Cortical control of a prosthetic arm for self-feeding

Citation Report

#	ARTICLE	IF	CITATIONS
1	A Table Model for Circuit Simulation. , 1986, , .		8
2	Moving minds: Ethical aspects of neural motor prostheses. Biotechnology Journal, 2008, 3, 1493-1501.	3.5	41
3	Brain control of a helping hand. Nature, 2008, 453, 994-995.	27.8	5
4	Direct control of paralysed muscles by cortical neurons. Nature, 2008, 456, 639-642.	27.8	545
5	Deconstructing oncogenesis. Nature, 2008, 453, 995-996.	27.8	9
8	Brain-Computer Interface Operation of Robotic and Prosthetic Devices. Computer, 2008, 41, 52-56.	1.1	155
9	Observation-based learning for brain–machine interfaces. Current Opinion in Neurobiology, 2008, 18, 589-594.	4.2	45
10	Neural basis of sensorimotor learning: modifying internal models. Current Opinion in Neurobiology, 2008, 18, 573-581.	4.2	61
11	Advanced Neurotechnologies for Chronic Neural Interfaces: New Horizons and Clinical Opportunities. Journal of Neuroscience, 2008, 28, 11830-11838.	3.6	256
12	Bridging the Brain to the World: A Perspective on Neural Interface Systems. Neuron, 2008, 60, 511-521.	8.1	262
13	Neural control of computer cursor velocity by decoding motor cortical spiking activity in humans with tetraplegia. Journal of Neural Engineering, 2008, 5, 455-476.	3.5	342
14	Combined Therapies. Neurosurgery, 2008, 63, N12.	1.1	4
15	Upper limb amputees can be induced to experience a rubber hand as their own. Brain, 2008, 131, 3443-3452.	7.6	385
16	Functional network reorganization during learning in a brain-computer interface paradigm. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 19486-19491.	7.1	248
17	Final report on comparison EURAMET.M.P-S6 of PTB and INTI pressure standards for the range 1.5 kPa to 300 kPa of absolute gas pressure. Metrologia, 2008, 45, 07020-07020.	1.2	0
18	Effects of Pumping Sizes on THz Radiation Based on Ultrashort Light Pulse Optical Rectification for High Spatial Resolution T-Ray Imaging. Chinese Physics Letters, 2008, 25, 4262-4265.	3.3	4
19	Turning Thought into Action. New England Journal of Medicine, 2008, 359, 1175-1177.	27.0	20
20	In the spotlight: Neuroengineering. IEEE Reviews in Biomedical Engineering, 2008, 1, 18-20.	18.0	1

#	Article	IF	Citations
21	Biomimetic grasp planning for cortical control of a robotic hand. , 2008, , .		16
22	Decoding hand and cursor kinematics from magnetoencephalographic signals during tool use. , 2008, 2008, 5306-9.		12
24	Seizure Termination by Acidosis Depends on ASIC1a. Neurosurgery, 2008, 63, N10.	1.1	4
26	Brainâ€"computer interface in paralysis. Current Opinion in Neurology, 2008, 21, 634-638.	3.6	221
27	Health Care Reform Tops Presidential Candidates' Agenda. Neurosurgery, 2008, 63, N13-N14.	1.1	0
28	Shunting for Alzheimer's Disease. Neurosurgery, 2008, 63, N11.	1.1	0
29	Genome Search Reveals Gene Variants Associated with Low Bone Mineral Density and Fractures in Osteoporosis. Neurosurgery, 2008, 63, N12.	1.1	0
30	Neuromotor Prosthetics. Neurosurgery, 2008, 63, N8-N9.	1.1	2
31	Engineering the Ideal Bypass Graft. Neurosurgery, 2008, 63, N9.	1.1	0
32	Orally Administered Factor Xa Inhibitor, Rivaroxaban. Neurosurgery, 2008, 63, N10-N11.	1.1	3
33	Toward Optimal Target Placement for Neural Prosthetic Devices. Journal of Neurophysiology, 2008, 100, 3445-3457.	1.8	24
34	Human cortical prostheses: lost in translation?. Neurosurgical Focus, 2009, 27, E5.	2.3	90
35	Unscented Kalman Filter for Brain-Machine Interfaces. PLoS ONE, 2009, 4, e6243.	2.5	165
36	A Wireless Brain-Machine Interface for Real-Time Speech Synthesis. PLoS ONE, 2009, 4, e8218.	2.5	245
37	Extracting kinematic parameters for monkey bipedal walking from cortical neuronal ensemble activity. Frontiers in Integrative Neuroscience, 2009, 3, 3.	2.1	166
38	A brain-machine interface instructed by direct intracortical microstimulation. Frontiers in Integrative Neuroscience, 2009, 3, 20.	2.1	136
39	Impaired Motor Function: Functional Electrical Stimulation. , 2009, , 3047-3060.		5
40	Motion classification by epidural potential measurement of rat for low-invasive brain-machine interface. , 2009, , .		0

#	ARTICLE	IF	CITATIONS
41	A model of motor learning in closed-loop brain-machine interfaces: Predicting neural tuning changes. , 2009, , .		0
42	A biomimetic adaptive algorithm and low-power architecture for implantable neural decoders. , 2009, 2009, 4214-7.		8
43	Instantaneous rate estimation of neuronal point processes from a compressed representation of their nonbinary spike trains. , 2009, , .		0
44	An actor-critic architecture and simulator for goal-directed brain-machine interfaces. , 2009, 2009, 3365-8.		4
45	Prerequesites for symbiotic brain-machine interfaces. , 2009, , .		1
46	The analysis of fish body for Automatic Underwater Vehicle movement. , 2009, , .		1
47	Motion classification using epidural electrodes for low-invasive brain-machine interface. , 2009, 2009, 6469-72.		10
48	A biomedical multiprocessor SoC for closed-loop neuroprosthetic applications. , 2009, , .		15
49	128-channel spike sorting processor with a parallel-folding structure in 90nm process. , 2009, , .		16
50	Subsecond Timing in Primates: Comparison of Interval Production Between Human Subjects and Rhesus Monkeys. Journal of Neurophysiology, 2009, 102, 3191-3202.	1.8	208
51	Neurosecurity: security and privacy for neural devices. Neurosurgical Focus, 2009, 27, E7.	2.3	83
52	Uncooled, millimeter-scale atomic magnetometers with femtotesla sensitivity. , 2009, , .		3
53	Modeling and experimental validation of the learning process during closed-loop BMI operation. , 2009, , .		1
54	A 3D glass microprobe array with embedded silicon for alignment and electrical connection. , 2009, , .		0
55	Neural prosthetic systems: Current problems and future directions. , 2009, 2009, 3369-75.		31
56	Learning to use a brain-machine interface: Model, simulation and analysis. , 2009, 2009, 4551-4.		0
57	EEG-based online two-dimensional cursor control. , 2009, 2009, 4547-50.		4
58	Chapter 2 Bidirectional Interfaces with the Peripheral Nervous System. International Review of Neurobiology, 2009, 86, 23-38.	2.0	54

