David J Linden

List of Publications by Year in descending order

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105 papers	13,983 citations	27035 58 h-index	37326 100 g-index
108 all docs	108 docs citations	108 times ranked	11689 citing authors

#	Article	IF	Citations
1	Persistently Elevated mTOR Complex 1-S6 Kinase 1 Disrupts DARPP-32â€“Dependent D1 Dopamine Receptor Signaling and Behaviors. Biological Psychiatry, 2021, 89, 1058-1072.	0.7	8
2	Fast serotonin voltammetry as a versatile tool for mapping dynamic tissue architecture: I. Responses at carbon fibers describe local tissue physiology. Journal of Neurochemistry, 2020, 153, 33-50.	2.1	28
3	Catecholaminergic axons in the neocortex of adult mice regrow following brain injury. Experimental Neurology, 2020, 323, 113089.	2.0	13
4	A Late Phase of Long-Term Synaptic Depression in Cerebellar Purkinje Cells Requires Activation of MEF2. Cell Reports, 2019, 26, 1089-1097.e3.	2.9	12
5	Arc Oligomerization Is Regulated by CaMKII Phosphorylation of the GAG Domain: An Essential Mechanism for Plasticity and Memory Formation. Molecular Cell, 2019, 75, 13-25.e5.	4.5	31
6	Estrogen-Dependent Functional Spine Dynamics in Neocortical Pyramidal Neurons of the Mouse. Journal of Neuroscience, 2019, 39, 4874-4888.	1.7	17
7	Serotonin axons in the neocortex of the adult female mouse regrow after traumatic brain injury. Journal of Neuroscience Research, 2018, 96, 512-526.	1.3	28
8	Cerebral vascular structure in the motor cortex of adult mice is stable and is not altered by voluntary exercise. Journal of Cerebral Blood Flow and Metabolism, 2017, 37, 3725-3743.	2.4	44
9	Expression of mutant DISC1 in Purkinje cells increases their spontaneous activity and impairs cognitive and social behaviors in mice. Neurobiology of Disease, 2017, 103, 144-153.	2.1	17
10	494. Selective Expression of Mutant DISC1 in Purkinje Cells Increased Their Spontaneous Activity and Produced Cognitive Abnormalities Relevant to Autism Spectrum Disorders. Biological Psychiatry, 2017, 81, S201.	0.7	0
11	STIM1 Regulates Somatic Ca²⁺Signals and Intrinsic Firing Properties of Cerebellar Purkinje Neurons. Journal of Neuroscience, 2017, 37, 8876-8894.	1.7	68
12	In VivoImaging of CNS Injury and Disease. Journal of Neuroscience, 2017, 37, 10808-10816.	1.7	24
13	Regrowth of Serotonin Axons in the Adult Mouse Brain Following Injury. Neuron, 2016, 91, 748-762.	3.8	75
14	Visualization of NMDA receptorâ€“dependent AMPA receptor synaptic plasticity in vivo. Nature Neuroscience, 2015, 18, 402-407.	7.1	143
15	Chronic In Vivo Imaging of Ponto-Cerebellar Mossy Fibers Reveals Morphological Stability during Whisker Sensory Manipulation in the Adult Rat. ENeuro, 2015, 2, ENEURO.0075-15.2015.	0.9	6
16	A Prolyl-Isomerase Mediates Dopamine-Dependent Plasticity and Cocaine Motor Sensitization. Cell, 2013, 154, 637-650.	13.5	61
17	DHHC8-Dependent PICK1 Palmitoylation is Required for Induction of Cerebellar Long-Term Synaptic Depression. Journal of Neuroscience, 2013, 33, 15401-15407.	1.7	58
18	PICK1 interacts with PACSIN to regulate AMPA receptor internalization and cerebellar long-term depression. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 13976-13981.	3.3	68

