Brian A. MacVicar

List of Publications by Year
in descending order

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156 papers	18,142 citations	11651 70 h-index	13379 130 g-index
160 all docs	160 docs citations	160 times ranked	15571 citing authors

#	Article	IF	Citations
1	Hyperexcitable superior colliculus and fatal brainstem spreading depolarization in a model of Sudden Unexpected Death in Epilepsy. Brain Communications, 2022, 4, fcac006.	3.3	12
2	Gut microbes shape microglia and cognitive function during malnutrition. Glia, 2022, 70, 820-841.	4.9	6
3	The Oral and Fecal Microbiota in a Canadian Cohort of Alzheimerâ€™s Disease. Journal of Alzheimer's Disease, 2022, 87, 247-258.	2.6	17
4	Age-dependent gray matter demyelination is associated with leptomeningeal neutrophil accumulation. JCI Insight, 2022, 7, .	5.0	5
5	The Laminin-Induced Phosphorylation of PKCÎ´ Regulates AQP4 Distribution and Water Permeability in Rat Astrocytes. Cellular and Molecular Neurobiology, 2021, 41, 1743-1757.	3.3	7
6	Neuroinflammatory inhibition of synaptic longâ€term potentiation requires immunometabolic reprogramming of microglia. Glia, 2021, 69, 567-578.	4.9	38
7	Reactive astrocyte nomenclature, definitions, and future directions. Nature Neuroscience, 2021, 24, 312-325.	14.8	1,098
8	Gamma frequency activation of inhibitory neurons in the acute phase after stroke attenuates vascular and behavioral dysfunction. Cell Reports, 2021, 34, 108696.	6.4	26
9	Agrin plays a major role in the coalescence of the aquaporinâ€4 clusters induced by gammaâ€1â€containing laminin. Journal of Comparative Neurology, 2020, 528, 407-418.	1.6	10
10	Immunometabolism in the Brain: How Metabolism Shapes Microglial Function. Trends in Neurosciences, 2020, 43, 854-869.	8.6	110
11	PANX1 in inflammation heats up: New mechanistic insights with implications for injury and infection. Cell Calcium, 2020, 90, 102253.	2.4	10
12	An in vitro bioengineered model of the human arterial neurovascular unit to study neurodegenerative diseases. Molecular Neurodegeneration, 2020, 15, 70.	10.8	9
13	Neuron Activity Dependent Redox Compartmentation Revealed with a Second Generation Red-Shifted Ratiometric Sensor. ACS Chemical Neuroscience, 2020, 11, 2666-2678.	3.5	3
14	Microglial metabolic flexibility supports immune surveillance of the brain parenchyma. Nature Communications, 2020, 11, 1559.	12.8	139
15	Nanoscale Surveillance of the Brain by Microglia via cAMP-Regulated Filopodia. Cell Reports, 2019, 27, 2895-2908.e4.	6.4	149
16	Green fluorescent protein emission obscures metabolic fluorescent lifetime imaging of NAD(P)H. Biomedical Optics Express, 2019, 10, 4381.	2.9	15
17	Ca_V3.2 drives sustained burstâ€firing, which is critical for absence seizure propagation in reticular thalamic neurons. Epilepsia, 2018, 59, 778-791.	5.1	36
18	Microglial modulation of neuronal activity in the healthy brain. Developmental Neurobiology, 2018, 78, 593-603.	3.0	80

