Bradley E Alger

List of Publications by Year
in descending order

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63	4,554	117625	123424
papers	citations	34 h-index	61 g-index

63	63	63	3971
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Retrograde signaling in the regulation of synaptic transmission: focus on endocannabinoids. Progress in Neurobiology, 2002, 68, 247-286.	5.7	531
2	Metabotropic Glutamate Receptors Drive the Endocannabinoid System in Hippocampus. Journal of Neuroscience, 2001, 21, RC188-RC188.	3.6	347
3	Endocannabinoids facilitate the induction of LTP in the hippocampus. Nature Neuroscience, 2002, 5, 723-724.	14.8	296
4	Activation of Muscarinic Acetylcholine Receptors Enhances the Release of Endogenous Cannabinoids in the Hippocampus. Journal of Neuroscience, 2002, 22, 10182-10191.	3.6	279
5	Inhibition of cyclooxygenase-2 potentiates retrograde endocannabinoid effects in hippocampus. Nature Neuroscience, 2004, 7, 697-698.	14.8	231
6	Supply and demand for endocannabinoids. Trends in Neurosciences, 2011, 34, 304-315.	8.6	231
7	Random Response Fluctuations Lead to Spurious Paired-Pulse Facilitation. Journal of Neuroscience, 2001, 21, 9608-9618.	3.6	138
8	Reduction in endocannabinoid tone is a homeostatic mechanism for specific inhibitory synapses. Nature Neuroscience, 2010, 13, 592-600.	14.8	132
9	Weeding out bad waves: towards selective cannabinoid circuit control in epilepsy. Nature Reviews Neuroscience, 2015, 16, 264-277.	10.2	124
10	Acute restraint stress enhances hippocampal endocannabinoid function via glucocorticoid receptor activation. Journal of Psychopharmacology, 2012, 26, 56-70.	4.0	120
11	Mechanisms of Neuronal Hyperexcitability Caused by Partial Inhibition of Na+-K+-ATPases in the Rat CA1 Hippocampal Region. Journal of Neurophysiology, 2002, 88, 2963-2978.	1.8	117
12	Synaptic Cross Talk between Perisomatic-Targeting Interneuron Classes Expressing Cholecystokinin and Parvalbumin in Hippocampus. Journal of Neuroscience, 2009, 29, 4140-4154.	3.6	116
13	Evidence for Metabotropic Glutamate Receptor Activation in the Induction of Depolarization-Induced Suppression of Inhibition in Hippocampal CA1. Journal of Neuroscience, 1998, 18, 4870-4882.	3.6	111
14	Multiple Mechanisms of Endocannabinoid Response Initiation in Hippocampus. Journal of Neurophysiology, 2006, 95, 67-75.	1.8	109
15	Enhanced Endocannabinoid Signaling Elevates Neuronal Excitability in Fragile X Syndrome. Journal of Neuroscience, 2010, 30, 5724-5729.	3.6	96
16	Nerve Terminal Nicotinic Acetylcholine Receptors Initiate Quantal GABA Release from Perisomatic Interneurons by Activating Axonal T-Type (Ca_v3) Ca²⁺Channels and Ca²⁺Release from Stores. Journal of Neuroscience, 2011, 31, 13546-13561.	3.6	84
17	Endocannabinoids at the synapse a decade after the dies mirabilis (29 March 2001): what we still do not know. Journal of Physiology, 2012, 590, 2203-2212.	2.9	71
18	Interlamellar CA1 network in the hippocampus. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 12919-12924.	7.1	63

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19	Endocannabinoid Signaling Dynamics Probed with Optical Tools. Journal of Neuroscience, 2005, 25, 9449-9459.	3.6	60
20	Homosynaptic LTD and depotentiation: Do they differ in name only?. , 1996, 6, 24-29.		59
21	Retrograde endocannabinoid regulation of GABAergic inhibition in the rat dentate gyrus granule cell. Journal of Physiology, 2005, 567, 1001-1010.	2.9	58
22	Ryanodine Receptor Regulates Endogenous Cannabinoid Mobilization in the Hippocampus. Journal of Neurophysiology, 2006, 95, 3001-3011.	1.8	54
23	Metaplastic control of the endocannabinoid system at inhibitory synapses in hippocampus. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 8142-8147.	7.1	54
24	Neuronal muscarinic responses: role of protein kinase C. FASEB Journal, 1988, 2, 2575-2583.	0.5	51
25	Endocannabinoids and Their Implications for Epilepsy. Epilepsy Currents, 2004, 4, 169-173.	0.8	51
26	Cholecystokinin inhibits endocannabinoid-sensitive hippocampal IPSPs and stimulates others. Neuropharmacology, 2008, 54, 117-128.	4.1	51
27	High Intracellular Cl^{â^'}Concentrations Depress G-Protein-Modulated Ionic Conductances. Journal of Neuroscience, 1997, 17, 6133-6141.	3.6	48
28	Optogenetic Release of ACh Induces Rhythmic Bursts of Perisomatic IPSCs in Hippocampus. PLoS ONE, 2011, 6, e27691.	2.5	48
29	N-Ethylmaleimide Blocks Depolarization-Induced Suppression of Inhibition and Enhances GABA Release in the Rat Hippocampal SliceIn Vitro. Journal of Neuroscience, 1997, 17, 941-950.	3.6	44
30	The Brain's Own Marijuana. Scientific American, 2004, 291, 68-75.	1.0	42
31	Regulation of Exocytosis from Single Visualized GABAergic Boutons in Hippocampal Slices. Journal of Neuroscience, 2003, 23, 10475-10486.	3.6	41
32	Presynaptic factors in the regulation of DSI expression in hippocampus. Neuropharmacology, 2002, 43, 550-562.	4.1	39
33	Transient heterosynaptic depression in the hippocampal slice. Brain Research Bulletin, 1978, 3, 181-184.	3.0	37
34	Optogenetic identification of an intrinsic cholinergically driven inhibitory oscillator sensitive to cannabinoids and opioids in hippocampal CA1. Journal of Physiology, 2014, 592, 103-123.	2.9	37
35	Regulation of IPSP Theta Rhythm by Muscarinic Receptors and Endocannabinoids in Hippocampus. Journal of Neurophysiology, 2005, 94, 4290-4299.	1.8	36
36	Muscarinic cholinergic receptors modulate inhibitory synaptic rhythms in hippocampus and neocortex. Frontiers in Synaptic Neuroscience, 2014, 6, 18.	2.5	36