#	ARTICLE	IF	CITATIONS
59	An automatic measure for classifying clusters of suspected spikes into single cells versus multiunits. Journal of Neural Engineering, 2009, 6, 056001.	3.5	37
60	Decoding flexion of individual fingers using electrocorticographic signals in humans. Journal of Neural Engineering, 2009, 6, 066001.	3.5	247
61	Evaluation of probabilistic methods to predict muscle activity: implications for neuroprosthetics. Journal of Neural Engineering, 2009, 6, 055008.	3.5	18
62	<i>In vivo</i> evaluation of a neural stem cell-seeded prosthesis. Journal of Neural Engineering, 2009, 6, 026005.	3.5	56
63	In vivo performance of a microelectrode neural probe with integrated drug delivery. Neurosurgical Focus, 2009, 27, E8.	2.3	50
64	Robust, long-term control of an electrocorticographic brain-computer interface with fixed parameters. Neurosurgical Focus, 2009, 27, E13.	2.3	72
65	Decoding movement-related cortical potentials from electrocorticography. Neurosurgical Focus, 2009, 27, E11.	2.3	16
66	Chapter 16 Brain–Machine Interfaces for Space Applications—Research, Technological Development, and Opportunities. International Review of Neurobiology, 2009, 86, 213-223.	2.0	7
67	Live-Cell-Driven Insertion of a Nanoneedle. Japanese Journal of Applied Physics, 2009, 48, 107002.	1.5	5
68	FEATURENeuroscience and the future of human-computer interaction. Interactions, 2009, 16, 70-75.	1.0	33
69	Brain–Computer Interfaces: A Gentle Introduction. The Frontiers Collection, 2009, , 1-27.	0.2	131
70	Emergence of a Stable Cortical Map for Neuroprosthetic Control. PLoS Biology, 2009, 7, e1000153.	5.6	469
71	Nanoscale characterization of isolated individual type I collagen fibrils: polarization and piezoelectricity. Nanotechnology, 2009, 20, 085706.	2.6	175
72	Dynamic Encoding of Movement Direction in Motor Cortical Neurons. Journal of Neuroscience, 2009, 29, 13870-13882.	3.6	67
73	Differential representation of arm movement direction in relation to cortical anatomy and function. Journal of Neural Engineering, 2009, 6, 016006.	3.5	112
74	Microstimulation of primary afferent neurons in the L7 dorsal root ganglia using multielectrode arrays in anesthetized cats: thresholds and recruitment properties. Journal of Neural Engineering, 2009, 6, 055009.	3.5	47
75	Decoding human motor activity from EEG single trials for a discrete two-dimensional cursor control. Journal of Neural Engineering, 2009, 6, 046005.	3.5	55
76	A review on directional information in neural signals for brain-machine interfaces. Journal of Physiology (Paris), 2009, 103, 244-254.	2.1	162

#	Article	IF	Citations
77	Offline Decoding of End-Point Forces Using Neural Ensembles: Application to a Brain–Machine Interface. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2009, 17, 254-262.	4.9	25
78	HermesC: Low-Power Wireless Neural Recording System for Freely Moving Primates. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2009, 17, 330-338.	4.9	109
79	Active Microelectronic Neurosensor Arrays for Implantable Brain Communication Interfaces. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2009, 17, 339-345.	4.9	81
80	Editorial: Developing the Next Generation of Hybrid Neuroprosthetic Systems. IEEE Transactions on Biomedical Engineering, 2009, 56, 3-5.	4.2	5
81	Neural control of motor prostheses. Current Opinion in Neurobiology, 2009, 19, 629-633.	4.2	39
82	Bio/Abiotic Interface Constructed from Nanoscale DNA Dendrimer and Conducting Polymer for Ultrasensitive Biomolecular Diagnosis. Small, 2009, 5, 1784-1790.	10.0	91
83	Man, machine and in between. Nature, 2009, 457, 1080-1081.	27.8	120
84	I can see what you see. Nature Neuroscience, 2009, 12, 245-245.	14.8	49
85	Principles of neural ensemble physiology underlying the operation of brain–machine interfaces. Nature Reviews Neuroscience, 2009, 10, 530-540.	10.2	362
86	Neural mind reading of multi-dimensional decisions by monkey mid-brain activity. Neural Networks, 2009, 22, 1247-1256.	5.9	17
87	Methods for estimating neural firing rates, and their application to brain–machine interfaces. Neural Networks, 2009, 22, 1235-1246.	5.9	74
88	Exploiting co-adaptation for the design of symbiotic neuroprosthetic assistants. Neural Networks, 2009, 22, 305-315.	5.9	46
89	Bias, optimal linear estimation, and the differences between open-loop simulation and closed-loop performance of spiking-based brain–computer interface algorithms. Neural Networks, 2009, 22, 1203-1213.	5.9	114
90	Control protocol for robust in vitro glial scar formation around microwires: Essential roles of bFGF and serum in gliosis. Journal of Neuroscience Methods, 2009, 181, 170-177.	2.5	32
91	Flavopiridol reduces the impedance of neural prostheses in vivo without affecting recording quality. Journal of Neuroscience Methods, 2009, 183, 149-157.	2.5	48
92	Self-regulation and the hypothesis of experience-based selection: Investigating indirect conscious control. Consciousness and Cognition, 2009, 18, 740-753.	1.5	3
93	In the spotlight: neuroengineering. IEEE Reviews in Biomedical Engineering, 2009, 2, 18-20.	18.0	11
94	Pontine Nucleus audio stimuli detection & modeling for brain machine interface rehabilitation of conditional learning. , 2009, , .		1

