Timothy J Ebner

List of Publications by Year
in descending order

74 papers	4,002 citations	109321 35 h-index	128289 60 g-index
79 all docs	79 docs citations	79 times ranked	3725 citing authors

#	Article	IF	Citations
1	Wide-Field Calcium Imaging of Dynamic Cortical Networks during Locomotion. Cerebral Cortex, 2022, 32, 2668-2687.	2.9	34
2	Disparate insults relevant to schizophrenia converge on impaired spike synchrony and weaker synaptic interactions in prefrontal local circuits. Current Biology, 2022, 32, 14-25.e4.	3.9	7
3	Tottering Mouse. , 2022, , 1709-1732.		0
4	Cerebellum and Internal Models. , 2022, , 1461-1486.		0
5	Cerebellar Representations of Errors and Internal Models. Cerebellum, 2022, 21, 814-820.	2.5	3
6	Through the looking glass: A review of cranial window technology for optical access to the brain. Journal of Neuroscience Methods, 2021, 354, 109100.	2.5	46
7	States Are A-Changing, Complex Spikes Proclaim. Contemporary Clinical Neuroscience, 2021, , 259-275.	0.3	1
8	Tottering Mouse. , 2020, , 1-24.		0
9	Purkinje Cell Representations of Behavior: Diary of a Busy Neuron. Neuroscientist, 2019, 25, 241-257.	3.5	21
10	Cortex-wide neural interfacing via transparent polymer skulls. Nature Communications, 2019, 10, 1500.	12.8	71
11	Cerebellum and Internal Models. , 2019, , 1-25.		4
12	Local Estrogen Synthesis Regulates Parallel Fiberâ€"Purkinje Cell Neurotransmission Within the Cerebellar Cortex. Endocrinology, 2018, 159, 1328-1338.	2.8	21
13	Altered levels of the splicing factor muscleblind modifies cerebral cortical function in mouse models of myotonic dystrophy. Neurobiology of Disease, 2018, 112, 35-48.	4.4	9
14	Modulation of sensory prediction error in Purkinje cells during visual feedback manipulations. Nature Communications, 2018, 9, 1099.	12.8	48
15	Complex Spike Wars: a New Hope. Cerebellum, 2018, 17, 735-746.	2.5	48
16	Cerebellar Modules and Their Role as Operational Cerebellar Processing Units. Cerebellum, 2018, 17, 654-682.	2.5	151
17	Cerebellum, Predictions and Errors. Frontiers in Cellular Neuroscience, 2018, 12, 524.	3.7	105
18	The Roles of the Olivocerebellar Pathway in Motor Learning and Motor Control. A Consensus Paper. Cerebellum, 2017, 16, 230-252.	2.5	89

