Jonathan R Wolpaw

List of Publications by Year
in descending order

249 papers	40,482 citations	6254 80 h-index	2684 193 g-index
257 all docs	257 docs citations	257 times ranked	14359 citing authors

#	Article	IF	Citations
1	Brainâ€"computer interfaces for communication and control. Clinical Neurophysiology, 2002, 113, 767-791.	1.5	6,747
2	BCI2000: A General-Purpose Brain-Computer Interface (BCI) System. IEEE Transactions on Biomedical Engineering, 2004, 51, 1034-1043.	4.2	2,248
3	Brain-computer interface technology: a review of the first international meeting. IEEE Transactions on Rehabilitation Engineering: A Publication of the IEEE Engineering in Medicine and Biology Society, 2000, 8, 164-173.	1.4	1,703
4	Control of a two-dimensional movement signal by a noninvasive brain-computer interface in humans. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 17849-17854.	7.1	1,262
5	A brainâ€"computer interface using electrocorticographic signals in humans. Journal of Neural Engineering, 2004, 1, 63-71.	3.5	1,066
6	An EEG-based brain-computer interface for cursor control. Electroencephalography and Clinical Neurophysiology, 1991, 78, 252-259.	0.3	961
7	Brainâ€"computer interfaces in neurological rehabilitation. Lancet Neurology, The, 2008, 7, 1032-1043.	10.2	954
8	The BCI competition III: validating alternative approaches to actual BCI problems. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2006, 14, 153-159.	4.9	832
9	Spatial filter selection for EEG-based communication. Electroencephalography and Clinical Neurophysiology, 1997, 103, 386-394.	0.3	788
10	Mu and beta rhythm topographies during motor imagery and actual movements. Brain Topography, 2000, 12, 177-186.	1.8	686
11	Toward enhanced P300 speller performance. Journal of Neuroscience Methods, 2008, 167, 15-21.	2.5	683
12	A comparison of classification techniques for the P300 Speller. Journal of Neural Engineering, 2006, 3, 299-305.	3.5	674
13	EMG contamination of EEG: spectral and topographical characteristics. Clinical Neurophysiology, 2003, 114, 1580-1593.	1.5	606
14	A P300-based brainâ€"computer interface for people with amyotrophic lateral sclerosis. Clinical Neurophysiology, 2008, 119, 1909-1916.	1.5	559
15	The BCI Competition 2003: Progress and Perspectives in Detection and Discrimination of EEG Single Trials. IEEE Transactions on Biomedical Engineering, 2004, 51, 1044-1051.	4.2	535
16	Brainâ€"computer communication: Unlocking the locked in.. Psychological Bulletin, 2001, 127, 358-375.	6.1	531
17	Patients with ALS can use sensorimotor rhythms to operate a brain-computer interface. Neurology, 2005, 64, 1775-1777.	1.1	530
18	A novel P300-based brainâ€"computer interface stimulus presentation paradigm: Moving beyond rows and columns. Clinical Neurophysiology, 2010, 121, 1109-1120.	1.5	515