#	ARTICLE	IF	CITATIONS
95	Asynchronous non-invasive brain-actuated control of an intelligent wheelchair. , 2009, 2009, 3361-4.		96
96	Intention, Action Planning, and Decision Making in Parietal-Frontal Circuits. Neuron, 2009, 63, 568-583.	8.1	561
97	Decoding three-dimensional hand kinematics from electroencephalographic signals. , 2009, 2009, 5010-3.		23
98	Control of a brainâ€"computer interface without spike sorting. Journal of Neural Engineering, 2009, 6, 055004.	3.5	148
99	The brainâ€"computer interface cycle. Journal of Neural Engineering, 2009, 6, 041001.	3.5	220
100	The Science of Neural Interface Systems. Annual Review of Neuroscience, 2009, 32, 249-266.	10.7	326
101	Lower layers in the motor cortex are more effective targets for penetrating microelectrodes in cortical prostheses. Journal of Neural Engineering, 2009, 6, 026004.	3.5	10
102	Sensor Modalities for Brain-Computer Interfacing. Lecture Notes in Computer Science, 2009, , 616-622.	1.3	7
103	Design of differential Near-Infrared Spectroscopy based Brain Machine Interface. , 2009, , .		10
104	Real-time implementation of biofidelic SA1 model for tactile feedback. , 2009, 2009, 185-8.		7
105	Biologically-inspired dynamical systems for movement generation: Automatic real-time goal adaptation and obstacle avoidance. , 2009, , .		184
106	An Implantable Microactuated Intrafascicular Electrode for Peripheral Nerves. IEEE Transactions on Biomedical Engineering, 2009, 56, 2701-2706.	4.2	20
107	Multiple Types of Movement-Related Information Encoded in Hindlimb/Trunk Cortex in Rats and Potentially Available for Brainâ€"Machine Interface Controls. IEEE Transactions on Biomedical Engineering, 2009, 56, 2712-2716.	4.2	36
108	Decoding center-out hand velocity from MEG signals during visuomotor adaptation. NeuroImage, 2009, 47, 1691-1700.	4.2	64
109	Brain Signals for Brainâ€"Computer Interfaces. The Frontiers Collection, 2009, , 29-46.	0.2	9
110	How are actions physically implemented?. Progress in Brain Research, 2009, 174, 303-318.	1.4	3
111	Chapter 8 Neurofeedback and Brainâ€"Computer Interface. International Review of Neurobiology, 2009, 86, 107-117.	2.0	122
112	Evolution of brain-computer interfaces: going beyond classic motor physiology. Neurosurgical Focus, 2009, 27, E4.	2.3	96

#	Article	IF	Citations
113	A Hybrid FES Rehabilitation System Based on CPG and BCI Technology for Locomotion: A Preliminary Study. Lecture Notes in Computer Science, 2009, , 1073-1084.	1.3	6
114	Factor-Analysis Methods for Higher-Performance Neural Prostheses. Journal of Neurophysiology, 2009, 102, 1315-1330.	1.8	95
115	Prosthetic Models. Philosophy of Science, 2010, 77, 840-851.	1.0	13
116	In Vivo Electrical Conductivity across Critical Nerve Gaps Using Poly(3,4-ethylenedioxythiophene)-Coated Neural Interfaces. Plastic and Reconstructive Surgery, 2010, 126, 1865-1873.	1.4	24
117	The Role of Assistive Robotics in the Lives of Persons with Disability. American Journal of Physical Medicine and Rehabilitation, 2010, 89, 509-521.	1.4	159
118	Neural decoding based on probabilistic neural network. Journal of Zhejiang University: Science B, 2010, 11, 298-306.	2.8	6
119	THE B-I-C-A OF BIOLOGICALLY INSPIRED COGNITIVE ARCHITECTURES. International Journal of Machine Consciousness, 2010, 02, 171-192.	1.0	7
120	Bayesian decoding of neural spike trains. Annals of the Institute of Statistical Mathematics, 2010, 62, 37-59.	0.8	39
121	Comparison of brainâ€"computer interface decoding algorithms in open-loop and closed-loop control. Journal of Computational Neuroscience, 2010, 29, 73-87.	1.0	127
122	System Architecture for Stiffness Control in Brainâ€"Machine Interfaces. IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans, 2010, 40, 732-742.	2.9	7
123	Body Schema in Robotics: A Review. IEEE Transactions on Autonomous Mental Development, 2010, 2, 304-324.	1.6	203
124	Dimensionality Reduction in Control and Coordination of the Human Hand. IEEE Transactions on Biomedical Engineering, 2010, 57, 284-295.	4.2	62
125	Decoding 3-D Reach and Grasp Kinematics From High-Frequency Local Field Potentials in Primate Primary Motor Cortex. IEEE Transactions on Biomedical Engineering, 2010, 57, 1774-1784.	4.2	155
126	Temporal Postural Synergies of the Hand in Rapid Grasping Tasks. IEEE Transactions on Information Technology in Biomedicine, 2010, 14, 986-994.	3.2	41
127	Development of Closed-Loop Neural Interface Technology in a Rat Model: Combining Motor Cortex Operant Conditioning With Visual Cortex Microstimulation. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2010, 18, 117-126.	4.9	25
128	EEG Control of a Virtual Helicopter in 3-Dimensional Space Using Intelligent Control Strategies. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2010, 18, 581-589.	4.9	188
129	Listening to Brain Microcircuits for Interfacing With External Worldâ€"Progress in Wireless Implantable Microelectronic Neuroengineering Devices. Proceedings of the IEEE, 2010, 98, 375-388.	21.3	114
130	Invasive or Noninvasive: Understanding Brain-Machine Interface Technology [Conversations in BME. IEEE Engineering in Medicine and Biology Magazine, 2010, 29, 16-22.	0.8	91

