

David J Linden

List of Publications by Year in descending order

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105
papers

13,983
citations

23567

58
h-index

32842

100
g-index

108
all docs

108
docs citations

108
times ranked

10444
citing authors

#	ARTICLE	IF	CITATIONS
1	Homer Binds a Novel Proline-Rich Motif and Links Group 1 Metabotropic Glutamate Receptors with IP3 Receptors. <i>Neuron</i> , 1998, 21, 717-726.	8.1	801
2	The other side of the engram: experience-driven changes in neuronal intrinsic excitability. <i>Nature Reviews Neuroscience</i> , 2003, 4, 885-900.	10.2	743
3	Beyond parallel fiber LTD: the diversity of synaptic and non-synaptic plasticity in the cerebellum. <i>Nature Neuroscience</i> , 2001, 4, 467-475.	14.8	557
4	Neurodegeneration in Lurcher mice caused by mutation in $\hat{I}2$ glutamate receptor gene. <i>Nature</i> , 1997, 388, 769-773.	27.8	522
5	Long-term synaptic depression in the mammalian brain. <i>Neuron</i> , 1994, 12, 457-472.	8.1	475
6	Elongation Factor 2 and Fragile X Mental Retardation Protein Control the Dynamic Translation of Arc/Arg3.1 Essential for mGluR-LTD. <i>Neuron</i> , 2008, 59, 70-83.	8.1	471
7	Expression of Cerebellar Long-Term Depression Requires Postsynaptic Clathrin-Mediated Endocytosis. <i>Neuron</i> , 2000, 25, 635-647.	8.1	445
8	A long-term depression of AMPA currents in cultured cerebellar purkinje neurons. <i>Neuron</i> , 1991, 7, 81-89.	8.1	441
9	Expression of a Protein Kinase C Inhibitor in Purkinje Cells Blocks Cerebellar LTD and Adaptation of the Vestibulo-Ocular Reflex. <i>Neuron</i> , 1998, 20, 495-508.	8.1	383
10	The role of protein kinase C in long-term potentiation: a testable model. <i>Brain Research Reviews</i> , 1989, 14, 279-296.	9.0	378
11	Cerebellar Long-Term Depression Requires PKC-Regulated Interactions between GluR2/3 and PDZ Domain-Containing Proteins. <i>Neuron</i> , 2000, 28, 499-510.	8.1	357
12	Activation of the TRPC1 cation channel by metabotropic glutamate receptor mGluR1. <i>Nature</i> , 2003, 426, 285-291.	27.8	325
13	Requirement of AMPA Receptor GluR2 Phosphorylation for Cerebellar Long-Term Depression. <i>Science</i> , 2003, 300, 1751-1755.	12.6	320
14	Regulation of the Rebound Depolarization and Spontaneous Firing Patterns of Deep Nuclear Neurons in Slices of Rat Cerebellum. <i>Journal of Neurophysiology</i> , 1999, 82, 1697-1709.	1.8	293
15	Reevaluating the Role of LTD in Cerebellar Motor Learning. <i>Neuron</i> , 2011, 70, 43-50.	8.1	291
16	Targeted In Vivo Mutations of the AMPA Receptor Subunit GluR2 and Its Interacting Protein PICK1 Eliminate Cerebellar Long-Term Depression. <i>Neuron</i> , 2006, 49, 845-860.	8.1	266
17	Rapid, synaptically driven increases in the intrinsic excitability of cerebellar deep nuclear neurons. <i>Nature Neuroscience</i> , 2000, 3, 109-111.	14.8	244
18	Narp regulates homeostatic scaling of excitatory synapses on parvalbumin-expressing interneurons. <i>Nature Neuroscience</i> , 2010, 13, 1090-1097.	14.8	243

