in glioma-bearing mice: impact of CNF1 therapy at symptomatic stages. Oncotarget, 2017, 8, 23539-23550.	1.8	22
51	Adult neurogenesis in intellectual disabilities. Oncotarget, 2017, 8, 45044-45045.	1.8	4
52	Multi-scale optical investigation of robotic rehabilitation-induced cortical plasticity after stroke. , 2017, , .		0
53	Reorganization of Visual Callosal Connections Following Alterations of Retinal Input and Brain Damage. Frontiers in Systems Neuroscience, 2016, 10, 86.	2.5	14
54	Reducing GABAA-mediated inhibition improves forelimb motor function after focal cortical stroke in mice. Scientific Reports, 2016, 6, 37823.	3.3	61

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55	The Chemokine CCL2 Mediates the Seizure-enhancing Effects of Systemic Inflammation. Journal of Neuroscience, 2016, 36, 3777-3788.	3.6	92
56	Time evolution of interhemispheric coupling in a model of focal neocortical epilepsy in mice. Physical Review E, 2016, 94, 032409.	2.1	6
57	Altered recovery from inhibitory repetitive transcranial magnetic stimulation (rTMS) in subjects with photosensitive epilepsy. Clinical Neurophysiology, 2016, 127, 3353-3361.	1.5	14
58	The bacterial toxin CNF1 as a tool to induce retinal degeneration reminiscent of retinitis pigmentosa. Scientific Reports, 2016, 6, 35919.	3.3	3
59	Epilepsy, Seizures, and Inflammation: Role of the C-C Motif Ligand 2 Chemokine. DNA and Cell Biology, 2016, 35, 257-260.	1.9	39
60	Electrophysiology of glioma: a Rho GTPase-activating protein reduces tumor growth and spares neuron structure and function. Neuro-Oncology, 2016, 18, 1634-1643.	1.2	21
61	Altered sensory processing and dendritic remodeling in hyperexcitable visual cortical networks. Brain Structure and Function, 2016, 221, 2919-2936.	2.3	22
62	Multi-level imaging of brain plasticity after stroke. , 2016, , .		1
63	Post-Stroke Longitudinal Alterations of Inter-Hemispheric Correlation and Hemispheric Dominance in Mouse Pre-Motor Cortex. PLoS ONE, 2016, 11, e0146858.	2.5	16
64	Multi scale morpho-functional characterization of damage and rehabilitation after stroke. , 2016, , .		0
65	Existence of anticorrelations for local field potentials recorded from mice reared in standard condition and environmental enrichment. Physical Review E, 2015, 91, 012702.	2.1	5
66	Quantitative Kinematic Characterization of Reaching Impairments in Mice After a Stroke. Neurorehabilitation and Neural Repair, 2015, 29, 382-392.	2.9	46
67	Rehabilitation and plasticity following stroke: Insights from rodent models. Neuroscience, 2015, 311, 180-194.	2.3	69
68	An unexpected target of spinal direct current stimulation: Interhemispheric connectivity in humans. Journal of Neuroscience Methods, 2015, 254, 18-26.	2.5	34
69	Early depolarizing GABA controls critical-period plasticity in the rat visual cortex. Nature Neuroscience, 2015, 18, 87-96.	14.8	98
70	More than at the Neuromuscular Synapse. Neuroscientist, 2015, 21, 44-61.	3.5	84
71	Altered GABAergic markers, increased binocularity and reduced plasticity in the visual cortex of Engrailed-2 knockout mice. Frontiers in Cellular Neuroscience, 2014, 8, 163.	3.7	28
72	A Robotic System for Quantitative Assessment and Poststroke Training of Forelimb Retraction in Mice. Neurorehabilitation and Neural Repair, 2014, 28, 188-196.	2.9	49

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73	A switch from interâ€ocular to interâ€hemispheric suppression following monocular deprivation in the rat visual cortex. European Journal of Neuroscience, 2014, 40, 2283-2292.	2.6	10