#	ARTICLE	IF	CITATIONS
131	Implantable brain computer interface: Challenges to neurotechnology translation. Neurobiology of Disease, 2010, 38, 369-375.	4.4	41
132	Autonomous head-mounted electrophysiology systems for freely behaving primates. Current Opinion in Neurobiology, 2010, 20, 676-686.	4.2	35
133	Evolution of brain–computer interface: action potentials, local field potentials and electrocorticograms. Current Opinion in Neurobiology, 2010, 20, 741-745.	4.2	88
134	Mental tasks-based brain–robot interface. Robotics and Autonomous Systems, 2010, 58, 1238-1245.	5.1	79
135	Field-programmable gate array implementation of a probabilistic neural network for motor cortical decoding in rats. Journal of Neuroscience Methods, 2010, 185, 299-306.	2.5	28
136	Brain–computer interfaces for speech communication. Speech Communication, 2010, 52, 367-379.	2.8	214
137	Q&A: Robotics as a tool to understand the brain. BMC Biology, 2010, 8, 92.	3.8	19
138	On-line, voluntary control of human temporal lobe neurons. Nature, 2010, 467, 1104-1108.	27.8	140
139	In-cell recordings by extracellular microelectrodes. Nature Methods, 2010, 7, 200-202.	19.0	249
141	Electrical stimulation approaches to stroke recovery. , 0, , 247-258.		0
142	Neurorehabilitation Following Stroke. , 2010, , 377-394.		2
143	Infrastructure for studying decision – Making processes. , 2010, , .		0
144	Seven years of recording from monkey cortex with a chronically implanted multiple microelectrode. Frontiers in Neuroengineering, 2010, 3, 6.	4.8	62
145	Can Electrocorticography (ECoG) Support Robust and Powerful Brain-Computer Interfaces?. Frontiers in Neuroengineering, 2010, 3, 9.	4.8	57
146	Characterization of neural activity recorded from the descending tracts of the rat spinal cord. Frontiers in Neuroscience, 2010, 4, 21.	2.8	12
147	Rewiring neural interactions by micro-stimulation. Frontiers in Systems Neuroscience, 2010, 4, .	2.5	76
148	Detection and Classification of Extracellular Action Potential Recordings. , 2010, , 15-74.		11
149	Real-Time Decision Fusion for Multimodal Neural Prosthetic Devices. PLoS ONE, 2010, 5, e9493.	2.5	9

#	ARTICLE	IF	CITATIONS
150	The N-slit interferometer: an extended configuration. Journal of Optics (United Kingdom), 2010, 12, 015705.	2.2	4
151	Gelatine-embedded electrodesâ€"a novel biocompatible vehicle allowing implantation of highly flexible microelectrodes. Journal of Neural Engineering, 2010, 7, 046005.	3.5	82
152	Relationship between speed and EEG activity during imagined and executed hand movements. Journal of Neural Engineering, 2010, 7, 026001.	3.5	117
153	Instantaneous estimation of motor cortical neural encoding for online brainâ€"machine interfaces. Journal of Neural Engineering, 2010, 7, 056010.	3.5	26
154	In search of more robust decoding algorithms for neural prostheses, a data driven approach. , 2010, 2010, 4172-5.		3
155	EEG-based Brain-Computer Interfaces: An Overview of Basic Concepts and Clinical Applications in Neurorehabilitation. Reviews in the Neurosciences, 2010, 21, 451-68.	2.9	94
156	Cognitively driven brain machine control using neural signals in the parietal reach region. , 2010, 2010, 3329-32.		7
157	Motion generation through biologically-inspired torque pulses. , 2010, , .		2
158	A closed-loop Brain-Machine Interface simulator based on computer mouse control. , 2010, , .		1
159	Extracting an evaluative feedback from the brain for adaptation of motor neuroprosthetic decoders. , 2010, 2010, 1682-5.		0
160	Decoder remapping to counteract neuron loss in brain-machine interfaces. , 2010, 2010, 1670-3.		8
161	Reconstructing Three-Dimensional Hand Movements from Noninvasive Electroencephalographic Signals. Journal of Neuroscience, 2010, 30, 3432-3437.	3.6	313
162	Approximate Methods for State-Space Models. Journal of the American Statistical Association, 2010, 105, 170-180.	3.1	47
163	Evaluation of a wireless wearable tongueâ€"computer interface by individuals with high-level spinal cord injuries. Journal of Neural Engineering, 2010, 7, 026008.	3.5	90
164	Development of speech prostheses: current status and recent advances. Expert Review of Medical Devices, 2010, 7, 667-679.	2.8	18
165	A SOMEWHAT NEGLECTED ASPECT OF INSECT NEUROPHYSIOLOGY. Journal of Experimental Biology, 2010, 213, 3077-3079.	1.7	0
166	Electroencephalographic (EEG) control of three-dimensional movement. Journal of Neural Engineering, 2010, 7, 036007.	3.5	351
167	DECODING GRATING ORIENTATION FROM MICROELECTRODE ARRAY RECORDINGS IN MONKEY CORTICAL AREA V4. International Journal of Neural Systems, 2010, 20, 95-108.	5.2	17