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19	Brain-Computer Interfaces in Medicine. Mayo Clinic Proceedings, 2012, 87, 268-279.	3.0	515
20	A P300 event-related potential brainâ€"computer interface (BCI): The effects of matrix size and inter stimulus interval on performance. Biological Psychology, 2006, 73, 242-252.	2.2	510
21	Decoding two-dimensional movement trajectories using electrocorticographic signals in humans. Journal of Neural Engineering, 2007, 4, 264-275.	3.5	456
22	A brain-computer interface for long-term independent home use. Amyotrophic Lateral Sclerosis and Other Motor Neuron Disorders, 2010, 11, 449-455.	2.1	443
23	Two-dimensional movement control using electrocorticographic signals in humans. Journal of Neural Engineering, 2008, 5, 75-84.	3.5	442
24	Activity-Dependent Spinal Cord Plasticity in Health and Disease. Annual Review of Neuroscience, 2001, 24, 807-843.	10.7	391
25	Clinical Applications of Brain-Computer Interfaces: Current State and Future Prospects. IEEE Reviews in Biomedical Engineering, 2009, 2, 187-199.	18.0	386
26	Multichannel EEG-based brain-computer communication. Electroencephalography and Clinical Neurophysiology, 1994, 90, 444-449.	0.3	382
27	Electroencephalographic (EEG) control of three-dimensional movement. Journal of Neural Engineering, 2010, 7, 036007.	3.5	351
28	Conversion of EEG activity into cursor movement by a brain-computer interface (BCI). IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2004, 12, 331-338.	4.9	336
29	Brain-computer interface research at the Wadsworth Center. IEEE Transactions on Rehabilitation Engineering: A Publication of the IEEE Engineering in Medicine and Biology Society, 2000, 8, 222-226.	1.4	334
30	Brainâ€"computer interface systems: progress and prospects. Expert Review of Medical Devices, 2007, 4, 463-474.	2.8	328
31	EEG-based communication: improved accuracy by response verification. IEEE Transactions on Rehabilitation Engineering: A Publication of the IEEE Engineering in Medicine and Biology Society, 1998, 6, 326-333.	1.4	327
32	Brain-computer interfaces for communication and control. Communications of the ACM, 2011, 54, 60-66.	4.5	323
33	The wadsworth BCI research and development program: at home with BCI. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2006, 14, 229-233.	4.9	294
34	Towards an independent brainâ€"computer interface using steady state visual evoked potentials. Clinical Neurophysiology, 2008, 119, 399-408.	1.5	294
35	A temporal component of the auditory evoked response. Electroencephalography and Clinical Neurophysiology, 1975, 39, 609-620.	0.3	276
36	Brain-computer interfaces as new brain output pathways. Journal of Physiology, 2007, 579, 613-619.	2.9	271

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37	Four ethical priorities for neurotechnologies and AI. Nature, 2017, 551, 159-163.	27.8	267
38	Does the â€˜P300â€™ speller depend on eye gaze?. Journal of Neural Engineering, 2010, 7, 056013.	3.5	255
39	Decoding flexion of individual fingers using electrocorticographic signals in humans. Journal of Neural Engineering, 2009, 6, 066001.	3.5	247
40	Scalp distribution of human auditory evoked potentials. II. Evidence for overlapping sources and involvement of auditory cortex. Electroencephalography and Clinical Neurophysiology, 1982, 54, 25-38.	0.3	225
41	EEG-based communication: presence of an error potential. Clinical Neurophysiology, 2000, 111, 2138-2144.	1.5	219
42	Brainâ€"computer interface (BCI) operation: optimizing information transfer rates. Biological Psychology, 2003, 63, 237-251.	2.2	196
43	The Wadsworth Center brain-computer interface (BCI) research and development program. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2003, 11, 1-4.	4.9	182
44	Emulation of computer mouse control with a noninvasive brainâ€"computer interface. Journal of Neural Engineering, 2008, 5, 101-110.	3.5	181
45	EEG-based brainâ€"computer interfaces. Current Opinion in Biomedical Engineering, 2017, 4, 194-200.	3.4	175
46	The complex structure of a simple memory. Trends in Neurosciences, 1997, 20, 588-594.	8.6	170
47	Spatiotemporal dynamics of electrocorticographic high gamma activity during overt and covert word repetition. NeuroImage, 2011, 54, 2960-2972.	4.2	170
48	Sensorimotor rhythm-based brainâ€"computer interface (BCI): model order selection for autoregressive spectral analysis. Journal of Neural Engineering, 2008, 5, 155-162.	3.5	164
49	Brain-Computer Interface Operation of Robotic and Prosthetic Devices. Computer, 2008, 41, 52-56.	1.1	155
50	What do reflex and voluntary mean? Modern views on an ancient debate. Experimental Brain Research, 2000, 130, 417-432.	1.5	151
51	Operant conditioning of primate spinal reflexes: the H-reflex. Journal of Neurophysiology, 1987, 57, 443-459.	1.8	149
52	Adaptive plasticity in primate spinal stretch reflex: initial development. Journal of Neurophysiology, 1983, 50, 1296-1311.	1.8	147
53	Design and operation of an EEG-based brain-computer interface with digital signal processing technology. Behavior Research Methods, 1997, 29, 337-345.	1.3	147
54	Toward a high-throughput auditory P300-based brainâ€"computer interface. Clinical Neurophysiology, 2009, 120, 1252-1261.	1.5	147

