Jennifer L Collinger

List of Publications by Year
in descending order

66	5,083	172457	118850
papers	citations	29 h-index	62 g-index

83	83	83	4113
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	High-performance neuroprosthetic control by an individual with tetraplegia. Lancet, The, 2013, 381, 557-564.	13.7	1,550
2	Intracortical microstimulation of human somatosensory cortex. Science Translational Medicine, 2016, 8, 361ra141.	12.4	547
3	An Electrocorticographic Brain Interface in an Individual with Tetraplegia. PLoS ONE, 2013, 8, e55344.	2.5	319
4	A brain-computer interface that evokes tactile sensations improves robotic arm control. Science, 2021, 372, 831-836.	12.6	245
5	Functional priorities, assistive technology, and brain-computer interfaces after spinal cord injury. Journal of Rehabilitation Research and Development, 2013, 50, 145.	1.6	197
6	Neural Interface Technology for Rehabilitation: Exploiting and Promoting Neuroplasticity. Physical Medicine and Rehabilitation Clinics of North America, 2010, 21, 157-178.	1.3	175
7	Shoulder Ultrasound Abnormalities, Physical Examination Findings, and Pain in Manual Wheelchair Users With Spinal Cord Injury. Archives of Physical Medicine and Rehabilitation, 2008, 89, 2086-2093.	0.9	105
8	Shoulder Biomechanics During the Push Phase of Wheelchair Propulsion: A Multisite Study of Persons With Paraplegia. Archives of Physical Medicine and Rehabilitation, 2008, 89, 667-676.	0.9	102
9	Human perception of electrical stimulation on the surface of somatosensory cortex. PLoS ONE, 2017, 12, e0176020.	2.5	101
10	Intracortical recording stability in human brainâ€“computer interface users. Journal of Neural Engineering, 2018, 15, 046016.	3.5	100
11	Impact of Surface Type, Wheelchair Weight, and Axle Position on Wheelchair Propulsion by Novice Older Adults. Archives of Physical Medicine and Rehabilitation, 2009, 90, 1076-1083.	0.9	78
12	Blending of brain-machine interface and vision-guided autonomous robotics improves neuroprosthetic arm performance during grasping. Journal of NeuroEngineering and Rehabilitation, 2016, 13, 28.	4.6	78
13	Sensory restoration by epidural stimulation of the lateral spinal cord in upper-limb amputees. ELife, 2020, 9, .	6.0	70
14	Neuroprosthetic technology for individuals with spinal cord injury. Journal of Spinal Cord Medicine, 2013, 36, 258-272.	1.4	64
15	Autonomy infused teleoperation with application to brain computer interface controlled manipulation. Autonomous Robots, 2017, 41, 1401-1422.	4.8	64
16	Decoding and Cortical Source Localization for Intended Movement Direction With MEG. Journal of Neurophysiology, 2010, 104, 2451-2461.	1.8	59
17	Reliability of Quantitative Ultrasound Measures of the Biceps and Supraspinatus Tendons. Academic Radiology, 2009, 16, 1424-1432.	2.5	55
18	Collaborative Approach in the Development of Highâ€Performance Brainâ€“Computer Interfaces for a Neuroprosthetic Arm: Translation from Animal Models to Human Control. Clinical and Translational Science, 2014, 7, 52-59.	3.1	55

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19	Repeatability of ultrasonographic median nerve measures. Muscle and Nerve, 2010, 41, 767-773.	2.2	53
20	Motor cortical activity changes during neuroprosthetic-controlled object interaction. Scientific Reports, 2017, 7, 16947.	3.3	52
21	Neural stimulation and recording performance in human sensorimotor cortex over 1500 days. Journal of Neural Engineering, 2021, 18, 045012.	3.5	50
22	Validation of Grayscale-Based Quantitative Ultrasound in Manual Wheelchair Users. American Journal of Physical Medicine and Rehabilitation, 2010, 89, 390-400.	1.4	48
23	Manual Wheelchair Propulsion Patterns on Natural Surfaces During Start-Up Propulsion. Archives of Physical Medicine and Rehabilitation, 2009, 90, 1916-1923.	0.9	46
24	Perception of microstimulation frequency in human somatosensory cortex. ELife, 2021, 10, .	6.0	44
25	Fully Automated Reduction of Ocular Artifacts in High-Dimensional Neural Data. IEEE Transactions on Biomedical Engineering, 2011, 58, 598-606.	4.2	40
26	MEG-based neurofeedback for hand rehabilitation. Journal of NeuroEngineering and Rehabilitation, 2015, 12, 85.	4.6	38
27	Brain computer interface learning for systems based on electrocorticography and intracortical microelectrode arrays. Frontiers in Integrative Neuroscience, 2015, 9, 40.	2.1	38
28	Remapping cortical modulation for electrocorticographic brainâ€“computer interfaces: a somatotopy-based approach in individuals with upper-limb paralysis. Journal of Neural Engineering, 2018, 15, 026021.	3.5	38
29	Artifact-free recordings in human bidirectional brainâ€“computer interfaces. Journal of Neural Engineering, 2019, 16, 016002.	3.5	37
30	Progress towards restoring upper limb movement and sensation through intracortical brain-computer interfaces. Current Opinion in Biomedical Engineering, 2018, 8, 84-92.	3.4	35
31	Toward Synergy-Based Brain-Machine Interfaces. IEEE Transactions on Information Technology in Biomedicine, 2011, 15, 726-736.	3.2	33
32	Bidirectional brain-computer interfaces. Handbook of Clinical Neurology / Edited By P J Vinken and G W Bruyn, 2020, 168, 163-181.	1.8	31
33	Ethical commitments, principles, and practices guiding intracranial neuroscientific research in humans. Neuron, 2022, 110, 188-194.	8.1	29
34	Ultrasonographic Median Nerve Changes After a Wheelchair Sporting Event. Archives of Physical Medicine and Rehabilitation, 2009, 90, 1489-1494.	0.9	26
35	Effect of an Intense Wheelchair Propulsion Task on Quantitative Ultrasound of Shoulder Tendons. PM and R, 2010, 2, 920-925.	1.6	26
36	Explant Analysis of Utah Electrode Arrays Implanted in Human Cortex for Brain-Computer-Interfaces. Frontiers in Bioengineering and Biotechnology, 2021, 9, 759711.	4.1	26