#	ARTICLE	IF	CITATIONS
168	Incorporating Feedback from Multiple Sensory Modalities Enhances Brain–Machine Interface Control. Journal of Neuroscience, 2010, 30, 16777-16787.	3.6	203
169	Latent Inputs Improve Estimates of Neural Encoding in Motor Cortex. Journal of Neuroscience, 2010, 30, 13873-13882.	3.6	28
170	Decoding Complete Reach and Grasp Actions from Local Primary Motor Cortex Populations. Journal of Neuroscience, 2010, 30, 9659-9669.	3.6	300
171	A Reward-Modulated Hebbian Learning Rule Can Explain Experimentally Observed Network Reorganization in a Brain Control Task. Journal of Neuroscience, 2010, 30, 8400-8410.	3.6	104
172	Seeding neural progenitor cells on silicon-based neural probes. Journal of Neurosurgery, 2010, 113, 673-681.	1.6	38
173	Brain–Computer Interfaces for the Operation of Robotic and Prosthetic Devices. Advances in Computers, 2010, 79, 169-187.	1.6	24
174	Ensemble Fractional Sensitivity: A Quantitative Approach to Neuron Selection for Decoding Motor Tasks. Computational Intelligence and Neuroscience, 2010, 2010, 1-9.	1.7	15
175	Cognitive Neural Prosthetics. Annual Review of Psychology, 2010, 61, 169-190.	17.7	162
176	Neural Decoding for Motor and Communication Prostheses. , 2010, , 219-263.		3
177	Spiking Neural Networks for Cortical Neuronal Spike Train Decoding. Neural Computation, 2010, 22, 1060-1085.	2.2	21
178	Decoding hand movement velocity from electroencephalogram signals during a drawing task. BioMedical Engineering OnLine, 2010, 9, 64.	2.7	56
179	Brain-computer interfaces: military, neurosurgical, and ethical perspective. Neurosurgical Focus, 2010, 28, E25.	2.3	62
180	Decoding and Cortical Source Localization for Intended Movement Direction With MEG. Journal of Neurophysiology, 2010, 104, 2451-2461.	1.8	59
181	Towards a user-friendly brain–computer interface: Initial tests in ALS and PLS patients. Clinical Neurophysiology, 2010, 121, 1293-1303.	1.5	71
182	Neural Interface Technology for Rehabilitation: Exploiting and Promoting Neuroplasticity. Physical Medicine and Rehabilitation Clinics of North America, 2010, 21, 157-178.	1.3	175
183	Learning in Closed-Loop Brain–Machine Interfaces: Modeling and Experimental Validation. IEEE Transactions on Systems, Man, and Cybernetics, 2010, 40, 1387-1397.	5.0	46
184	Neural Correlates of Skill Acquisition with a Cortical Brain–Machine Interface. Journal of Motor Behavior, 2010, 42, 355-360.	0.9	45
185	P300-Based Brain-Computer Interface for Internet Browsing. Advances in Intelligent and Soft Computing, 2010, , 615-622.	0.2	16

#	ARTICLE	IF	CITATIONS
186	An Articulatory Speech-Prosthesis System. , 2010, , .		7
187	Brain-Computer Interfaces. The Frontiers Collection, 2010, , .	0.2	192
188	Brain-Computer Interfaces. Human-computer Interaction Series, 2010, , .	0.6	154
189	An activity-dependent brain microstimulation SoC with integrated 23nV/rtHz neural recording front-end and 750nW spike discrimination processor. , 2010, , .		4
190	Active microelectronic neurosensory arrays for implantable brain communication interfaces. , 2010, , .		1
191	Modular control of limb kinematics during human walking. , 2010, , .		10
192	Chronic recordings from rat motor cortex for developing neural prostheses. , 2010, , .		1
193	Decoding Stimulus-Reward Pairing From Local Field Potentials Recorded From Monkey Visual Cortex. IEEE Transactions on Neural Networks, 2010, 21, 1892-1902.	4.2	13
194	Newly developed integration method for biomedical implants using flexible polymer cable. , 2010, , .		2
195	Implementation of a real time decoder for real neuroprosthetic applications. , 2010, , .		1
196	A Probabilistic Decoding Approach to a Neural Prosthesis for Speech. International Conference on Bioinformatics and Biomedical Engineering: [proceedings] International Conference on Bioinformatics and Biomedical Engineering, 2010, , .	0.0	2
197	Construction of real-time BMI control system based on motor imagery. , 2011, , .		2
198	Changes in emotional state modulate neuronal firing rates of human speech motor cortex: A case study in long-term recording. Neurocase, 2011, 17, 381-393.	0.6	10
199	Cortical control of reach and grasp kinematics in a virtual environment using musculoskeletal modeling software. , 2011, , .		10
200	Decoding phase-based information from SSVEP recordings: A comparative study. , 2011, , .		2
201	Towards hierarchical BCIs for robotic control. , 2011, , .		8
202	Symbiotic Brain-Machine Interface decoding using simultaneous motor and reward neural representation. , 2011, , .		0
203	Temporal alignment of electrocorticographic recordings using upper limb kinematics. , 2011, , .		0

#	Article	IF	Citations
204	Continuous state-dependent decoders for brain machine interfaces. , 2011, , .		5
205	WIMAGINE: A wireless, low power, 64-channel ECoG recording platform for implantable BCI applications. , 2011, , .		9
206	Exploring new and emerging applications of Cognitive Radio systems: Preliminary insights and framework. , 2011, , .		2
207	High-performance neural prosthetic control along nstructed paths. , 2011, , .		2
208	Identifying neuron communities during a reach and grasp task using an unsupervised clustering analysis. , 2011, 2011, 6401-4.		2
209	Craniux: A LabVIEW-Based Modular Software Framework for Brain-Machine Interface Research. Computational Intelligence and Neuroscience, 2011, 2011, 1-13.	1.7	18
210	Adaptive Kalman filtering for closed-loop Brain-Machine Interface systems. , 2011, , .		24
211	Continuous 3D control of a virtual helicopter using a motor imagery based BCI. , 2011, , .		1
212	Neural control of cursor trajectory and click by a human with tetraplegia 1000 days after implant of an intracortical microelectrode array. Journal of Neural Engineering, 2011, 8, 025027.	3.5	429
213	Current trends in hardware and software for brain–computer interfaces (BCIs). Journal of Neural Engineering, 2011, 8, 025001.	3.5	91
215	Reversible large-scale modification of cortical networks during neuroprosthetic control. Nature Neuroscience, 2011, 14, 662-667.	14.8	237
216	Design and implementation of cubic spline interpolation for spike sorting microsystems. , 2011, , .		7
217	Neural Interfaces for Control of Upper Limb Prostheses: The State of the Art and Future Possibilities. PM and R, 2011, 3, 55-67.	1.6	148
218	Integrating Rehabilitation Engineering Technology With Biologics. PM and R, 2011, 3, S148-57.	1.6	4
219	An adaptive brain-computer interface for humanoid robot control. , 2011, , .		47
220	Volitional control of single cortical neurons in a brain–machine interface. Journal of Neural Engineering, 2011, 8, 025017.	3.5	62
221	The neural optimal control hierarchy for motor control. Journal of Neural Engineering, 2011, 8, 065009.	3.5	21
222	Brain–Computer Interfaces in the Rehabilitation of Stroke and Neurotrauma. , 2011, , 3-18.		32