74	Visual callosal connections: role in visual processing in health and disease. Reviews in the Neurosciences, 2014, 25, 113-27.	2.9	26
75	Increased dopaminergic innervation in the brain of conditional mutant mice overexpressing Otx2: Effects on locomotor behavior and seizure susceptibility. Neuroscience, 2014, 261, 173-183.	2.3	14
76	Evidence for metaplasticity in the human visual cortex. Journal of Neural Transmission, 2014, 121, 221-231.	2.8	52
77	Role of extracellular calcium and mitochondrial oxygen species in psychosine-induced oligodendrocyte cell death. Cell Death and Disease, 2014, 5, e1529-e1529.	6.3	60
78	The bacterial protein toxin, cytotoxic necrotizing factor 1 (CNF1) provides long-term survival in a murine glioma model. BMC Cancer, 2014, 14, 449.	2.6	19
79	Epileptiform Activity and Cognitive Deficits in SNAP-25+/âˆ' Mice are Normalized by Antiepileptic Drugs. Cerebral Cortex, 2014, 24, 364-376.	2.9	78
80	Environmental enrichment strengthens corticocortical interactions and reduces amyloid-Î² oligomers in aged mice. Frontiers in Aging Neuroscience, 2014, 6, 1.	3.4	331
81	Experience-Dependent Plasticity in the Central Nervous System. , 2013, , 553-576.		0
82	Synthetic Self-Assembling Clostridial Chimera for Modulation of Sensory Functions. Bioconjugate Chemistry, 2013, 24, 1750-1759.	3.6	31
83	Loss of survivin in neural precursor cells results in impaired long-term potentiation in the dentate gyrus and CA1-region. Neuroscience, 2013, 231, 413-419.	2.3	10
84	Silencing synapses. Prion, 2013, 7, 147-150.	1.8	5
85	Bright light exposure reduces TH-positive dopamine neurons: implications of light pollution in Parkinson's disease epidemiology. Scientific Reports, 2013, 3, 1395.	3.3	44
86	Physiology and Plasticity of Interhemispheric Connections. Neural Plasticity, 2013, 2013, 1-2.	2.2	3
87	Botulinum Neurotoxins A and E Undergo Retrograde Axonal Transport in Primary Motor Neurons. PLoS Pathogens, 2012, 8, e1003087.	4.7	164
88	Epilepsy as a Neurodevelopmental Disorder. Frontiers in Psychiatry, 2012, 3, 19.	2.6	120
89	Cracking Down on Inhibition: Selective Removal of GABAergic Interneurons from Hippocampal Networks. Journal of Neuroscience, 2012, 32, 1989-2001.	3.6	40
90	The Corpus Callosum and the Visual Cortex: Plasticity Is a Game for Two. Neural Plasticity, 2012, 2012, 1-10.	2.2	64

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91	Microvesicles released from microglia stimulate synaptic activity via enhanced sphingolipid metabolism. EMBO Journal, 2012, 31, 1231-1240.	7.8	266
92	A Radial Glia-Specific Role of RhoA in Double Cortex Formation. Neuron, 2012, 73, 911-924.	8.1	157
93	New signalling pathway involved in the anti-proliferative action of vitamin D3 and its analogues in human neuroblastoma cells. A role for ceramide kinase. Neuropharmacology, 2012, 63, 524-537.	4.1	42
94	Tetanus neurotoxinâ€“induced epilepsy in mouse visual cortex. Epilepsia, 2012, 53, e132-6.	5.1	33
95	Botulinum Neurotoxin A Impairs Neurotransmission Following Retrograde Transynaptic Transport. Traffic, 2012, 13, 1083-1089.	2.7	79
96	The Role of Activity in Synaptic Degeneration in a Protein Misfolding Disease, Prion Disease. PLoS ONE, 2012, 7, e41182.	2.5	21
97	Impaired reelin processing and secretion by Cajalâ€“Retzius cells contributes to granule cell dispersion in a mouse model of temporal lobe epilepsy. Hippocampus, 2011, 21, 935-944.	1.9	51