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19	3DMorph Automatic Analysis of Microglial Morphology in Three Dimensions fromEx VivoandIn VivoImaging. ENeuro, 2018, 5, ENEURO.0266-18.2018.	1.9	87
20	Rap2 and TNIK control Plexin-dependent tiled synaptic innervation in C. elegans. ELife, 2018, 7, .	6.0	18
21	Recording, analysis, and interpretation of spreading depolarizations in neurointensive care: Review and recommendations of the COSBID research group. Journal of Cerebral Blood Flow and Metabolism, 2017, 37, 1595-1625.	4.3	255
22	A Critical Role for Astrocytes in Hypercapnic Vasodilation in Brain. Journal of Neuroscience, 2017, 37, 2403-2414.	3.6	58
23	In vivo imaging reveals that pregabalin inhibits cortical spreading depression and propagation to subcortical brain structures. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 2401-2406.	7.1	53
24	Mitochondrial Calcium Sparkles Light Up Astrocytes. Developmental Cell, 2017, 40, 327-328.	7.0	1
25	Astrocytes Provide Metabolic Support for Neuronal Synaptic Function in Response to Extracellular K+. Neurochemical Research, 2017, 42, 2588-2594.	3.3	16
26	Pannexin1 knockout and blockade reduces ischemic stroke injury in female, but not in male mice. Oncotarget, 2017, 8, 36973-36983.	1.8	39
27	The cost of communication in the brain. ELife, 2017, 6, .	6.0	3
28	Bidirectional Control of Blood Flow by Astrocytes: A Role for Tissue Oxygen and Other Metabolic Factors. Advances in Experimental Medicine and Biology, 2016, 903, 209-219.	1.6	12
29	Ca²⁺transients in astrocyte fine processes occur via Ca²⁺influx in the adult mouse hippocampus. Glia, 2016, 64, 2093-2103.	4.9	120
30	Mapping synaptic glutamate transporter dysfunction in vivo to regions surrounding AÎ² plaques by iGluSnFR two-photon imaging. Nature Communications, 2016, 7, 13441.	12.8	105
31	Driving the Early Auditory Network the Old-Fashioned Way. Cell, 2015, 163, 1307-1308.	28.9	1
32	The Cellular Mechanisms of Neuronal Swelling Underlying Cytotoxic Edema. Cell, 2015, 161, 610-621.	28.9	197
33	Astrocyte Regulation of Blood Flow in the Brain. Cold Spring Harbor Perspectives in Biology, 2015, 7, a020388.	5.5	249
34	Fixation and Immunolabeling of Brain Slices: SNAPSHOT Method. Current Protocols in Neuroscience, 2015, 71, 1.23.1-1.23.12.	2.6	16
35	Microglia: Dynamic Mediators of Synapse Development and Plasticity. Trends in Immunology, 2015, 36, 605-613.	6.8	537
36	How Spreading Depolarization Can Be the Pathophysiological Correlate of Both Migraine Aura and Stroke. Acta Neurochirurgica Supplementum, 2015, 120, 137-140.	1.0	11

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37	Activation of Neuronal NMDA Receptors Triggers Transient ATP-Mediated Microglial Process Outgrowth. Journal of Neuroscience, 2014, 34, 10511-10527.	3.6	229
38	Microglial CR3 Activation Triggers Long-Term Synaptic Depression in the Hippocampus via NADPH Oxidase. Neuron, 2014, 82, 195-207.	8.1	199
39	Cognitive flexibility and long-term depression (LTD) are impaired following Î²-catenin stabilization in vivo. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 8631-8636.	7.1	75
40	Progranulin promotes activation of microglia/macrophage after pilocarpine-induced status epilepticus. Brain Research, 2013, 1530, 54-65.	2.2	24
41	Increased 20-HETE Synthesis Explains Reduced Cerebral Blood Flow But Not Impaired Neurovascular Coupling after Cortical Spreading Depression in Rat Cerebral Cortex. Journal of Neuroscience, 2013, 33, 2562-2570.	3.6	73
42	Regenerative Glutamate Release by Presynaptic NMDA Receptors Contributes to Spreading Depression. Journal of Cerebral Blood Flow and Metabolism, 2013, 33, 1582-1594.	4.3	85
43	Lipid Nanoparticle Delivery of siRNA to Silence Neuronal Gene Expression in the Brain. Molecular Therapy - Nucleic Acids, 2013, 2, e136.	5.1	127
44	Microglia in Neuronal Circuits. Neural Plasticity, 2013, 2013, 1-3.	2.2	18
45	Prevention of LPS-Induced Microglia Activation, Cytokine Production and Sickness Behavior with TLR4 Receptor Interfering Peptides. PLoS ONE, 2013, 8, e60388.	2.5	116
46	Astrocyte Regulation of Neurovascular Control. , 2013, , .		0
47	Metabolic Communication between Astrocytes and Neurons via Bicarbonate-Responsive Soluble Adenylyl Cyclase. Neuron, 2012, 75, 1094-1104.	8.1	225
48	Plasma membrane insertion of TRPC5 channels contributes to the cholinergic plateau potential in hippocampal CA1 pyramidal neurons. Hippocampus, 2011, 21, 958-967.	1.9	63
49	Glutathione Restores the Mechanism of Synaptic Plasticity in Aged Mice to That of the Adult. PLoS ONE, 2011, 6, e20676.	2.5	77
50	A practical guide to the synthesis and use of membrane-permeant acetoxymethyl esters of caged inositol polyphosphates. Nature Protocols, 2011, 6, 327-337.	12.0	16
51	Bidirectional control of arteriole diameter by astrocytes. Experimental Physiology, 2011, 96, 393-399.	2.0	82
52	Pannexin channels are not gap junction hemichannels. Channels, 2011, 5, 193-197.	2.8	305
53	Glial and neuronal control of brain blood flow. Nature, 2010, 468, 232-243.	27.8	2,003
54	Contribution of calcium-dependent facilitation to synaptic plasticity revealed by migraine mutations in the P/Q-type calcium channel. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 18694-18699.	7.1	64