#	Article	IF	Citations
223	Epigenetics and Disease. , 2011, , .		5
224	Chronic recordings from the rat spinal cord descending tracts with microwires. , 2011, 2011, 2993-6.		3
225	A cortical neural prosthesis for restoring and enhancing memory. Journal of Neural Engineering, 2011, 8, 046017.	3.5	242
226	Long-term stability of neural prosthetic control signals from silicon cortical arrays in rhesus macaque motor cortex. Journal of Neural Engineering, 2011, 8, 045005.	3.5	285
228	Brain-Computer Interfaces Using Electrocorticographic Signals. IEEE Reviews in Biomedical Engineering, 2011, 4, 140-154.	18.0	329
229	Foundations of Augmented Cognition. Directing the Future of Adaptive Systems. Lecture Notes in Computer Science, 2011, , .	1.3	8
230	Goal selection versus process control while learning to use a brain–computer interface. Journal of Neural Engineering, 2011, 8, 036012.	3.5	19
231	Hand movement decoding by phase-locking low frequency EEG signals. , 2011, 2011, 6335-8.		8
232	Learning to move machines with the mind. Trends in Neurosciences, 2011, 34, 61-75.	8.6	128
233	Sensing with the Motor Cortex. Neuron, 2011, 72, 477-487.	8.1	148
234	Decoding the activity of grasping neurons recorded from the ventral premotor area F5 of the macaque monkey. Neuroscience, 2011, 188, 80-94.	2.3	48
235	Decoding vowels and consonants in spoken and imagined words using electrocorticographic signals in humans. Journal of Neural Engineering, 2011, 8, 046028.	3.5	173
236	Toward a whole-body neuroprosthetic. Progress in Brain Research, 2011, 194, 47-60.	1.4	41
237	Active tactile exploration using a brain–machine–brain interface. Nature, 2011, 479, 228-231.	27.8	605
238	Making the lifetime connection between brain and machine for restoring and enhancing function. Progress in Brain Research, 2011, 194, 1-25.	1.4	33
239	A Battery-Powered Activity-Dependent Intracortical Microstimulation IC for Brain-Machine-Brain Interface. IEEE Journal of Solid-State Circuits, 2011, 46, 731-745.	5.4	145
240	An Articulatory Silicon Vocal Tract for Speech and Hearing Prostheses. IEEE Transactions on Biomedical Circuits and Systems, 2011, 5, 339-346.	4.0	52
241	Integration of silicon-via electrodes with different recording characteristics on a glass microprobe using a glass reflowing process. Biosensors and Bioelectronics, 2011, 26, 4739-4746.	10.1	7

#	ARTICLE	IF	CITATIONS
242	Development of a prosthetic hand regarding complex motion and controllability. Periodica Polytechnica, Mechanical Engineering, 2011, 55, 101.	1.4	1
243	Future developments in brain-machine interface research. Clinics, 2011, 66, 25-32.	1.5	96
244	Modality-Specific Axonal Regeneration: Toward Selective Regenerative Neural Interfaces. Frontiers in Neuroengineering, 2011, 4, 11.	4.8	34
245	Classification of intended phoneme production from chronic intracortical microelectrode recordings in speech-motor cortex. Frontiers in Neuroscience, 2011, 5, 65.	2.8	78
246	Real-Time Position Reconstruction with Hippocampal Place Cells. Frontiers in Neuroscience, 2011, 5, 85.	2.8	35
247	Prior Knowledge Improves Decoding of Finger Flexion from Electrocorticographic Signals. Frontiers in Neuroscience, 2011, 5, 127.	2.8	24
248	Cortical Correlates of Fittsâ€™ Law. Frontiers in Integrative Neuroscience, 2011, 5, 85.	2.1	19
249	Comprehensive Analysis of Tissue Preservation and Recording Quality from Chronic Multielectrode Implants. PLoS ONE, 2011, 6, e27554.	2.5	94
250	Real-Time Decoding of Brain Responses to Visuospatial Attention Using 7T fMRI. PLoS ONE, 2011, 6, e27638.	2.5	30
251	Motor cortical prediction of EMG: evidence that a kinetic brain-machine interface may be robust across altered movement dynamics. Journal of Neurophysiology, 2011, 106, 564-575.	1.8	33
252	Conceptual and ethical issues with brainâ€“hardware interfaces. Current Opinion in Psychiatry, 2011, 24, 495-501.	6.3	52
253	Dissociating motor cortex from the motor. Journal of Physiology, 2011, 589, 5613-5624.	2.9	58
254	In situ characterization of the brainâ€“microdevice interface using Device Capture Histology. Journal of Neuroscience Methods, 2011, 201, 67-77.	2.5	51
255	A Low-Power 32-Channel Digitally Programmable Neural Recording Integrated Circuit. IEEE Transactions on Biomedical Circuits and Systems, 2011, 5, 592-602.	4.0	129
256	Humanâ€“Robot Synchrony: Flexible Assistance Using Adaptive Oscillators. IEEE Transactions on Biomedical Engineering, 2011, 58, 1001-1012.	4.2	129
257	Challenges and Opportunities for Next-Generation Intracortically Based Neural Prostheses. IEEE Transactions on Biomedical Engineering, 2011, 58, 1891-1899.	4.2	137
258	A Miniaturized System for Spike-Triggered Intracortical Microstimulation in an Ambulatory Rat. IEEE Transactions on Biomedical Engineering, 2011, 58, 2589-2597.	4.2	43
259	Toward Synergy-Based Brain-Machine Interfaces. IEEE Transactions on Information Technology in Biomedicine, 2011, 15, 726-736.	3.2	33