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19	Characterizing the conductance underlying depolarization-induced slow current in cerebellar Purkinje cells. Journal of Neurophysiology, 2013, 109, 1174-1181.	0.9	36
20	Hedgehog Agonist Therapy Corrects Structural and Cognitive Deficits in a Down Syndrome Mouse Model. Science Translational Medicine, 2013, 5, 201ra120.	5.8	129
21	A late phase of LTD in cultured cerebellar Purkinje cells requires persistent dynamin-mediated endocytosis. Journal of Neurophysiology, 2012, 107, 448-454.	0.9	19
22	Calcium Influx Measured at Single Presynaptic Boutons of Cerebellar Granule Cell Ascending Axons and Parallel Fibers. Cerebellum, 2012, 11, 121-131.	1.4	20
23	Reevaluating the Role of LTD in Cerebellar Motor Learning. Neuron, 2011, 70, 43-50.	3.8	291
24	SRF binding to SRE 6.9 in the Arc promoter is essential for LTD in cultured Purkinje cells. Nature Neuroscience, 2010, 13, 1082-1089.	7.1	72
25	Narp regulates homeostatic scaling of excitatory synapses on parvalbumin-expressing interneurons. Nature Neuroscience, 2010, 13, 1090-1097.	7.1	243
26	Homeostatic Scaling Requires Group I mGluR Activation Mediated by Homer1a. Neuron, 2010, 68, 1128-1142.	3.8	227
27	Journal of Neurophysiology and the Neuroscience Peer Review Consortium (NPRC). Journal of Neurophysiology, 2010, 103, 1707-1707.	0.9	0
28	Neuromodulation at Single Presynaptic Boutons of Cerebellar Parallel Fibers Is Determined by Bouton Size and Basal Action Potential-Evoked Ca Transient Amplitude. Journal of Neuroscience, 2009, 29, 15586-15594.	1.7	36
29	Dopamine Signaling Is Required for Depolarization-Induced Slow Current in Cerebellar Purkinje Cells. Journal of Neuroscience, 2009, 29, 8530-8538.	1.7	45
30	Depolarization-induced slow current in cerebellar Purkinje cells does not require metabotropic glutamate receptor 1. Neuroscience, 2009, 162, 688-693.	1.1	10
31	Is There Gender Bias in the Peer Review Process at Journal of Neurophysiology?. Journal of Neurophysiology, 2009, 101, 2195-2196.	0.9	15
32	Preprint Servers and the Journal of Neurophysiology. Journal of Neurophysiology, 2009, 102, 2577-2577.	0.9	0
33	mGluR1/5-Dependent Long-Term Depression Requires the Regulated Ectodomain Cleavage of Neuronal Pentraxin NPR by TACE. Neuron, 2008, 57, 858-871.	3.8	106
34	Elongation Factor 2 and Fragile X Mental Retardation Protein Control the Dynamic Translation of Arc/Arg3.1 Essential for mGluR-LTD. Neuron, 2008, 59, 70-83.	3.8	471
35	The Glutamate Receptor-Interacting Protein Family of GluR2-Binding Proteins Is Required for Long-Term Synaptic Depression Expression in Cerebellar Purkinje Cells. Journal of Neuroscience, 2008, 28, 5752-5755.	1.7	68
36	Transient Upregulation of Postsynaptic IP₃-Gated Ca Release Underlies Short-Term Potentiation of Metabotropic Glutamate Receptor 1 Signaling in Cerebellar Purkinje Cells. Journal of Neuroscience, 2008, 28, 4350-4355.	1.7	17

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37	Dendritic glutamate release produces autocrine activation of mGluR1 in cerebellar Purkinje cells. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 746-750.	3.3	23
38	Warm, Fuzzy Feeling. Journal of Neurophysiology, 2008, 100, 1-1.	0.9	0
39	Introducing Neuro Forum, a Section for Young Neurophysiologists. Journal of Neurophysiology, 2008, 100, 1159-1159.	0.9	2