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55	Memory traces in primate spinal cord produced by operant conditioning of H-reflex. Journal of Neurophysiology, 1989, 61, 563-572.	1.8	145
56	Spinal cord plasticity in acquisition and maintenance of motor skills. Acta Physiologica, 2007, 189, 155-169.	3.8	139
57	Brain-computer interface (BCI) operation: signal and noise during early training sessions. Clinical Neurophysiology, 2005, 116, 56-62.	1.5	128
58	Motoneuron plasticity underlying operantly conditioned decrease in primate H-reflex. Journal of Neurophysiology, 1994, 72, 431-442.	1.8	127
59	Operant Conditioning of a Spinal Reflex Can Improve Locomotion after Spinal Cord Injury in Humans. Journal of Neuroscience, 2013, 33, 2365-2375.	3.6	125
60	EEG-based communication: prospects and problems. IEEE Transactions on Rehabilitation Engineering: A Publication of the IEEE Engineering in Medicine and Biology Society, 1996, 4, 425-430.	1.4	124
61	P300-based brain-computer interface (BCI) event-related potentials (ERPs): People with amyotrophic lateral sclerosis (ALS) vs. age-matched controls. Clinical Neurophysiology, 2015, 126, 2124-2131.	1.5	124
62	Sensorimotor rhythm-based brain-computer interface (BCI): feature selection by regression improves performance. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2005, 13, 372-379.	4.9	120
63	Operant conditioning of H-reflex in freely moving rats. Journal of Neurophysiology, 1995, 73, 411-415.	1.8	118
64	Acquisition of a Simple Motor Skill: Task-Dependent Adaptation Plus Long-Term Change in the Human Soleus H-Reflex. Journal of Neuroscience, 2009, 29, 5784-5792.	3.6	113
65	What Can the Spinal Cord Teach Us about Learning and Memory?. Neuroscientist, 2010, 16, 532-549.	3.5	110
66	Memory traces in spinal cord. Trends in Neurosciences, 1990, 13, 137-142.	8.6	107
67	Independent home use of a brain-computer interface by people with amyotrophic lateral sclerosis. Neurology, 2018, 91, e258-e267.	1.1	105
68	Operant Conditioning of H-Reflex Can Correct a Locomotor Abnormality after Spinal Cord Injury in Rats. Journal of Neuroscience, 2006, 26, 12537-12543.	3.6	103
69	Brain-computer interface (BCI) evaluation in people with amyotrophic lateral sclerosis. Amyotrophic Lateral Sclerosis and Frontotemporal Degeneration, 2014, 15, 207-215.	1.7	100
70	Brainâ€"Computer Interfaces: Something New under the Sun. , 2012, , 3-12.		99
71	EEG-based communication and control: short-term role of feedback. IEEE Transactions on Rehabilitation Engineering: A Publication of the IEEE Engineering in Medicine and Biology Society, 1998, 6, 7-11.	1.4	98
72	The P300-based brainâ€"computer interface (BCI): Effects of stimulus rate. Clinical Neurophysiology, 2011, 122, 731-737.	1.5	98

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73	BCI meeting 2005-workshop on signals and recording methods. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2006, 14, 138-141.	4.9	97
74	Operant conditioning of spinal reflexes: from basic science to clinical therapy. Frontiers in Integrative Neuroscience, 2014, 8, 25.	2.1	95
75	Brainâ€“computer interfaces (BCIs): Detection instead of classification. Journal of Neuroscience Methods, 2008, 167, 51-62.	2.5	94
76	Human middle-latency auditory evoked potentials: vertex and temporal components. Electroencephalography and Clinical Neurophysiology - Evoked Potentials, 1990, 77, 6-18.	2.0	87
77	Probable Corticospinal Tract Control of Spinal Cord Plasticity in the Rat. Journal of Neurophysiology, 2002, 87, 645-652.	1.8	87
78	Operantly conditioned motoneuron plasticity: possible role of sodium channels. Journal of Neurophysiology, 1995, 73, 867-871.	1.8	85
79	Real-time detection of event-related brain activity. NeuroImage, 2008, 43, 245-249.	4.2	85
80	Operant Conditioning of H-Reflex in Spinal Cord-Injured Rats. Journal of Neurotrauma, 1996, 13, 755-766.	3.4	84
81	EEG correlates of P300-based brainâ€“computer interface (BCI) performance in people with amyotrophic lateral sclerosis. Journal of Neural Engineering, 2012, 9, 026014.	3.5	82
82	Brainâ€“Computer Interfaces. , 2013, , 87-151.		78
83	Scalp distribution of human auditory evoked potentials. I. Evaluation of reference electrode sites. Electroencephalography and Clinical Neurophysiology, 1982, 54, 15-24.	0.3	77
84	Answering questions with an electroencephalogram-based brain-computer interface. Archives of Physical Medicine and Rehabilitation, 1998, 79, 1029-1033.	0.9	77
85	Hemispheric differences in the auditory evoked response. Electroencephalography and Clinical Neurophysiology, 1977, 43, 99-102.	0.3	72
86	Corticospinal tract transection prevents operantly conditioned H-reflex increase in rats. Experimental Brain Research, 2002, 144, 88-94.	1.5	72
87	Operant conditioning of H-reflex changes synaptic terminals on primate motoneurons.. Proceedings of the National Academy of Sciences of the United States of America, 1996, 93, 9206-9211.	7.1	71
88	An EEG-based method for graded cursor control. Cognitive, Affective and Behavioral Neuroscience, 1993, 21, 77-81.	1.3	71
89	Adaptive plasticity in the primate spinal stretch reflex: evidence for a two-phase process. Journal of Neuroscience, 1984, 4, 2718-2724.	3.6	69
90	Brainâ€“computer interface signal processing at the Wadsworth Center: mu and sensorimotor beta rhythms. Progress in Brain Research, 2006, 159, 411-419.	1.4	69