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19	Impaired Synaptic Plasticity and cAMP Response Element-Binding Protein Activation in Ca ²⁺ /Calmodulin-Dependent Protein Kinase Type IV/Gr-Deficient Mice. <i>Journal of Neuroscience</i> , 2000, 20, 6459-6472.	3.6	234
20	Phosphorylation of RIM1 \pm by PKA Triggers Presynaptic Long-Term Potentiation at Cerebellar Parallel Fiber Synapses. <i>Cell</i> , 2003, 115, 49-60.	28.9	232
21	Homeostatic Scaling Requires Group I mGluR Activation Mediated by Homer1a. <i>Neuron</i> , 2010, 68, 1128-1142.	8.1	227
22	Polarity of Long-Term Synaptic Gain Change Is Related to Postsynaptic Spike Firing at a Cerebellar Inhibitory Synapse. <i>Neuron</i> , 1998, 21, 827-835.	8.1	218
23	Long-Term Depression of the Cerebellar Climbing Fiberâ€Purkinje Neuron Synapse. <i>Neuron</i> , 2000, 26, 473-482.	8.1	213
24	SRF mediates activity-induced gene expression and synaptic plasticity but not neuronal viability. <i>Nature Neuroscience</i> , 2005, 8, 759-767.	14.8	197
25	NMDA receptor blockade prevents the increase in protein kinase C substrate (protein F1) phosphorylation produced by long-term potentiation. <i>Brain Research</i> , 1988, 453, 142-146.	2.2	185
26	The Return of the Spike. <i>Neuron</i> , 1999, 22, 661-666.	8.1	180
27	A Double-Blind, Randomized, Placebo-Controlled Trial of Oxcarbazepine in the Treatment of Bipolar Disorder in Children and Adolescents. <i>American Journal of Psychiatry</i> , 2006, 163, 1179-1186.	7.2	177
28	Ubiquitous Plasticity and Memory Storage. <i>Neuron</i> , 2007, 56, 582-592.	8.1	171
29	A Late Phase of Cerebellar Long-Term Depression Requires Activation of CaMKIV and CREB. <i>Neuron</i> , 1999, 23, 559-568.	8.1	160
30	Cellular mechanisms of long-term depression in the cerebellum. <i>Current Opinion in Neurobiology</i> , 1993, 3, 401-406.	4.2	159
31	Cannabinoid Receptor Modulation of Synapses Received by Cerebellar Purkinje Cells. <i>Journal of Neurophysiology</i> , 2000, 83, 1167-1180.	1.8	157
32	Impaired Cerebellar Long-Term Potentiation in Type I Adenylyl Cyclase Mutant Mice. <i>Neuron</i> , 1998, 20, 1199-1210.	8.1	148
33	Visualization of NMDA receptorâ€dependent AMPA receptor synaptic plasticity in vivo. <i>Nature Neuroscience</i> , 2015, 18, 402-407.	14.8	143
34	A Protein Synthesisâ€Dependent Late Phase of Cerebellar Long-Term Depression. <i>Neuron</i> , 1996, 17, 483-490.	8.1	138
35	Hedgehog Agonist Therapy Corrects Structural and Cognitive Deficits in a Down Syndrome Mouse Model. <i>Science Translational Medicine</i> , 2013, 5, 201ra120.	12.4	129
36	Long-term Depression of Glutamate Currents in Cultured Cerebellar Purkinje Neurons Does Not Require Nitric Oxide Signalling. <i>European Journal of Neuroscience</i> , 1992, 4, 10-15.	2.6	125