40	Cytosolic phospholipase A2 alpha mediates electrophysiologic responses of hippocampal pyramidal neurons to neurotoxic NMDA treatment. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 6078-6083.	3.3	30
41	Long-Term Depression of mGluR1 Signaling. Neuron, 2007, 55, 277-287.	3.8	37
42	Axonal Motility and Its Modulation by Activity Are Branch-Type Specific in the Intact Adult Cerebellum. Neuron, 2007, 56, 472-487.	3.8	84
43	Ubiquitous Plasticity and Memory Storage. Neuron, 2007, 56, 582-592.	3.8	171
44	Pure spillover transmission between neurons. Nature Neuroscience, 2007, 10, 675-677.	7.1	14
45	Double dissociation between long-term depression and dendritic spine morphology in cerebellar Purkinje cells. Nature Neuroscience, 2007, 10, 546-548.	7.1	64
46	Targeted In Vivo Mutations of the AMPA Receptor Subunit GluR2 and Its Interacting Protein PICK1 Eliminate Cerebellar Long-Term Depression. Neuron, 2006, 49, 845-860.	3.8	266
47	Dynamic imaging of cerebellar Purkinje cells reveals a population of filopodia which crossâ€link dendrites during early postnatal development. Cerebellum, 2006, 5, 105-115.	1.4	15
48	Long-Term Depression at the Mossy Fiber-Deep Cerebellar Nucleus Synapse. Journal of Neuroscience, 2006, 26, 6935-6944.	1.7	100
49	A Double-Blind, Randomized, Placebo-Controlled Trial of Oxcarbazepine in the Treatment of Bipolar Disorder in Children and Adolescents. American Journal of Psychiatry, 2006, 163, 1179-1186.	4.0	177
50	SRF mediates activity-induced gene expression and synaptic plasticity but not neuronal viability. Nature Neuroscience, 2005, 8, 759-767.	7.1	197
51	An NMDA Receptor/Nitric Oxide Cascade Is Involved in Cerebellar LTD But Is Not Localized to the Parallel Fiber Terminal. Journal of Neurophysiology, 2005, 94, 4281-4289.	0.9	107
52	Long-Term Potentiation of Neuronal Glutamate Transporters. Neuron, 2005, 46, 715-722.	3.8	31
53	N-ethylmaleimide-sensitive factor is required for the synaptic incorporation and removal of AMPA receptors during cerebellar long-term depression. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 18212-18216.	3.3	64
54	Differential Maturation of Climbing Fiber Innervation in Cerebellar Vermis. Journal of Neuroscience, 2004, 24, 3926-3932.	1.7	37

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55	Adapter protein 14-3-3 is required for a presynaptic form of LTP in the cerebellum. Nature Neuroscience, 2004, 7, 1296-1298.	7.1	48
56	Persistent changes in the intrinsic excitability of rat deep cerebellar nuclear neurones induced by EPSP or IPSP bursts. Journal of Physiology, 2004, 561, 703-719.	1.3	44
57	A Unique PDZ Ligand in PKCÎ± Confers Induction of Cerebellar Long-Term Synaptic Depression. Neuron, 2004, 44, 585-594.	3.8	118
58	The other side of the engram: experience-driven changes in neuronal intrinsic excitability. Nature Reviews Neuroscience, 2003, 4, 885-900.	4.9	743
59	Activation of the TRPC1 cation channel by metabotropic glutamate receptor mGluR1. Nature, 2003, 426, 285-291.	13.7	325
60	NEUROSCIENCE: From Molecules to Memory in the Cerebellum. Science, 2003, 301, 1682-1685.	6.0	64
61	Requirement of AMPA Receptor GluR2 Phosphorylation for Cerebellar Long-Term Depression. Science, 2003, 300, 1751-1755.	6.0	320
62	Phosphorylation of RIM1Î± by PKA Triggers Presynaptic Long-Term Potentiation at Cerebellar Parallel Fiber Synapses. Cell, 2003, 115, 49-60.	13.5	232