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55	Transient Swelling, Acidification, and Mitochondrial Depolarization Occurs in Neurons but not Astrocytes during Spreading Depression. Cerebral Cortex, 2010, 20, 2614-2624.	2.9	123
56	Non-junction functions of pannexin-1 channels. Trends in Neurosciences, 2010, 33, 93-102.	8.6	237
57	Glutamatergic stimulation triggers rapid KrÃ¼ppel-like factor 4 expression in neurons and the overexpression of KLF4 sensitizes neurons to NMDA-induced caspase-3 activity. Brain Research, 2009, 1250, 49-62.	2.2	23
58	Microglia processes block the spread of damage in the brain and require functional chloride channels. Glia, 2009, 57, 1610-1618.	4.9	166
59	Astrocyte-Mediated Distributed Plasticity at Hypothalamic Glutamate Synapses. Neuron, 2009, 64, 391-403.	8.1	189
60	Astrocyte control of blood flow. , 2009, , 461-486.		3
61	Brain metabolism dictates the polarity of astrocyte control over arterioles. Nature, 2008, 456, 745-749.	27.8	642
62	Delayed combinatorial treatment with flavopiridol and minocycline provides longer term protection for neuronal soma but not dendrites following global ischemia. Journal of Neurochemistry, 2008, 105, 703-713.	3.9	20
63	D1 Receptors Physically Interact with N-Type Calcium Channels to Regulate Channel Distribution and Dendritic Calcium Entry. Neuron, 2008, 58, 557-570.	8.1	101
64	Connexin and pannexin hemichannels of neurons and astrocytes. Channels, 2008, 2, 81-86.	2.8	88
65	Activation of Pannexin-1 Hemichannels Augments Aberrant Bursting in the Hippocampus. Science, 2008, 322, 1555-1559.	12.6	328
66	Tumor-Suppressive Effects of Pannexin 1 in C6 Glioma Cells. Cancer Research, 2007, 67, 1545-1554.	0.9	172
67	C-Jun N-terminal kinase regulates adenosine A1 receptor-mediated synaptic depression in the rat hippocampus. Neuropharmacology, 2007, 53, 906-917.	4.1	27
68	Astrocyte control of the cerebrovasculature. Glia, 2007, 55, 1214-1221.	4.9	280
69	Ischemia Opens Neuronal Gap Junction Hemichannels. Science, 2006, 312, 924-927.	12.6	499
70	Controlled capillaries. Nature, 2006, 443, 642-643.	27.8	7
71	Anion channels in astrocytes: Biophysics, pharmacology, and function. Glia, 2006, 54, 747-757.	4.9	110
72	VRACs CARVe a Path for Novel Mechanisms of Communication in the CNS. Science's STKE: Signal Transduction Knowledge Environment, 2006, 2006, pe42-pe42.	3.9	33