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37	Induction of cerebellar long-term depression in culture requires postsynaptic action of Sodium Ions. <i>Neuron</i> , 1993, 11, 1093-1100.	8.1	120
38	A Unique PDZ Ligand in PKC ζ Confers Induction of Cerebellar Long-Term Synaptic Depression. <i>Neuron</i> , 2004, 44, 585-594.	8.1	118
39	Synaptic Transmission and Hippocampal Long-Term Potentiation in Transgenic Mice Expressing FAD-Linked Presenilin 1. <i>Neurobiology of Disease</i> , 1999, 6, 56-62.	4.4	109
40	An NMDA Receptor/Nitric Oxide Cascade Is Involved in Cerebellar LTD But Is Not Localized to the Parallel Fiber Terminal. <i>Journal of Neurophysiology</i> , 2005, 94, 4281-4289.	1.8	107
41	mGluR1/5-Dependent Long-Term Depression Requires the Regulated Ectodomain Cleavage of Neuronal Pentraxin NPR by TACE. <i>Neuron</i> , 2008, 57, 858-871.	8.1	106
42	Long-Term Depression at the Mossy Fiber-Deep Cerebellar Nucleus Synapse. <i>Journal of Neuroscience</i> , 2006, 26, 6935-6944.	3.6	100
43	Cerebellar Long-Term Synaptic Depression Requires PKC-Mediated Activation of CPI-17, a Myosin/Moesin Phosphatase Inhibitor. <i>Neuron</i> , 2002, 36, 1145-1158.	8.1	95
44	Phospholipase A2 controls the induction of short-term versus long-term depression in the cerebellar Purkinje neuron in culture. <i>Neuron</i> , 1995, 15, 1393-1401.	8.1	94
45	Activation of Presynaptic cAMP-Dependent Protein Kinase Is Required for Induction of Cerebellar Long-Term Potentiation. <i>Journal of Neuroscience</i> , 1999, 19, 10221-10227.	3.6	92
46	Axonal Motility and Its Modulation by Activity Are Branch-Type Specific in the Intact Adult Cerebellum. <i>Neuron</i> , 2007, 56, 472-487.	8.1	84
47	Phorbol ester promotes growth of synaptic plasticity. <i>Brain Research</i> , 1986, 378, 374-378.	2.2	81
48	Morphological Correlates of Intrinsic Electrical Excitability in Neurons of the Deep Cerebellar Nuclei. <i>Journal of Neurophysiology</i> , 2003, 89, 1738-1747.	1.8	77
49	Regrowth of Serotonin Axons in the Adult Mouse Brain Following Injury. <i>Neuron</i> , 2016, 91, 748-762.	8.1	75
50	Long-Term Potentiation of Glial Synaptic Currents in Cerebellar Culture. <i>Neuron</i> , 1997, 18, 983-994.	8.1	74
51	A newly discovered protein kinase C activator (oleic acid) enhances long-term potentiation in the intact hippocampus. <i>Brain Research</i> , 1986, 379, 358-363.	2.2	72
52	SRF binding to SRE 6.9 in the Arc promoter is essential for LTD in cultured Purkinje cells. <i>Nature Neuroscience</i> , 2010, 13, 1082-1089.	14.8	72
53	The Glutamate Receptor-Interacting Protein Family of GluR2-Binding Proteins Is Required for Long-Term Synaptic Depression Expression in Cerebellar Purkinje Cells. <i>Journal of Neuroscience</i> , 2008, 28, 5752-5755.	3.6	68
54	PICK1 interacts with PACSIN to regulate AMPA receptor internalization and cerebellar long-term depression. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 13976-13981.	7.1	68