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91	Electroencephalographic(EEG)-based communication: EEG control versus system performance in humans. Neuroscience Letters, 2003, 345, 89-92.	2.1	68
92	Recommendations for Responsible Development and Application of Neurotechnologies. Neuroethics, 2021, 14, 365-386.	2.8	67
93	Adaptive plasticity in the primate spinal stretch reflex: reversal and re-development. Brain Research, 1983, 278, 299-304.	2.2	66
94	Motoneuron properties after operantly conditioned increase in primate H-reflex. Journal of Neurophysiology, 1995, 73, 1365-1373.	1.8	65
95	Motor learning changes GABAergic terminals on spinal motoneurons in normal rats. European Journal of Neuroscience, 2006, 23, 141-150.	2.6	64
96	Value of amplitude, phase, and coherence features for a sensorimotor rhythm-based brainâ€"computer interface. Brain Research Bulletin, 2012, 87, 130-134.	3.0	63
97	Therapeutic neural effects of electrical stimulation. IEEE Transactions on Rehabilitation Engineering: A Publication of the IEEE Engineering in Medicine and Biology Society, 1996, 4, 218-230.	1.4	61
98	Operant conditioning of rat H-reflex affects motoneuron axonal conduction velocity. Experimental Brain Research, 2001, 136, 269-273.	1.5	61
99	A $mu $-Rhythm Matched Filter for Continuous Control of a Brain-Computer Interface. IEEE Transactions on Biomedical Engineering, 2007, 54, 273-280.	4.2	61
100	Brainâ€"computer interfaces. Handbook of Clinical Neurology / Edited By P J Vinken and G W Bruyn, 2013, 110, 67-74.	1.8	60
101	Emerging concepts in the pathophysiology of recovery from neonatal brachial plexus injury. Neurology, 2000, 55, 5-6.	1.1	59
102	The Interaction of a New Motor Skill and an Old One: H-Reflex Conditioning and Locomotion in Rats. Journal of Neuroscience, 2005, 25, 6898-6906.	3.6	59
103	An Evaluation of Autoregressive Spectral Estimation Model Order for Brain-Computer Interface Applications. , 2006, 2006, 1323-6.		59
104	Plasticity from muscle to brain. Progress in Neurobiology, 2006, 78, 233-263.	5.7	59
105	Dorsal Column But Not Lateral Column Transection Prevents Down-Conditioning of H Reflex in Rats. Journal of Neurophysiology, 1997, 78, 1730-1734.	1.8	58
106	EEG-based communication and control: speed-accuracy relationships. Applied Psychophysiology Biofeedback, 2003, 28, 217-231.	1.7	58
107	A practical, intuitive brainâ€"computer interface for communicating â€˜yesâ€™ or â€˜noâ€™ by listening. Journal of Neural Engineering, 2014, 11, 035003.	3.5	56
108	The cerebellum in maintenance of a motor skill: A hierarchy of brain and spinal cord plasticity underlies H-reflex conditioning. Learning and Memory, 2006, 13, 208-215.	1.3	55