63	Long-term depression of climbing fiber-evoked calcium transients in Purkinje cell dendrites. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 2878-2883.	3.3	64
64	Morphological Correlates of Intrinsic Electrical Excitability in Neurons of the Deep Cerebellar Nuclei. Journal of Neurophysiology, 2003, 89, 1738-1747.	0.9	77
65	Cerebellar Long-Term Synaptic Depression Requires PKC-Mediated Activation of CPI-17, a Myosin/Moesin Phosphatase Inhibitor. Neuron, 2002, 36, 1145-1158.	3.8	95
66	Glutamate release during LTD at cerebellar climbing fiberâ€“Purkinje cell synapses. Nature Neuroscience, 2002, 5, 725-726.	7.1	34
67	Beyond parallel fiber LTD: the diversity of synaptic and non-synaptic plasticity in the cerebellum. Nature Neuroscience, 2001, 4, 467-475.	7.1	557
68	The expression of cerebellar LTD in culture is not associated with changes in AMPA-receptor kinetics, agonist affinity, or unitary conductance. Proceedings of the National Academy of Sciences of the United States of America, 2001, 98, 14066-14071.	3.3	56
69	Rapid, synaptically driven increases in the intrinsic excitability of cerebellar deep nuclear neurons. Nature Neuroscience, 2000, 3, 109-111.	7.1	244
70	Cannabinoid Receptor Modulation of Synapses Received by Cerebellar Purkinje Cells. Journal of Neurophysiology, 2000, 83, 1167-1180.	0.9	157
71	Impaired Synaptic Plasticity and cAMP Response Element-Binding Protein Activation in Ca²⁺/Calmodulin-Dependent Protein Kinase Type IV/Gr-Deficient Mice. Journal of Neuroscience, 2000, 20, 6459-6472.	1.7	234
72	Use-dependent changes in synaptic strength at the Purkinje cell to deep nuclear synapse. Progress in Brain Research, 2000, 124, 257-273.	0.9	19

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73	Cerebellar Long-Term Depression Requires PKC-Regulated Interactions between GluR2/3 and PDZ Domainâ€“Containing Proteins. Neuron, 2000, 28, 499-510.	3.8	357
74	Expression of Cerebellar Long-Term Depression Requires Postsynaptic Clathrin-Mediated Endocytosis. Neuron, 2000, 25, 635-647.	3.8	445
75	Long-Term Depression of the Cerebellar Climbing Fiberâ€“Purkinje Neuron Synapse. Neuron, 2000, 26, 473-482.	3.8	213
76	Activation of Presynaptic cAMP-Dependent Protein Kinase Is Required for Induction of Cerebellar Long-Term Potentiation. Journal of Neuroscience, 1999, 19, 10221-10227.	1.7	92
77	Regulation of the Rebound Depolarization and Spontaneous Firing Patterns of Deep Nuclear Neurons in Slices of Rat Cerebellum. Journal of Neurophysiology, 1999, 82, 1697-1709.	0.9	293
78	The Return of the Spike. Neuron, 1999, 22, 661-666.	3.8	180
79	A Late Phase of Cerebellar Long-Term Depression Requires Activation of CaMKIV and CREB. Neuron, 1999, 23, 559-568.	3.8	160
80	Synaptic Transmission and Hippocampal Long-Term Potentiation in Transgenic Mice Expressing FAD-Linked Presenilin 1. Neurobiology of Disease, 1999, 6, 56-62.	2.1	109
81	Impaired Cerebellar Long-Term Potentiation in Type I Adenylyl Cyclase Mutant Mice. Neuron, 1998, 20, 1199-1210.	3.8	148
82	Homer Binds a Novel Proline-Rich Motif and Links Group 1 Metabotropic Glutamate Receptors with IP3 Receptors. Neuron, 1998, 21, 717-726.	3.8	801
83	Polarity of Long-Term Synaptic Gain Change Is Related to Postsynaptic Spike Firing at a Cerebellar Inhibitory Synapse. Neuron, 1998, 21, 827-835.	3.8	218