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55	STIM1 Regulates Somatic Ca ²⁺ Signals and Intrinsic Firing Properties of Cerebellar Purkinje Neurons. <i>Journal of Neuroscience</i> , 2017, 37, 8876-8894.	3.6	68
56	NEUROSCIENCE: From Molecules to Memory in the Cerebellum. <i>Science</i> , 2003, 301, 1682-1685.	12.6	64
57	Long-term depression of climbing fiber-evoked calcium transients in Purkinje cell dendrites. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 2878-2883.	7.1	64
58	N-ethylmaleimide-sensitive factor is required for the synaptic incorporation and removal of AMPA receptors during cerebellar long-term depression. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 18212-18216.	7.1	64
59	Double dissociation between long-term depression and dendritic spine morphology in cerebellar Purkinje cells. <i>Nature Neuroscience</i> , 2007, 10, 546-548.	14.8	64
60	A Prolyl-Isomerase Mediates Dopamine-Dependent Plasticity and Cocaine Motor Sensitization. <i>Cell</i> , 2013, 154, 637-650.	28.9	61
61	DHHC8-Dependent PICK1 Palmitoylation is Required for Induction of Cerebellar Long-Term Synaptic Depression. <i>Journal of Neuroscience</i> , 2013, 33, 15401-15407.	3.6	58
62	The expression of cerebellar LTD in culture is not associated with changes in AMPA-receptor kinetics, agonist affinity, or unitary conductance. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2001, 98, 14066-14071.	7.1	56
63	Synaptically Evoked Glutamate Transport Currents May Be Used To Detect the Expression of Long-Term Potentiation in Cerebellar Culture. <i>Journal of Neurophysiology</i> , 1998, 79, 3151-3156.	1.8	51
64	Adapter protein 14-3-3 is required for a presynaptic form of LTP in the cerebellum. <i>Nature Neuroscience</i> , 2004, 7, 1296-1298.	14.8	48
65	Synaptic Transmission and Hippocampal Long-Term Potentiation in Olfactory Cyclic Nucleotide-Gated Channel Type 1 Null Mouse. <i>Journal of Neurophysiology</i> , 1998, 79, 3295-3301.	1.8	45
66	Dopamine Signaling Is Required for Depolarization-Induced Slow Current in Cerebellar Purkinje Cells. <i>Journal of Neuroscience</i> , 2009, 29, 8530-8538.	3.6	45
67	Persistent changes in the intrinsic excitability of rat deep cerebellar nuclear neurones induced by EPSP or IPSP bursts. <i>Journal of Physiology</i> , 2004, 561, 703-719.	2.9	44
68	Cerebral vascular structure in the motor cortex of adult mice is stable and is not altered by voluntary exercise. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2017, 37, 3725-3743.	4.3	44
69	Defining a Minimal Computational Unit for Cerebellar Long-Term Depression. <i>Neuron</i> , 1996, 17, 333-341.	8.1	41
70	Cerebellar long-term depression as investigated in a cell culture preparation. <i>Behavioral and Brain Sciences</i> , 1996, 19, 339-346.	0.7	41
71	Differential Maturation of Climbing Fiber Innervation in Cerebellar Vermis. <i>Journal of Neuroscience</i> , 2004, 24, 3926-3932.	3.6	37
72	Long-Term Depression of mGluR1 Signaling. <i>Neuron</i> , 2007, 55, 277-287.	8.1	37

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73	Neuromodulation at Single Presynaptic Boutons of Cerebellar Parallel Fibers Is Determined by Bouton Size and Basal Action Potential-Evoked Ca Transient Amplitude. <i>Journal of Neuroscience</i> , 2009, 29, 15586-15594.	3.6	36
74	Characterizing the conductance underlying depolarization-induced slow current in cerebellar Purkinje cells. <i>Journal of Neurophysiology</i> , 2013, 109, 1174-1181.	1.8	36
75	Phosphoproteins localized to presynaptic terminal linked to persistence of long-term potentiation (LTP): quantitative analysis of two-dimensional gels. <i>Brain Research</i> , 1989, 497, 30-42.	2.2	34
76	Glutamate release during LTD at cerebellar climbing fiber-Purkinje cell synapses. <i>Nature Neuroscience</i> , 2002, 5, 725-726.	14.8	34
77	Inositol-1,4,5-Trisphosphate Receptor-Mediated Ca Mobilization Is Not Required for Cerebellar Long-Term Depression in Reduced Preparations. <i>Journal of Neurophysiology</i> , 1998, 80, 2963-2974.	1.8	33
78	Long-Term Potentiation of Neuronal Glutamate Transporters. <i>Neuron</i> , 2005, 46, 715-722.	8.1	31
79	Arc Oligomerization Is Regulated by CaMKII Phosphorylation of the GAG Domain: An Essential Mechanism for Plasticity and Memory Formation. <i>Molecular Cell</i> , 2019, 75, 13-25.e5.	9.7	31
80	Cytosolic phospholipase A2 alpha mediates electrophysiologic responses of hippocampal pyramidal neurons to neurotoxic NMDA treatment. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 6078-6083.	7.1	30
81	Serotonin axons in the neocortex of the adult female mouse regrow after traumatic brain injury. <i>Journal of Neuroscience Research</i> , 2018, 96, 512-526.	2.9	28
82	Fast serotonin voltammetry as a versatile tool for mapping dynamic tissue architecture: I. Responses at carbon fibers describe local tissue physiology. <i>Journal of Neurochemistry</i> , 2020, 153, 33-50.	3.9	28
83	<i>In Vivo</i> Imaging of CNS Injury and Disease. <i>Journal of Neuroscience</i> , 2017, 37, 10808-10816.	3.6	24
84	Dendritic glutamate release produces autocrine activation of mGluR1 in cerebellar Purkinje cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 746-750.	7.1	23
85	Calcium Influx Measured at Single Presynaptic Boutons of Cerebellar Granule Cell Ascending Axons and Parallel Fibers. <i>Cerebellum</i> , 2012, 11, 121-131.	2.5	20
86	Use-dependent changes in synaptic strength at the Purkinje cell to deep nuclear synapse. <i>Progress in Brain Research</i> , 2000, 124, 257-273.	1.4	19
87	A late phase of LTD in cultured cerebellar Purkinje cells requires persistent dynamin-mediated endocytosis. <i>Journal of Neurophysiology</i> , 2012, 107, 448-454.	1.8	19
88	Transient Upregulation of Postsynaptic IP ₃ -Gated Ca Release Underlies Short-Term Potentiation of Metabotropic Glutamate Receptor 1 Signaling in Cerebellar Purkinje Cells. <i>Journal of Neuroscience</i> , 2008, 28, 4350-4355.	3.6	17
89	Expression of mutant DISC1 in Purkinje cells increases their spontaneous activity and impairs cognitive and social behaviors in mice. <i>Neurobiology of Disease</i> , 2017, 103, 144-153.	4.4	17
90	Estrogen-Dependent Functional Spine Dynamics in Neocortical Pyramidal Neurons of the Mouse. <i>Journal of Neuroscience</i> , 2019, 39, 4874-4888.	3.6	17