98	Transcallosal inhibition dampens neural responses to high contrast stimuli in human visual cortex. Neuroscience, 2011, 187, 43-51.	2.3	24
99	Environmental Enrichment Modulates Cortico-Cortical Interactions in the Mouse. PLoS ONE, 2011, 6, e25285.	2.5	29
100	Environmental enrichment reduces spontaneous seizures in the Q54 transgenic mouse model of temporal lobe epilepsy. Epilepsia, 2011, 52, e113-e117.	5.1	28
101	Re-Assembled Botulinum Neurotoxin Inhibits CNS Functions without Systemic Toxicity. Toxins, 2011, 3, 345-355.	3.4	31
102	Evidence for Anterograde Transport and Transcytosis of Botulinum Neurotoxin A (BoNT/A). Journal of Neuroscience, 2011, 31, 15650-15659.	3.6	139
103	Activation of Rho GTPases Triggers Structural Remodeling and Functional Plasticity in the Adult Rat Visual Cortex. Journal of Neuroscience, 2011, 31, 15163-15172.	3.6	67
104	Macro-EMG and MUNE Changes in Patients with Amyotrophic Lateral Sclerosis: One-Year Follow Up. International Journal of Neuroscience, 2011, 121, 257-266.	1.6	10
105	Differential Motor Neuron Impairment and Axonal Regeneration in Sporadic and Familiar Amyotrophic Lateral Sclerosis with SOD-1 Mutations: Lessons from Neurophysiology. International Journal of Molecular Sciences, 2011, 12, 9203-9215.	4.1	7
106	Impaired neurogenesis, learning and memory and low seizure threshold associated with loss of neural precursor cell survivin. BMC Neuroscience, 2010, 11, 2.	1.9	20
107	Environmental enrichment potentiates thalamocortical transmission and plasticity in the adult rat visual cortex. Journal of Neuroscience Research, 2010, 88, 3048-3059.	2.9	54
108	Callosal contribution to ocular dominance in rat primary visual cortex. European Journal of Neuroscience, 2010, 32, 1163-1169.	2.6	34

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109	Acute neuroprotection by the synaptic blocker botulinum neurotoxin E in a rat model of focal cerebral ischaemia. Neuroscience, 2010, 169, 395-401.	2.3	16
110	Epilepsy: synapses stuck in childhood. Nature Medicine, 2009, 15, 1126-1127.	30.7	9
111	AP2Î³ regulates basal progenitor fate in a region- and layer-specific manner in the developing cortex. Nature Neuroscience, 2009, 12, 1229-1237.	14.8	101
112	Intrahippocampal infusion of botulinum neurotoxin E (BoNT/E) reduces spontaneous recurrent seizures in a mouse model of mesial temporal lobe epilepsy. Epilepsia, 2009, 50, 963-966.	5.1	38
113	A reappraisal of the central effects of botulinum neurotoxin type A: by what mechanism?. Journal of Neurochemistry, 2009, 109, 15-24.	3.9	75
114	Environmental enrichment promotes fiber sprouting after deafferentation of the superior colliculus in the adult rat brain. Experimental Neurology, 2009, 216, 515-519.	4.1	14
115	Central effects of tetanus and botulinum neurotoxins. Toxicon, 2009, 54, 593-599.	1.6	101
116	Functional Masking of Deprived Eye Responses by Callosal Input during Ocular Dominance Plasticity. Neuron, 2009, 64, 707-718.	8.1	71
117	Calpain activity contributes to the control of SNAP-25 levels in neurons. Molecular and Cellular Neurosciences, 2008, 39, 314-323.	2.2	18
118	Botulinum neurotoxin E (BoNT/E) reduces CA1 neuron loss and granule cell dispersion, with no effects on chronic seizures, in a mouse model of temporal lobe epilepsy. Experimental Neurology, 2008, 210, 388-401.	4.1	52
119	Long-Distance Retrograde Effects of Botulinum Neurotoxin A. Journal of Neuroscience, 2008, 28, 3689-3696.	3.6	382