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73	Muscarinic Enhancement of R-Type Calcium Currents in Hippocampal CA1 Pyramidal Neurons. Journal of Neuroscience, 2006, 26, 6249-6258.	3.6	55
74	p38 Mitogen-Activated Protein Kinase Contributes to Adenosine A1 Receptor-Mediated Synaptic Depression in Area CA1 of the Rat Hippocampus. Journal of Neuroscience, 2006, 26, 12427-12438.	3.6	44
75	Topiramate Inhibits the Initiation of Plateau Potentials in CA1 Neurons by Depressing R-type Calcium Channels. Epilepsia, 2005, 46, 481-489.	5.1	81
76	Monitoring Intracellular Ca2+ in Brain Slices with Fluorescent Indicators. , 2005, , 12-26.		1
77	Calcium transients in astrocyte endfeet cause cerebrovascular constrictions. Nature, 2004, 431, 195-199.	27.8	789
78	Human immunodeficiency virus type 1 envelope-mediated neuropathogenesis: targeted gene delivery by a Sindbis virus expression vector. Virology, 2003, 309, 61-74.	2.4	13
79	Expression of voltage-gated Ca2+ channel subtypes in cultured astrocytes. Glia, 2003, 41, 347-353.	4.9	119
80	ATP Released From Astrocytes During Swelling Activates Chloride Channels. Journal of Neurophysiology, 2003, 89, 1870-1877.	1.8	176
81	Is autocrine ATP release required for activation of volume-sensitive chloride channels?. Journal of Neurophysiology, 2003, 90, 2791-2793.	1.8	8
82	Nitric oxide promotes intracellular calcium release from mitochondria in striatal neurons. FASEB Journal, 2002, 16, 1611-1622.	0.5	71
83	Activation of Presynaptic P2X₇-Like Receptors Depresses Mossy Fiberâ€“CA3 Synaptic Transmission through p38 Mitogen-Activated Protein Kinase. Journal of Neuroscience, 2002, 22, 5938-5945.	3.6	128
84	Intrinsic optical signals in the rat optic nerve: Role for K+ uptake via NKCC1 and swelling of astrocytes. Glia, 2002, 37, 114-123.	4.9	152
85	Development of Ca2+hotspots betweenLymnaeaneurons during synaptogenesis. Journal of Physiology, 2002, 539, 53-65.	2.9	32
86	P2X7-Like Receptor Activation in Astrocytes Increases Chemokine Monocyte Chemoattractant Protein-1 Expression via Mitogen-Activated Protein Kinase. Journal of Neuroscience, 2001, 21, 7135-7142.	3.6	212
87	Serine/Threonine Protein Phosphatases and Synaptic Inhibition Regulate the Expression of Cholinergic-Dependent Plateau Potentials. Journal of Neurophysiology, 2001, 85, 1197-1205.	1.8	17
88	Theta-Frequency Facilitation of AMPA Receptor-Mediated Synaptic Currents in the Principal Cells of the Medial Septum. Journal of Neurophysiology, 2001, 85, 1709-1718.	1.8	19
89	Cyclic Nucleotide-Gated Channels Contribute to the Cholinergic Plateau Potential in Hippocampal CA1 Pyramidal Neurons. Journal of Neuroscience, 2001, 21, 8707-8714.	3.6	61
90	Glutamate Release through Volume-Activated Channels during Spreading Depression. Journal of Neuroscience, 1999, 19, 6439-6445.	3.6	129

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91	An Analytical Method for Natural Channel Design. , 1998, , 362.		1
92	Mitogen-Activated Protein and Tyrosine Kinases in the Activation of Astrocyte Volume-Activated Chloride Current. Journal of Neuroscience, 1998, 18, 1196-1206.	3.6	150
93	Biophysical and Pharmacological Characterization of Voltage-Dependent Ca²⁺Channels in Neurons Isolated From Rat Nucleus Accumbens. Journal of Neurophysiology, 1998, 79, 635-647.	1.8	31
94	Imaging Spreading Depression and Associated Intracellular Calcium Waves in Brain Slices. Journal of Neuroscience, 1998, 18, 7189-7199.	3.6	195
95	REVIEW â– : Mapping Neuronal Activity by Imaging Intrinsic Optical Signals. Neuroscientist, 1997, 3, 381-388.	3.5	5
96	Disinhibition and brain rhythms.. Journal of Physiology, 1997, 500, 283-283.	2.9	1
97	Neurotrophin Modulation of NMDA Receptors in Cultured Murine and Isolated Rat Neurons. Journal of Neurophysiology, 1997, 78, 2363-2371.	1.8	113
98	Neurone-glia interactions in the hypothalamus and pituitary. Trends in Neurosciences, 1996, 19, 363-367.	8.6	88
99	In vitro ischemia promotes calcium influx and intracellular calcium release in hippocampal astrocytes. Journal of Neuroscience, 1996, 16, 71-81.	3.6	127
100	Cholinergic-Dependent Plateau Potential in Hippocampal CA1 Pyramidal Neurons. Journal of Neuroscience, 1996, 16, 4113-4128.	3.6	182
101	Imaging the induction and spread of seizure activity in the isolated brain of the guinea pig: the roles of GABA and glutamate receptors. Journal of Neurophysiology, 1996, 76, 3471-3492.	1.8	53
102	GABAA/benzodiazepine receptors in acutely isolated hippocampal astrocytes. Journal of Neuroscience, 1995, 15, 2720-2732.	3.6	137
103	Adrenergic calcium signaling in astrocyte networks within the hippocampal slice. Journal of Neuroscience, 1995, 15, 5535-5550.	3.6	198
104	NMDA-activated currents are modulated by dopamine. Schizophrenia Research, 1995, 15, 66.	2.0	0
105	Astrocytic GABA receptors. Glia, 1994, 11, 83-93.	4.9	107
106	Potassium-dependent calcium influx in acutely isolated hippocampal astrocytes. Neuroscience, 1994, 61, 51-61.	2.3	91
107	Imaging cell volume changes and neuronal excitation in the hippocampal slice. Neuroscience, 1994, 62, 371-383.	2.3	272
108	Mapping patterns of neuronal activity and seizure propagation by imaging intrinsic optical signals in the isolated whole brain of the guinea-pig. Neuroscience, 1994, 58, 461-480.	2.3	76