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91	Dynamic imaging of cerebellar Purkinje cells reveals a population of filopodia which cross-link dendrites during early postnatal development. <i>Cerebellum</i> , 2006, 5, 105-115.	2.5	15
92	Is There Gender Bias in the Peer Review Process at <i>Journal of Neurophysiology</i> ? <i>Journal of Neurophysiology</i> , 2009, 101, 2195-2196.	1.8	15
93	Pure spillover transmission between neurons. <i>Nature Neuroscience</i> , 2007, 10, 675-677.	14.8	14
94	Catecholaminergic axons in the neocortex of adult mice regrow following brain injury. <i>Experimental Neurology</i> , 2020, 323, 113089.	4.1	13
95	A Late Phase of Long-Term Synaptic Depression in Cerebellar Purkinje Cells Requires Activation of MEF2. <i>Cell Reports</i> , 2019, 26, 1089-1097.e3.	6.4	12
96	Depolarization-induced slow current in cerebellar Purkinje cells does not require metabotropic glutamate receptor 1. <i>Neuroscience</i> , 2009, 162, 688-693.	2.3	10
97	Persistently Elevated mTOR Complex 1-S6 Kinase 1 Disrupts DARPP-32-Dependent D1 Dopamine Receptor Signaling and Behaviors. <i>Biological Psychiatry</i> , 2021, 89, 1058-1072.	1.3	8
98	Chronic In Vivo Imaging of Ponto-Cerebellar Mossy Fibers Reveals Morphological Stability during Whisker Sensory Manipulation in the Adult Rat. <i>ENeuro</i> , 2015, 2, ENEURO.0075-15.2015.	1.9	6
99	A cerebellar long-term depression update. <i>Behavioral and Brain Sciences</i> , 1996, 19, 482-487.	0.7	2
100	Introducing Neuro Forum, a Section for Young Neurophysiologists. <i>Journal of Neurophysiology</i> , 2008, 100, 1159-1159.	1.8	2
101	Warm, Fuzzy Feeling. <i>Journal of Neurophysiology</i> , 2008, 100, 1-1.	1.8	0
102	494. Selective Expression of Mutant DISC1 in Purkinje Cells Increased Their Spontaneous Activity and Produced Cognitive Abnormalities Relevant to Autism Spectrum Disorders. <i>Biological Psychiatry</i> , 2017, 81, S201.	1.3	0
103	Preprint Servers and the Journal of Neurophysiology. <i>Journal of Neurophysiology</i> , 2009, 102, 2577-2577.	1.8	0
104	Journal of Neurophysiology and the Neuroscience Peer Review Consortium (NPRC). <i>Journal of Neurophysiology</i> , 2010, 103, 1707-1707.	1.8	0
105	Cerebellar long-term depression as investigated in a cell culture preparation. , 1997, , 1-8.		0