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37	Endocannabinoids Generated by Ca2+ or by Metabotropic Glutamate Receptors Appear to Arise from Different Pools of Diacylglycerol Lipase. PLoS ONE, 2011, 6, e16305.	2.5	35
38	Evidence for Endogenous Excitatory Amino Acids as Mediators in DSI of GABAAergic Transmission in Hippocampal CA1. Journal of Neurophysiology, 1999, 82, 2556-2564.	1.8	34
39	Homer Proteinâ€“Metabotropic Glutamate Receptor Binding Regulates Endocannabinoid Signaling and Affects Hyperexcitability in a Mouse Model of Fragile X Syndrome. Journal of Neuroscience, 2015, 35, 3938-3945.	3.6	34
40	An Improved Test for Detecting Multiplicative Homeostatic Synaptic Scaling. PLoS ONE, 2012, 7, e37364.	2.5	33
41	Endocannabinoids: Getting the message across. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 8512-8513.	7.1	32
42	Novel Form of LTD Induced by Transient, Partial Inhibition of the Na,K-Pump in Rat Hippocampal CA1 Cells. Journal of Neurophysiology, 2004, 91, 239-247.	1.8	27
43	Potassium and short-term response plasticity in the hippocampal slice. Brain Research, 1978, 159, 239-242.	2.2	26
44	Evidence for hippocampal calcium channel regulation by PKC based on comparison of diacylglycerols and phorbol esters. Brain Research, 1992, 597, 30-40.	2.2	25
45	Direct Depolarization and Antidromic Action Potentials Transiently Suppress Dendritic IPSPs in Hippocampal CA1 Pyramidal Cells. Journal of Neurophysiology, 2001, 85, 480-484.	1.8	25
46	A monosynaptic fiber track studied in vitro: Evidence of a hippocampal CA1 associational system?. Brain Research Bulletin, 1977, 2, 355-365.	3.0	23
47	Seizing an Opportunity for the Endocannabinoid System. Epilepsy Currents, 2014, 14, 272-276.	0.8	22
48	Endocannabinoid Identification in the Brain: Studies of Breakdown Lead to Breakthrough, and There May Be NO Hope. Science Signaling, 2005, 2005, pe51-pe51.	3.6	21
49	Endocannabinoid Signaling in Neural Plasticity. Current Topics in Behavioral Neurosciences, 2009, 1, 141-172.	1.7	21
50	Spectrins in developing rat hippocampal cells. Developmental Brain Research, 2001, 129, 81-93.	1.7	20
51	A comparison of long-term potentiation in the in vitro and in vivo hippocampal preparations. Behavioral Biology, 1977, 19, 24-34.	2.2	19
52	Evidence of calcium-permeable AMPA receptors in dendritic spines of CA1 pyramidal neurons. Journal of Neurophysiology, 2014, 112, 263-275.	1.8	17
53	Distinctions among GABAA and GABAB responses revealed by calcium channel antagonists, cannabinoids, opioids, and synaptic plasticity in rat hippocampus. Psychopharmacology, 2008, 198, 539-549.	3.1	14
54	Dendritic Hold and Read: A Gated Mechanism for Short Term Information Storage and Retrieval. PLoS ONE, 2012, 7, e37542.	2.5	14

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55	Whole-cell voltage-clamp investigation of the role of PKC in muscarinic inhibition of IAHP in rat CA1 hippocampal neurons. , 1996, 6, 183-191.		13
56	Not Too Excited? Thank Your Endocannabinoids. Neuron, 2006, 51, 393-395.	8.1	13
57	Papain effects on rat hippocampal neurons in the slice preparation. Neuroscience Letters, 1987, 78, 307-310.	2.1	10
58	Calcium-dependent pirenzepine-sensitive muscarinic response in the rat hippocampal slice. Neuroscience Letters, 1988, 91, 177-182.	2.1	9
59	Do cannabinoids reduce brain power?. Nature Neuroscience, 2012, 15, 499-501.	14.8	7
60	Developmental increase in hippocampal endocannabinoid mobilization: role of metabotropic glutamate receptor subtype 5 and phospholipase C. Journal of Neurophysiology, 2014, 112, 2605-2615.	1.8	7
61	The Depolarizing Action of GABA in Cultured Hippocampal Neurons Is Not Due to the Absence of Ketone Bodies. PLoS ONE, 2011, 6, e23020.	2.5	6
62	Scientific Hypothesis-Testing Strengthens Neuroscience Research. ENeuro, 2020, 7, ENEURO.0357-19.2020.	1.9	3
63	Novel mGluR- and CB1R-Independent Suppression of GABA Release Caused by a Contaminant of the Group I Metabotropic Glutamate Receptor Agonist, DHPG. PLoS ONE, 2009, 4, e6122.	2.5	2