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109	Repeated NMDA receptor activation induces distinct intracellular calcium changes in subpopulations of striatal neurons in vitro. Brain Research, 1993, 627, 63-71.	2.2	16
110	Arachidonic acid inhibits sodium currents and synaptic transmission in cultured striatal neurons. Neuron, 1993, 11, 633-644.	8.1	95
111	A novel tetrodotoxin-insensitive, slow sodium current in striatal and hippocampal beurons. Neuron, 1993, 10, 543-552.	8.1	88
112	Blockade by funnel web toxin of a calcium current in the intermediate pituitary of the rat. Neuroscience Letters, 1993, 157, 171-174.	2.1	13
113	Multiple types of calcium channels in acutely isolated rat neostriatal neurons. Journal of Neuroscience, 1993, 13, 1244-1257.	3.6	56
114	Postsynaptic potentials mediated by GABA and dopamine evoked in stellate glial cells of the pituitary pars intermedia. Journal of Neuroscience, 1993, 13, 4660-4668.	3.6	53
115	Voltage-Dependent Ionic Channels in Astrocytes. , 1993, , 137-169.		9
116	Voltage-activated K+ currents in acutely isolated hippocampal astrocytes. Journal of Neuroscience, 1992, 12, 1781-1788.	3.6	115
117	Ca2+ - and voltage-dependent inactivation of Ca2+ currents in rat intermediate pituitary. Brain Research, 1991, 564, 12-18.	2.2	7
118	Quisqualate agonists occlude kainate-induced current in cultured striatal neurons. Neuroscience, 1991, 43, 429-436.	2.3	4
119	Low-threshold transient calcium current in rat hippocampal lacunosum- moleculare interneurons: kinetics and modulation by neurotransmitters. Journal of Neuroscience, 1991, 11, 2812-2820.	3.6	98
120	Imaging of synaptically evoked intrinsic optical signals in hippocampal slices. Journal of Neuroscience, 1991, 11, 1458-1469.	3.6	279
121	Neurotransmitter-Mediated Changes in the Electrophysiological Properties of Pituicytes. Journal of Neuroendocrinology, 1991, 3, 433-439.	2.6	11
122	Modulation of intracellular Ca++ in cultured astrocytes by influx through voltage-activated Ca++ channels. Glia, 1991, 4, 448-455.	4.9	84
123	Synaptic modulation by dopamine of calcium currents in rat pars intermedia. Journal of Neuroscience, 1990, 10, 757-763.	3.6	67
124	Electrophysiological properties of neuroendocrine cells of the intact rat pars intermedia: multiple calcium currents. Journal of Neuroscience, 1990, 10, 748-756.	3.6	44
125	Electrophysiological properties of reactive glial cells in the kainate-lesioned hippocampal slice. Brain Research, 1990, 510, 43-52.	2.2	30
126	GABA-activated Cl- channels in astrocytes of hippocampal slices. Journal of Neuroscience, 1989, 9, 3577-3583.	3.6	183