#	ARTICLE	IF	CITATIONS
260	Efficient Decoding With Steady-State Kalman Filter in Neural Interface Systems. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2011, 19, 25-34.	4.9	88
261	Point-and-Click Cursor Control With an Intracortical Neural Interface System by Humans With Tetraplegia. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2011, 19, 193-203.	4.9	149
262	Interfacing With the Computational Brain. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2011, 19, 534-541.	4.9	42
263	Limb-State Information Encoded by Peripheral and Central Somatosensory Neurons: Implications for an Afferent Interface. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2011, 19, 501-513.	4.9	88
264	Continuous neuronal ensemble control of simulated arm reaching by a human with tetraplegia. Journal of Neural Engineering, 2011, 8, 034003.	3.5	91
265	Encoding-based brain-computer interface controlled by non-motor area of rat brain. Science China Life Sciences, 2011, 54, 841-853.	4.9	6
266	A model using mutual influence of firing rates of corticomotoneurons for learning a precision grip task. BMC Neuroscience, 2011, 12, .	1.9	0
267	Decoding of grasping information from neural signals recorded using peripheral intrafascicular interfaces. Journal of NeuroEngineering and Rehabilitation, 2011, 8, 53.	4.6	89
268	A study on combining local field potential and single unit activity for better neural decoding. International Journal of Imaging Systems and Technology, 2011, 21, 165-172.	4.1	9
269	Sensory feedback for upper limb prostheses. Progress in Brain Research, 2011, 192, 69-81.	1.4	26
270	Stimulus-driven changes in sensorimotor behavior and neuronal functional connectivity. Progress in Brain Research, 2011, 192, 83-102.	1.4	12
271	Inference from populations: going beyond models. Progress in Brain Research, 2011, 192, 103-112.	1.4	15
272	Brain-computer interface research at Katholieke Universiteit Leuven. , 2011, , .		6
273	Adaptive Decoding for Brain-Machine Interfaces Through Bayesian Parameter Updates. Neural Computation, 2011, 23, 3162-3204.	2.2	107
274	Reconstructing hand kinematics during reach to grasp movements from electroencephalographic signals. , 2011, 2011, 5444-7.		34
275	Detection and classification of multiple finger movements using a chronically implanted Utah Electrode Array. , 2011, 2011, 7320-3.		3
276	Comparisons between linear and nonlinear methods for decoding motor cortical activities of monkey. , 2011, 2011, 4207-10.		5
277	Monkey models for brain-machine interfaces: The need for maintaining diversity. , 2011, 2011, 1301-5.		24

#	Article	IF	Citations
279	Reinforcement learning via kernel temporal difference. , 2011, 2011, 5662-5.		14
280	Brain-controlled telepresence robot by motor-disabled people. , 2011, 2011, 4227-30.		85
281	A pilot study on two stage decoding strategies. , 2011, 2011, 3700-3.		1
282	Neural decoding using local field potential based on partial least squares regression. , 2011, 2011, 6365-6.		1
283	Decoding semantic information from human electrocorticographic (ECoG) signals. , 2011, 2011, 6294-8.		30
284	Subject-adaptive steady-state visual evoked potential detection for brain-computer interface. , 2011, , .		4
285	Simulated and experimental investigation on synergy of LHW and IBW in HT-7. Plasma Physics and Controlled Fusion, 2011, 53, 065018.	2.1	2
286	Functional MRI-based identification of brain areas involved in motor imagery for implantable brainâ€"computer interfaces. Journal of Neural Engineering, 2011, 8, 025007.	3.5	55
287	Attentionâ€"Voluntary Control of Brain Cells. Science, 2011, 332, 1512-1513.	12.6	12
288	Neuroplasticity of the Sensorimotor Cortex during Learning. Neural Plasticity, 2011, 2011, 1-11.	2.2	21
289	Multiple factors may influence the performance of a visual prosthesis based on intracortical microstimulation: nonhuman primate behavioural experimentation. Journal of Neural Engineering, 2011, 8, 035001.	3.5	79
290	Long term _in vitro_ functional stability and recording longevity of fully integrated wireless neural interfaces based on the Utah Slant Electrode Array. Journal of Neural Engineering, 2011, 8, 045004.	3.5	40
291	Relationships among low-frequency local field potentials, spiking activity, and three-dimensional reach and grasp kinematics in primary motor and ventral premotor cortices. Journal of Neurophysiology, 2011, 105, 1603-1619.	1.8	128
292	A closed-loop human simulator for investigating the role of feedback control in brain-machine interfaces. Journal of Neurophysiology, 2011, 105, 1932-1949.	1.8	141
293	Use of a Bayesian maximum-likelihood classifier to generate training data for brainâ€"machine interfaces. Journal of Neural Engineering, 2011, 8, 046009.	3.5	16
294	Adaptation to a Cortex-Controlled Robot Attached at the Pelvis and Engaged during Locomotion in Rats. Journal of Neuroscience, 2011, 31, 3110-3128.	3.6	37
295	Grasp Movement Decoding from Premotor and Parietal Cortex. Journal of Neuroscience, 2011, 31, 14386-14398.	3.6	74
296	Mimicking muscle activity with electrical stimulation. Journal of Neural Engineering, 2011, 8, 016009.	3.5	18