84	Expression of a Protein Kinase C Inhibitor in Purkinje Cells Blocks Cerebellar LTD and Adaptation of the Vestibulo-Ocular Reflex. Neuron, 1998, 20, 495-508.	3.8	383
85	Synaptic Transmission and Hippocampal Long-Term Potentiation in Olfactory Cyclic Nucleotide-Gated Channel Type 1 Null Mouse. Journal of Neurophysiology, 1998, 79, 3295-3301.	0.9	45
86	Synaptically Evoked Glutamate Transport Currents May Be Used To Detect the Expression of Long-Term Potentiation in Cerebellar Culture. Journal of Neurophysiology, 1998, 79, 3151-3156.	0.9	51
87	Inositol-1,4,5-Trisphosphate Receptor-Mediated Ca Mobilization Is Not Required for Cerebellar Long-Term Depression in Reduced Preparations. Journal of Neurophysiology, 1998, 80, 2963-2974.	0.9	33
88	Long-Term Potentiation of Glial Synaptic Currents in Cerebellar Culture. Neuron, 1997, 18, 983-994.	3.8	74
89	Neurodegeneration in Lurcher mice caused by mutation in Î´2 glutamate receptor gene. Nature, 1997, 388, 769-773.	13.7	522
90	Cerebellar long-term depression as investigated in a cell culture preparation. , 1997, , 1-8.		0

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91	Defining a Minimal Computational Unit for Cerebellar Long-Term Depression. Neuron, 1996, 17, 333-341.	3.8	41
92	A Protein Synthesisâ€“Dependent Late Phase of Cerebellar Long-Term Depression. Neuron, 1996, 17, 483-490.	3.8	138
93	Cerebellar long-term depression as investigated in a cell culture preparation. Behavioral and Brain Sciences, 1996, 19, 339-346.	0.4	41
94	A cerebellar long-term depression update. Behavioral and Brain Sciences, 1996, 19, 482-487.	0.4	2
95	Phospholipase A2 controls the induction of short-term versus long-term depression in the cerebellar Purkinje neuron in culture. Neuron, 1995, 15, 1393-1401.	3.8	94
96	Long-term synaptic depression in the mammalian brain. Neuron, 1994, 12, 457-472.	3.8	475
97	Cellular mechanisms of long-term depression in the cerebellum. Current Opinion in Neurobiology, 1993, 3, 401-406.	2.0	159
98	Induction of cerebellar long-term depression in culture requires postsynaptic action of Sodium Ions. Neuron, 1993, 11, 1093-1100.	3.8	120
99	Long-term Depression of Glutamate Currents in Cultured Cerebellar Purkinje Neurons Does Not Require Nitric Oxide Signalling. European Journal of Neuroscience, 1992, 4, 10-15.	1.2	125
100	A long-term depression of AMPA currents in cultured cerebellar purkinje neurons. Neuron, 1991, 7, 81-89.	3.8	441
101	Phosphoproteins localized to presynaptic terminal linked to persistence of long-term potentiation (LTP): quantitative analysis of two-dimensional gels. Brain Research, 1989, 497, 30-42.	1.1	34
102	The role of protein kinase C in long-term potentiation: a testable model. Brain Research Reviews, 1989, 14, 279-296.	9.1	378
103	NMDA receptor blockade prevents the increase in protein kinase C substrate (protein F1) phosphorylation produced by long-term potentiation. Brain Research, 1988, 458, 142-146.	1.1	185
104	A newly discovered protein kinase C activator (oleic acid) enhances long-term potentiation in the intact hippocampus. Brain Research, 1986, 379, 358-363.	1.1	72
105	Phorbol ester promotes growth of synaptic plasticity. Brain Research, 1986, 378, 374-378.	1.1	81