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109	Operant conditioning of the primate H-reflex: factors affecting the magnitude of change. Experimental Brain Research, 1993, 97, 31-9.	1.5	54
110	Jendrassik maneuver facilitates soleus H-reflex without change in average soleus motoneuron pool membrane potential. Experimental Neurology, 1988, 101, 288-302.	4.1	53
111	Should the parameters of a BCI translation algorithm be continually adapted?. Journal of Neuroscience Methods, 2011, 199, 103-107.	2.5	53
112	Timing of EEG-Based Cursor Control. Journal of Clinical Neurophysiology, 1997, 14, 529-538.	1.7	51
113	Short-Term and Medium-Term Effects of Spinal Cord Tract Transections on Soleus H-Reflex in Freely Moving Rats. Journal of Neurotrauma, 2001, 18, 313-327.	3.4	50
114	Correlations between task-related activity and responses to perturbation in primate sensorimotor cortex. Journal of Neurophysiology, 1980, 44, 1122-1138.	1.8	49
115	Chapter 64 Brain-computer interfaces (BCIs) for communication and control: a mini-review. Supplements To Clinical Neurophysiology, 2004, 57, 607-613.	2.1	49
116	H-Reflex Operant Conditioning in Mice. Journal of Neurophysiology, 2006, 96, 1718-1727.	1.8	48
117	Brain-computer interfaces: Definitions and principles. Handbook of Clinical Neurology / Edited By P J Vinken and G W Bruyn, 2020, 168, 15-23.	1.8	48
118	Plastic changes in the human H-reflex pathway at rest following skillful cycling training. Clinical Neurophysiology, 2006, 117, 1682-1691.	1.5	46
119	A scanning protocol for a sensorimotor rhythm-based brainâ€“computer interface. Biological Psychology, 2009, 80, 169-175.	2.2	46
120	Restoring Walking after Spinal Cord Injury. Neuroscientist, 2015, 21, 203-215.	3.5	46
121	Ablation of cerebellar nuclei prevents H-reflex down-conditioning in rats. Learning and Memory, 2005, 12, 248-254.	1.3	45
122	Trained modulation of sensorimotor rhythms can affect reaction time. Clinical Neurophysiology, 2011, 122, 1820-1826.	1.5	44
123	The negotiated equilibrium model of spinal cord function. Journal of Physiology, 2018, 596, 3469-3491.	2.9	43
124	Triceps surae motoneuron morphology in the rat: A quantitative light microscopic study. Journal of Comparative Neurology, 1994, 343, 143-157.	1.6	42
125	Sensorimotor Cortex Ablation Prevents H-Reflex Up-Conditioning and Causes a Paradoxical Response to Down-Conditioning in Rats. Journal of Neurophysiology, 2006, 96, 119-127.	1.8	41
126	Operant conditioning of H-reflex in freely moving monkeys. Journal of Neuroscience Methods, 1990, 31, 145-152.	2.5	40

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127	Recovery of Electromyographic Activity After Transection and Surgical Repair of the Rat Sciatic Nerve. Journal of Neurophysiology, 2007, 97, 1127-1134.	1.8	40
128	Adaptive Laplacian filtering for sensorimotor rhythm-based brainâ€“computer interfaces. Journal of Neural Engineering, 2013, 10, 016002.	3.5	40
129	Effects of ethanol, caffeine, and placebo on the auditory evoked response. Electroencephalography and Clinical Neurophysiology, 1978, 44, 568-574.	0.3	39
130	Brain-computer interfaces (BCIs) for communication and control. , 2007, , .		39
131	Diurnal rhythm in the spinal stretch reflex. Brain Research, 1982, 244, 365-369.	2.2	38
132	Adaptive plasticity in primate spinal stretch reflex: behavior of synergist and antagonist muscles. Journal of Neurophysiology, 1983, 50, 1312-1319.	1.8	37
133	Circadian rhythm in rat H-reflex. Brain Research, 1994, 648, 167-170.	2.2	37
134	An In Vitro Protocol for Recording From Spinal Motoneurons of Adult Rats. Journal of Neurophysiology, 2008, 100, 474-481.	1.8	37
135	EEG-Based Communication: Evaluation of Alternative Signal Prediction Methods - EEG-basierte Kommunikation: Evaluierung alternativer Methoden zur SignalprÃdiktion. Biomedizinische Technik, 1997, 42, 226-233.	0.8	35
136	Brainâ€“Computer Interface Research Comes of Age: Traditional Assumptions Meet Emerging Realities. Journal of Motor Behavior, 2010, 42, 351-353.	0.9	35
137	Operant Conditioning of Rat Soleus H-Reflex Oppositely Affects Another H-Reflex and Changes Locomotor Kinematics. Journal of Neuroscience, 2011, 31, 11370-11375.	3.6	35
138	Brain-computer interfaces. , 2012, , .		35
139	Controlling pre-movement sensorimotor rhythm can improve finger extension after stroke. Journal of Neural Engineering, 2018, 15, 056026.	3.5	35
140	Adaptive plasticity in primate spinal stretch reflex: persistence. Journal of Neurophysiology, 1986, 55, 272-279.	1.8	34
141	Operant Conditioning of Reciprocal Inhibition in Rat Soleus Muscle. Journal of Neurophysiology, 2006, 96, 2144-2150.	1.8	34
142	The education and re-education of the spinal cord. Progress in Brain Research, 2006, 157, 261-399.	1.4	34
143	Harnessing neuroplasticity for clinical applications. Brain, 2012, 135, e215-e215.	7.6	34
144	Targeted neuroplasticity for rehabilitation. Progress in Brain Research, 2015, 218, 157-172.	1.4	34