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19	Climbing Fibers Control Purkinje Cell Representations of Behavior. Journal of Neuroscience, 2017, 37, 1997-2009.	3.6	40
20	Climbing fibers predict movement kinematics and performance errors. Journal of Neurophysiology, 2017, 118, 1888-1902.	1.8	17
21	Long-Term Predictive and Feedback Encoding of Motor Signals in the Simple Spike Discharge of Purkinje Cells. ENeuro, 2017, 4, ENEURO.0036-17.2017.	1.9	34
22	The Errors of Our Ways: Understanding Error Representations in Cerebellar-Dependent Motor Learning. Cerebellum, 2016, 15, 93-103.	2.5	80
23	Signaling of Predictive and Feedback Information in Purkinje Cell Simple Spike Activity. , 2016, , 1-25.		1
24	The Tottering Mouse. , 2016, , 437-442.		1
25	Changes in Purkinje Cell Simple Spike Encoding of Reach Kinematics during Adaption to a Mechanical Perturbation. Journal of Neuroscience, 2015, 35, 1106-1124.	3.6	38
26	Joint angles and angular velocities and relevance of eigenvectors during prehension in the monkey. Experimental Brain Research, 2015, 233, 339-350.	1.5	1
27	Abnormal Excitability and Episodic Low-Frequency Oscillations in the Cerebral Cortex of the tottering Mouse. Journal of Neuroscience, 2015, 35, 5664-5679.	3.6	9
28	The cerebellum for jocks and nerds alike. Frontiers in Systems Neuroscience, 2014, 8, 113.	2.5	49
29	Mutant Â-III Spectrin Causes mGluR1Â Mislocalization and Functional Deficits in a Mouse Model of Spinocerebellar Ataxia Type 5. Journal of Neuroscience, 2014, 34, 9891-9904.	3.6	65
30	Reevaluation of the Beam and Radial Hypotheses of Parallel Fiber Action in the Cerebellar Cortex. Journal of Neuroscience, 2013, 33, 11412-11424.	3.6	18
31	Purkinje Cell Ataxin-1 Modulates Climbing Fiber Synaptic Input in Developing and Adult Mouse Cerebellum. Journal of Neuroscience, 2013, 33, 5806-5820.	3.6	50
32	Cerebellum and Internal Models. , 2013, , 1279-1295.		15
33	Purkinje Cell Simple Spike Discharge Encodes Error Signals Consistent with a Forward Internal Model. Cerebellum, 2013, 12, 331-333.	2.5	39
34	Parkinsonism State Uncouples Correlation Between Subthalamic Nucleus ÃŸ-Band Activity and Motor Performance. Journal of Medical Devices, Transactions of the ASME, 2013, 7, .	0.7	0
35	Tottering Mouse. , 2013, , 1521-1540.		3
36	Predictive and Feedback Performance Errors Are Signaled in the Simple Spike Discharge of Individual Purkinje Cells. Journal of Neuroscience, 2012, 32, 15345-15358.	3.6	82

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37	The cerebellum as a target for estrogen action. Frontiers in Neuroendocrinology, 2012, 33, 403-411.	5.2	84
38	Parasagittal Zones in the Cerebellar Cortex Differ in Excitability, Information Processing, and Synaptic Plasticity. Cerebellum, 2012, 11, 418-419.	2.5	35
39	Parasagittally aligned, mGluR1-dependent patches are evoked at long latencies by parallel fiber stimulation in the mouse cerebellar cortex in vivo. Journal of Neurophysiology, 2011, 105, 1732-1746.	1.8	42
40	What Features of Limb Movements are Encoded in the Discharge of Cerebellar Neurons?. Cerebellum, 2011, 10, 683-693.	2.5	76
41	Cellular and Metabolic Origins of Flavoprotein Autofluorescence in the Cerebellar Cortex in vivo. Cerebellum, 2011, 10, 585-599.	2.5	38
42	Abnormalities in the Climbing Fiber-Purkinje Cell Circuitry Contribute to Neuronal Dysfunction in<i>ATXN1</i>[<i>82Q</i>] Mice. Journal of Neuroscience, 2011, 31, 12778-12789.	3.6	75
43	Representation of limb kinematics in Purkinje cell simple spike discharge is conserved across multiple tasks. Journal of Neurophysiology, 2011, 106, 2232-2247.	1.8	67
44	Past, Present, and Emerging Principles in the Neural Encoding of Movement. Advances in Experimental Medicine and Biology, 2009, 629, 127-137.	1.6	15
45	Low-Frequency Oscillations in the Cerebellar Cortex of the Tottering Mouse. Journal of Neurophysiology, 2009, 101, 234-245.	1.8	60
46	Signaling of Grasp Dimension and Grasp Force in Dorsal Premotor Cortex and Primary Motor Cortex Neurons During Reach to Grasp in the Monkey. Journal of Neurophysiology, 2009, 102, 132-145.	1.8	55
47	Flavoprotein imaging in the cerebellar cortex in vivo: cellular and metabolic basis and insights into cerebellar function. Proceedings of SPIE, 2009, , .	0.8	0
48	Motor dysfunction in the tottering mouse is linked to cerebellar spontaneous low frequency oscillations revealed by flavoprotein autofluorescence optical imaging. Proceedings of SPIE, 2009, , .	0.8	0
49	Cerebellum Predicts the Future Motor State. Cerebellum, 2008, 7, 583-588.	2.5	149
50	Flavoprotein autofluorescence imaging in the cerebellar cortex in vivo. Journal of Neuroscience Research, 2007, 85, 3221-3232.	2.9	67
51	Bidirectional expression of CUG and CAG expansion transcripts and intranuclear polyglutamine inclusions in spinocerebellar ataxia type 8. Nature Genetics, 2006, 38, 758-769.	21.4	408
52	Finger movements during reach-to-grasp in the monkey: amplitude scaling of a temporal synergy. Experimental Brain Research, 2006, 169, 433-448.	1.5	25
53	Purkinje Cells Signal Hand Shape and Grasp Force During Reach-to-Grasp in the Monkey. Journal of Neurophysiology, 2006, 95, 144-158.	1.8	31
54	Cerebellar Cortical Molecular Layer Inhibition Is Organized in Parasagittal Zones. Journal of Neuroscience, 2006, 26, 8377-8387.	3.6	115