#	Article	IF	Citations
37	Workshops of the Sixth International Brainâ€“Computer Interface Meeting: brainâ€“computer interfaces past, present, and future. Brain-Computer Interfaces, 2017, 4, 3-36.	1.8	24
38	Motor-related brain activity during action observation: a neural substrate for electrocorticographic brain-computer interfaces after spinal cord injury. Frontiers in Integrative Neuroscience, 2014, 8, 17.	2.1	23
39	Sensing and decoding the neural drive to paralyzed muscles during attempted movements of a person with tetraplegia using a sleeve array. Journal of Neurophysiology, 2021, 126, 2104-2118.	1.8	23
40	Implicit Grasp Force Representation in Human Motor Cortical Recordings. Frontiers in Neuroscience, 2018, 12, 801.	2.8	20
41	The Motor Cortex Has Independent Representations for Ipsilateral and Contralateral Arm Movements But Correlated Representations for Grasping. Cerebral Cortex, 2020, 30, 5400-5409.	2.9	19
42	Craniux: A LabVIEW-Based Modular Software Framework for Brain-Machine Interface Research. Computational Intelligence and Neuroscience, 2011, 2011, 1-13.	1.7	18
43	The impact of electrode characteristics on electrocorticography (ECoG). , 2011, 2011, 3083-6.		16
44	Comparison Between Overground and Dynamometer Manual Wheelchair Propulsion. Journal of Applied Biomechanics, 2012, 28, 412-419.	0.8	16
45	What is the functional relevance of reorganization in primary motor cortex after spinal cord injury?. Neurobiology of Disease, 2019, 121, 286-295.	4.4	16
46	The Effect of Symptoms of Carpal Tunnel Syndrome on Ultrasonographic Median Nerve Measures Before and After Wheelchair Propulsion. PM and R, 2011, 3, 803-810.	1.6	15
47	Altered modulation of sensorimotor rhythms with chronic paralysis. Journal of Neurophysiology, 2017, 118, 2412-2420.	1.8	15
48	Sensorimotor experience and verb-category mapping in human sensory, motor and parietal neurons. Cortex, 2017, 92, 304-319.	2.4	14
49	Demonstration of a portable intracortical brain-computer interface. Brain-Computer Interfaces, 2019, 6, 106-117.	1.8	14
50	Classification of Individual Finger Movements Using Intracortical Recordings in Human Motor Cortex. Neurosurgery, 2020, 87, 630-638.	1.1	14
51	Meeting Proceedings for SCI 2020: Launching a Decade of Disruption in Spinal Cord Injury Research. Journal of Neurotrauma, 2021, 38, 1251-1266.	3.4	14
52	Longevity and reliability of chronic unit recordings using the Utah, intracortical multi-electrode arrays. Journal of Neural Engineering, 2021, 18, 066044.	3.5	14
53	Historical perspectives, challenges, and future directions of implantable brain-computer interfaces for sensorimotor applications. Bioelectronic Medicine, 2021, 7, 14.	2.3	11
54	The effect of wrist posture on extrinsic finger muscle activity during single joint movements. Scientific Reports, 2020, 10, 8377.	3.3	9

#	Article	IF	Citations
55	Workshops of the seventh international brain-computer interface meeting: not getting lost in translation. Brain-Computer Interfaces, 2019, 6, 71-101.	1.8	8
56	Generalizable cursor click decoding using grasp-related neural transients. Journal of Neural Engineering, 2021, 18, 0460e9.	3.5	8
57	Intracortical Microstimulation Feedback Improves Grasp Force Accuracy in a Human Using a Brain-Computer Interface. , 2020, 2020, 3355-3358.		7
58	Corticospinal recruitment of spinal motor neurons in human stroke survivors. Journal of Physiology, 2021, 599, 4357-4373.	2.9	7
59	Classification of hand posture from electrocorticographic signals recorded during varying force conditions. , 2011, 2011, 5782-5.		6
60	Amputee, clinician, and regulator perspectives on current and prospective upper extremity prosthetic technologies. Assistive Technology, 2023, 35, 258-270.	2.0	6
61	Frequency tracking and variable bandwidth for line noise filtering without a reference. , 2011, 2011, 7908-11.		5
62	Decoding Brain States Based on Magnetoencephalography From Prespecified Cortical Regions. IEEE Transactions on Biomedical Engineering, 2016, 63, 30-42.	4.2	5
63	Effects of MEG-based neurofeedback for hand rehabilitation after tetraplegia: preliminary findings in cortical modulations and grip strength. Journal of Neural Engineering, 2020, 17, 026019.	3.5	5
64	Integrating Rehabilitation Engineering Technology With Biologics. PM and R, 2011, 3, S148-57.	1.6	4
65	The impact of distractions on intracortical brainâ€“computer interface control of a robotic arm. Brain-Computer Interfaces, 2022, 9, 23-35.	1.8	2
66	The 8th international brain-computer interface meeting, BCIs: the next frontier. Brain-Computer Interfaces, 2022, 9, 67-68.	1.8	1