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145	Chronic exposure of primates to 60-Hz electric and magnetic fields: II. Neurochemical effects. Bioelectromagnetics, 1989, 10, 289-301.	1.6	33
146	Time course of H-reflex conditioning in the rat. Neuroscience Letters, 2001, 302, 85-88.	2.1	33
147	Effects of training pre-movement sensorimotor rhythms on behavioral performance. Journal of Neural Engineering, 2015, 12, 066021.	3.5	33
148	Brainâ€“computer interface use is a skill that user and system acquire together. PLoS Biology, 2018, 16, e2006719.	5.6	33
149	Adaptive plasticity in the spinal stretch reflex: An accessible substrate of memory?. Cellular and Molecular Neurobiology, 1985, 5, 147-165.	3.3	32
150	EEG-based communication: analysis of concurrent EMG activity. Electroencephalography and Clinical Neurophysiology, 1998, 107, 428-433.	0.3	32
151	An exploration of BCI performance variations in people with amyotrophic lateral sclerosis using longitudinal EEG data. Journal of Neural Engineering, 2019, 16, 056031.	3.5	31
152	Hâ€reflex conditioning during locomotion in people with spinal cord injury. Journal of Physiology, 2021, 599, 2453-2469.	2.9	31
153	Operant Conditioning of H-Reflex Increase in Spinal Cordâ€“Injured Rats. Journal of Neurotrauma, 1999, 16, 175-186.	3.4	30
154	Brainâ€“computer interfaces for communication and control. , 0, , 602-614.		30
155	Prediction of subjective ratings of emotional pictures by EEG features. Journal of Neural Engineering, 2017, 14, 016009.	3.5	29
156	Late auditory evoked potentials can occur without brain stem potentials. Electroencephalography and Clinical Neurophysiology, 1983, 56, 304-308.	0.3	28
157	Conditioned H-Reflex Increase Persists After Transection of the Main Corticospinal Tract in Rats. Journal of Neurophysiology, 2003, 90, 3572-3578.	1.8	28
158	H-Reflex Up-Conditioning Encourages Recovery of EMG Activity and H-Reflexes after Sciatic Nerve Transection and Repair in Rats. Journal of Neuroscience, 2010, 30, 16128-16136.	3.6	27
159	The Simplest Motor Skill. Exercise and Sport Sciences Reviews, 2014, 42, 82-90.	3.0	27
160	Operant conditioning of primate triceps surae H-reflex produces reflex asymmetry. Experimental Brain Research, 1989, 75, 35-9.	1.5	25
161	Breathable, large-area epidermal electronic systems for recording electromyographic activity during operant conditioning of H-reflex. Biosensors and Bioelectronics, 2020, 165, 112404.	10.1	25
162	Adaptive plasticity in the spinal stretch reflex. Brain Research, 1983, 267, 196-200.	2.2	24