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127	Phosphoinositides and GTP binding proteins involved in muscarinic generation of hippocampal rhythmic slow activity. Neuroscience Letters, 1989, 102, 58-63.	2.1	18
128	A dopaminergic inhibitory postsynaptic potential mediated by an increased potassium conductance. Neuroscience, 1989, 31, 673-681.	2.3	55
129	Identification of a GABA-activated chloride-mediated synaptic potential in rat pars intermedia. Brain Research, 1989, 483, 130-134.	2.2	16
130	Local neuronal circuitry underlying cholinergic rhythmical slow activity in CA3 area of rat hippocampal slices.. Journal of Physiology, 1989, 417, 197-212.	2.9	148
131	Norepinephrine and cyclic adenosine 3?:5?-cyclic monophosphate enhance a nifedipine-sensitive calcium current in cultured rat astrocytes. Glia, 1988, 1, 359-365.	4.9	97
132	Kainic acid evokes a potassium efflux from astrocytes. Neuroscience, 1988, 25, 721-725.	2.3	31
133	Electrophysiological Methods for Studying Ionic Currents in Brain Slices and Cell Cultures. , 1988, , 545-588.		1
134	Dye and electrotonic coupling between cultured hippocampal neurons. Neuroscience Letters, 1987, 78, 265-270.	2.1	18
135	Morphological differentiation of cultured astrocytes is blocked by cadmium or cobalt. Brain Research, 1987, 420, 175-177.	2.2	42
136	Inhibition of synaptic transmission in the hippocampus by cholecystokinin (CCK) and its antagonism by a CCK analog (CCK27â€“33). Brain Research, 1987, 406, 130-135.	2.2	34
137	Membrane conductance oscillations in astrocytes induced by phorbol ester. Nature, 1987, 329, 242-243.	27.8	49
138	Calcium activated potassium channels in cultured astrocytes. Neuroscience, 1986, 19, 29-41.	2.3	138
139	Novel synaptic responses mediated by dopamine and Î³-aminobutyric acid in neuroendocrine cells of the intermediate pituitary. Neuroscience Letters, 1986, 64, 35-40.	2.1	21
140	Uncoupling of CA3 pyramidal neurons by propionate. Brain Research, 1985, 330, 141-145.	2.2	52
141	Depolarizing prepotentials are Na+ dependent in CA1 pyramidal neurons. Brain Research, 1985, 333, 378-381.	2.2	57
142	Voltage-dependent calcium channels in glial cells. Science, 1984, 226, 1345-1347.	12.6	340
143	Infrared video microscopy to visualize neurons in the in vitro brain slice preparation. Journal of Neuroscience Methods, 1984, 12, 133-139.	2.5	65
144	A reliable method for immunocytochemical identification of Lucifer Yellow injected, peptide-containing mammalian central neurons. Journal of Neuroscience Methods, 1984, 10, 59-69.	2.5	32

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145	An incubation chamber for the simultaneous, on-slide treatment of brain sections with different reagents. Brain Research Bulletin, 1984, 12, 745-747.	3.0	4
146	Polyethylene glycol embedding: a technique compatible with immunocytochemistry, enzyme histochemistry, histofluorescence and intracellular staining. Journal of Neuroscience Methods, 1983, 7, 27-41.	2.5	102
147	Dye-coupling between pyramidal cells of rat hippocampus in vivo. Brain Research, 1982, 238, 239-244.	2.2	81
148	Synaptic inputs and action potentials of magnocellular neuropeptidergic cells: Intracellular recording and staining in slices of rat hypothalamus. Brain Research Bulletin, 1982, 8, 87-93.	3.0	20
149	Electrotonic coupling between granule cells of rat dentate gyrus: physiological and anatomical evidence.. Journal of Neurophysiology, 1982, 47, 579-592.	1.8	161
150	Paradoxical effects of lithium on field potentials of dentate granule cells in slices of rat hippocampus. Neuropharmacology, 1981, 20, 489-496.	4.1	8
151	Electrotonic coupling between pyramidal cells: a direct demonstration in rat hippocampal slices. Science, 1981, 213, 782-785.	12.6	318
152	Dye transfer through gap junctions between neuroendocrine cells of rat hypothalamus. Science, 1981, 211, 1187-1189.	12.6	181
153	Intracellular recordings from the paraventricular nucleus in slices of rat hypothalamus.. Journal of Physiology, 1980, 301, 101-114.	2.9	58
154	Dye-coupling between CA3 pyramidal cells in slices of rat hippocampus. Brain Research, 1980, 196, 494-497.	2.2	199
155	Local synaptic circuits in rat hippocampus: interactions between pyramidal cells. Brain Research, 1980, 184, 220-223.	2.2	214
156	Intracellular recordings from hippocampal CA3 pyramidal cells during repetitive activation of the mossy fibers in vitro. Brain Research, 1979, 168, 377-381.	2.2	18