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55	Involvement of Kv1 Potassium Channels in Spreading Acidification and Depression in the Cerebellar Cortex. Journal of Neurophysiology, 2005, 94, 1287-1298.	1.8	37
56	Position, Direction of Movement, and Speed Tuning of Cerebellar Purkinje Cells during Circular Manual Tracking in Monkey. Journal of Neuroscience, 2005, 25, 9244-9257.	3.6	93
57	Optical imaging of cerebellar functional architectures: parallel fiber beams, parasagittal bands and spreading acidification. Progress in Brain Research, 2005, 148, 125-138.	1.4	15
58	Hereditary Cerebellar Ataxia Progressively Impairs Force Adaptation During Goal-Directed Arm Movements. Journal of Neurophysiology, 2004, 91, 230-238.	1.8	246
59	Monkey Hand Postural Synergies During Reach-to-Grasp in the Absence of Vision of the Hand and Object. Journal of Neurophysiology, 2004, 91, 2826-2837.	1.8	74
60	Flavoprotein Autofluorescence Imaging of Neuronal Activation in the Cerebellar Cortex In Vivo. Journal of Neurophysiology, 2004, 92, 199-211.	1.8	162
61	Spreading Acidification and Depression in the Cerebellar Cortex. Neuroscientist, 2003, 9, 37-45.	3.5	21
62	Optical Imaging of Long-Term Depression in the Mouse Cerebellar Cortex<i>In Vivo</i>. Journal of Neuroscience, 2003, 23, 1859-1866.	3.6	50
63	What Do Complex Spikes Signal about Limb Movements?. Annals of the New York Academy of Sciences, 2002, 978, 205-218.	3.8	40
64	Role of Calcium, Glutamate Neurotransmission, and Nitric Oxide in Spreading Acidification and Depression in the Cerebellar Cortex. Journal of Neuroscience, 2001, 21, 9877-9887.	3.6	22
65	Central processes for the multiparametric control of arm movements in primates. Current Opinion in Neurobiology, 2001, 11, 684-688.	4.2	39
66	Representation of accuracy in the dorsal premotor cortex. European Journal of Neuroscience, 2000, 12, 3748-3760.	2.6	23
67	Population code for tracking velocity based on cerebellar Purkinje cell simple spike firing in monkeys. Neuroscience Letters, 2000, 296, 1-4.	2.1	13
68	A role for the cerebellum in the control of limb movement velocity. Current Opinion in Neurobiology, 1998, 8, 762-769.	4.2	72
69	Temporal profile of the directional tuning of the discharge of dorsal premotor cortical cells. NeuroReport, 1998, 9, 989-995.	1.2	13
70	Chapter 25 What features of visually guided arm movements are encoded in the simple spike discharge of cerebellar Purkinje cells?. Progress in Brain Research, 1997, 114, 431-447.	1.4	32
71	Movement kinematics encoded in complex spike discharge of primate cerebellar Purkinje cells. NeuroReport, 1997, 8, 523-529.	1.2	60
72	Use of voltage-sensitive dyes and optical recordings in the central nervous system. Progress in Neurobiology, 1995, 46, 463-506.	5.7	193

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73	Climbing fiber afferent modulation during a visually guided, multi-joint arm movement in the monkey. Brain Research, 1987, 410, 323-329.	2.2	133
74	The changes in Purkinje cell simple spike activity following spontaneous climbing fiber inputs. Brain Research, 1982, 237, 484-491.	2.2	101