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163	Operant conditioning of primate H-reflex: phases of development. Neuroscience Letters, 1994, 170, 203-207.	2.1	24
164	Sag During Unfused Tetanic Contractions in Rat Triceps Surae Motor Units. Journal of Neurophysiology, 1999, 81, 2647-2661.	1.8	24
165	Brainâ€“Computer Interfaces for the Operation of Robotic and Prosthetic Devices. Advances in Computers, 2010, 79, 169-187.	1.6	24
166	Soleus Hâ€reflex operant conditioning changes the Hâ€reflex recruitment curve. Muscle and Nerve, 2013, 47, 539-544.	2.2	24
167	Operant conditioning of rat H-reflex: effects on mean latency and duration. Experimental Brain Research, 2001, 136, 274-279.	1.5	23
168	Treadmill training after spinal cord injury: Good but not better. Neurology, 2006, 66, 466-467.	1.1	23
169	Operant conditioning of the soleus H-reflex does not induce long-term changes in the gastrocnemius H-reflexes and does not disturb normal locomotion in humans. Journal of Neurophysiology, 2014, 112, 1439-1446.	1.8	23
170	Locomotor impact of beneficial or nonbeneficial H-reflex conditioning after spinal cord injury. Journal of Neurophysiology, 2014, 111, 1249-1258.	1.8	23
171	Diurnal rhythms in primate spinal reflexes and accompanying cortical somatosensory evoked potentials. Electroencephalography and Clinical Neurophysiology, 1989, 72, 69-80.	0.3	22
172	H-reflex down-conditioning greatly increases the number of identifiable GABAergic interneurons in rat ventral horn. Neuroscience Letters, 2009, 452, 124-129.	2.1	22
173	A comparison of regression techniques for a two-dimensional sensorimotor rhythm-based brainâ€“computer interface. Journal of Neural Engineering, 2010, 7, 016003.	3.5	22
174	Hâ€reflex modulation in the human medial and lateral gastrocnemii during standing and walking. Muscle and Nerve, 2012, 45, 116-125.	2.2	22
175	Corticospinal Tract Transection Permanently Abolishes H-Reflex Down-Conditioning in Rats. Journal of Neurotrauma, 2006, 23, 1705-1712.	3.4	21
176	Chapter 11 Brainâ€“Computer Interface Research at the Wadsworth Center. International Review of Neurobiology, 2009, 86, 147-157.	2.0	21
177	Chronic exposure of primates to 60-Hz electric and magnetic fields: III. Neurophysiologic effects. Bioelectromagnetics, 1989, 10, 303-317.	1.6	20
178	Reversal of H-reflex operant conditioning in the rat. Experimental Brain Research, 1996, 112, 58-62.	1.5	20
179	Operantly Conditioned Plasticity in Spinal Cord. Annals of the New York Academy of Sciences, 1991, 627, 338-348.	3.8	19
180	Treadmill training after spinal cord injury: Good but not better. Neurology, 2006, 67, 1900-1902.	1.1	19

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181	Effects of Hâ€reflex upâ€conditioning on GABAergic terminals on rat soleus motoneurons. European Journal of Neuroscience, 2008, 28, 668-674.	2.6	19
182	Special issue containing contributions from the Fourth International Brainâ€"Computer Interface Meeting. Journal of Neural Engineering, 2011, 8, 020201.	3.5	18
183	Tongue Necrosis Attributed to Ergotamine in Temporal Arteritis. JAMA - Journal of the American Medical Association, 1973, 225, 514.	7.4	17
184	Adaptive plasticity and diurnal rhythm in the primate spinal stretch reflex are independent phenomena. Brain Research, 1984, 300, 385-391.	2.2	17
185	Corticospinal tract transection reduces H-reflex circadian rhythm in rats. Brain Research, 2002, 942, 101-108.	2.2	17
186	Diurnal H-reflex variation in mice. Experimental Brain Research, 2006, 168, 517-528.	1.5	17
187	Long-term recording of external urethral sphincter EMG activity in unanesthetized, unrestrained rats. American Journal of Physiology - Renal Physiology, 2014, 307, F485-F497.	2.7	17
188	Papers from the Fifth International Brainâ€"Computer Interface Meeting. Journal of Neural Engineering, 2014, 11, 030301.	3.5	17
189	Adaptive plasticity in spinal cord. Advances in Neurology, 1993, 59, 163-74.	0.8	17
190	Memory traces in spinal cord produced by H-reflex conditioning: Effects of post-tetanic potentiation. Neuroscience Letters, 1989, 103, 113-119.	2.1	16
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