120	Transient Synaptic Silencing of Developing Striate Cortex Has Persistent Effects on Visual Function and Plasticity. Journal of Neuroscience, 2007, 27, 4530-4540.	3.6	53
121	BoNT/E prevents seizure-induced activation of caspase 3 in the rat hippocampus. NeuroReport, 2007, 18, 577-580.	1.2	14
122	Acute retinal ganglion cell injury caused by intraocular pressure spikes is mediated by endogenous extracellular ATP. European Journal of Neuroscience, 2007, 25, 2741-2754.	2.6	128
123	BoNT/E prevents seizure-induced activation of caspase 3 in the rat hippocampus. NeuroReport, 2007, 18, 373-6.	1.2	9
124	Brainâ€derived neurotrophic factor (BDNF) is required for the enhancement of hippocampal neurogenesis following environmental enrichment. European Journal of Neuroscience, 2006, 24, 1850-1856.	2.6	523
125	Action of botulinum neurotoxins in the central nervous system: Antiepileptic effects. Neurotoxicity Research, 2006, 9, 197-203.	2.7	44
126	A Role for Retinal Brain-Derived Neurotrophic Factor in Ocular Dominance Plasticity. Current Biology, 2005, 15, 2119-2124.	3.9	45

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127	Antiepileptic Effects of Botulinum Neurotoxin E. Journal of Neuroscience, 2005, 25, 1943-1951.	3.6	87
128	Anterograde Transport of Neurotrophic Factors: Possible Therapeutic Implications. Molecular Neurobiology, 2004, 29, 179-196.	4.0	22
129	Provision of Brain-Derived Neurotrophic Factor via Anterograde Transport from the Eye Preserves the Physiological Responses of Axotomized Geniculate Neurons. Journal of Neuroscience, 2003, 23, 287-296.	3.6	51
130	Synergistic Effects of Brain-Derived Neurotrophic Factor and Chondroitinase ABC on Retinal Fiber Sprouting after Denervation of the Superior Colliculus in Adult Rats. Journal of Neuroscience, 2003, 23, 7034-7044.	3.6	118
131	Expression of BCL-2 via adeno-associated virus vectors rescues thalamic neurons after visual cortex lesion in the adult rat. European Journal of Neuroscience, 2002, 15, 1271-1277.	2.6	15
132	A comparative morphometric analysis of the optic nerve in two cetacean species, the striped dolphin (Stenella coeruleoalba) and fin whale (Balaenoptera physalus). Visual Neuroscience, 2001, 18, 319-325.	1.0	12
133	Brain-derived neurotrophic factor is an anterograde survival factor in the rat visual system. Current Biology, 2000, 10, 1155-1161.	3.9	111
134	Effects of nerve growth factor on visual cortical plasticity require afferent electrical activity. European Journal of Neuroscience, 1999, 11, 2979-2984.	2.6	30
135	Expression of the transcription factor Zif268 in the visual cortex of monocularly deprived rats: effects of nerve growth factor. Neuroscience, 1999, 91, 1017-1026.	2.3	28
136	Role of neurotrophins in neural plasticity: what we learn from the visual cortex. Restorative Neurology and Neuroscience, 1999, 15, 125-36.	0.7	10
137	Axonal Transport Blockade in the Neonatal Rat Optic Nerve Induces Limited Retinal Ganglion Cell Death. Journal of Neuroscience, 1997, 17, 7045-7052.	3.6	25
138	Different rates of horseradish peroxidase transport in the optic nerve of neonatal and adult rats. Neuroscience, 1996, 72, 725-730.	2.3	4
139	Insights into Visual Cortex Plasticity: Interaction Between Genes and Sensory Experience. , 0, , .		1
140	Direct Central Nervous System Effects of Botulinum Neurotoxin. , 0, , 111-114.		0
141	Rehabilitation Promotes the Recovery of Functional and Structural Features of Healthy Neuronal Networks after Stroke. SSRN Electronic Journal, 0, , .	0.4	0