#	ARTICLE	IF	CITATIONS
297	Optimizing the Decoding of Movement Goals from Local Field Potentials in Macaque Cortex. Journal of Neuroscience, 2011, 31, 18412-18422.	3.6	100
298	Asynchronous decoding of finger position and of EMG during precision grip using CM cell activity: Application to robot control. Journal of Integrative Neuroscience, 2011, 10, 489-511.	1.7	5
299	Wireless communication with implanted medical devices using the conductive properties of the body. Expert Review of Medical Devices, 2011, 8, 427-433.	2.8	91
300	Towards a complete description of grasping kinematics: A framework for quantifying human grasping and manipulation. , 2011, 2011, 8247-50.		8
301	Design principles for noninvasive brain-machine interfaces. , 2011, 2011, 4223-6.		0
302	A dynamical systems view of motor preparation. Progress in Brain Research, 2011, 192, 33-58.	1.4	62
303	A new type of recording chamber with an easy-to-exchange microdrive array for chronic recordings in macaque monkeys. Journal of Neurophysiology, 2011, 105, 3092-3105.	1.8	27
304	Electromyogram pattern recognition for control of powered upper-limb prostheses: State of the art and challenges for clinical use. Journal of Rehabilitation Research and Development, 2011, 48, 643.	1.6	741
305	Real-time control of a prosthetic hand using human electrocorticography signals. Journal of Neurosurgery, 2011, 114, 1715-1722.	1.6	189
306	SiC for Brain–Machine Interface (BMI). , 2012, , 257-307.		3
307	Brain–machine interfaces and transcranial stimulation. Handbook of Clinical Neurology / Edited By P J Vinken and G W Bruyn, 2012, 109, 435-444.	1.8	3
308	A system for recording neural activity chronically and simultaneously from multiple cortical and subcortical regions in nonhuman primates. Journal of Neurophysiology, 2012, 107, 1979-1995.	1.8	36
309	Shaping the Dynamics of a Bidirectional Neural Interface. PLoS Computational Biology, 2012, 8, e1002578.	3.2	24
310	Minimizing data transfer with sustained performance in wireless brain–machine interfaces. Journal of Neural Engineering, 2012, 9, 036005.	3.5	5
311	Error-related electrocorticographic activity in humans during continuous movements. Journal of Neural Engineering, 2012, 9, 026007.	3.5	44
312	A recurrent neural network for closed-loop intracortical brain–machine interface decoders. Journal of Neural Engineering, 2012, 9, 026027.	3.5	151
313	Management of Chronic Myelopathy Symptoms and Activities of Daily Living. Seminars in Neurology, 2012, 32, 161-168.	1.4	1
314	Low-cost intracortical spiking recordings compression with classification abilities for implanted BMI devices. , 2012, 2012, 2623-6.		2

#	ARTICLE	IF	CITATIONS
315	Brain-machine interface control of a robot arm using actor-critic rainforcement learning. , 2012, 2012, 4108-11.		22
316	Mutual information analysis on non-stationary neuron importance for brain machine interfaces. , 2012, 2012, 2748-51.		3
317	A framework for relating neural activity to freely moving behavior. , 2012, 2012, 2736-9.		1
318	Brain-controlled robot grabs attention. Nature, 2012, 485, 317-318.	27.8	5
319	Fish heads and human disease. Nature, 2012, 485, 318-319.	27.8	4
320	Technology for mobility in SCI 10 years from now. Spinal Cord, 2012, 50, 358-363.	1.9	6
321	Soldering-based easy packaging of thin polyimide multichannel electrodes for neuro-signal recording. Journal of Micromechanics and Microengineering, 2012, 22, 115017.	2.6	5
322	Spatial and temporal characteristics of V1 microstimulation during chronic implantation of a microelectrode array in a behaving macaque. Journal of Neural Engineering, 2012, 9, 065003.	3.5	74
323	Cognitive signals for brainâ€"machine interfaces in posterior parietal cortex include continuous 3D trajectory commands. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 17075-17080.	7.1	87
324	A brain machine interface control algorithm designed from a feedback control perspective. , 2012, 2012, 1318-22.		18
325	Reliable neural interface: The first quarter century of the Neurotrophic Electrode. , 2012, 2012, 3332-5.		2
326	State-space control of prosthetic hand shape. , 2012, 2012, 964-7.		3
327	Bayesian learning in assisted brain-computer interface tasks. , 2012, 2012, 2740-3.		5
328	A neurobehavioral device to study the neural mechanism in reach to grasp task. , 2012, , .		5
329	Low power and high accuracy spike sorting microprocessor with on-line interpolation and re-alignment in 90nm CMOS process. , 2012, 2012, 4485-8.		5
330	Design of optimal stimulation patterns for neuronal ensembles based on Volterra-type hierarchical modeling. Journal of Neural Engineering, 2012, 9, 066003.	3.5	6
331	Using neuronal states for transcribing cortical activity into muscular effort. , 2012, 2012, 2513-6.		0
332	Decoding with limited neural data: a mixture of time-warped trajectory models for directional reaches. Journal of Neural Engineering, 2012, 9, 036002.	3.5	22

#	Article	IF	Citations
333	An online brain–machine interface using decoding of movement direction from the human electrocorticogram. Journal of Neural Engineering, 2012, 9, 046003.	3.5	56
334	Movement-related neuromagnetic fields and performances of single trial classifications. NeuroReport, 2012, 23, 16-20.	1.2	13
335	Acquiring Brain Signals from within the Brain. , 2012, , 81-103.		5
336	BCI Signal Processing: Feature Extraction. , 2012, , 124-145.		6
337	BCIs That Use Electrocorticographic Activity. , 2012, , 252-264.		2
338	BCIs That Use Signals Recorded in Motor Cortex. , 2012, , 266-288.		0
339	Brain-Machine Interfaces for Motor Control: A Guide for Neuroscience Clinicians. Canadian Journal of Neurological Sciences, 2012, 39, 11-22.	0.5	6
340	A high-performance neural prosthesis enabled by control algorithm design. Nature Neuroscience, 2012, 15, 1752-1757.	14.8	454
341	Control strategies of an assistive robot using a Brain-Machine Interface. , 2012, , .		11
342	Biophysics of microchannel-enabled neuron–electrode interfaces. Journal of Neural Engineering, 2012, 9, 026010.	3.5	42
343	MINDWALKER: Going one step further with assistive lower limbs exoskeleton for SCI condition subjects. , 2012, , .		36
344	Current Challenges to the Clinical Translation of Brain Machine Interface Technology. International Review of Neurobiology, 2012, 107, 137-160.	2.0	16
345	Neural interfaces for the brain and spinal cord—restoring motor function. Nature Reviews Neurology, 2012, 8, 690-699.	10.1	213
346	Compensating for delays in brain-machine interfaces by decoding intended future movement. , 2012, 2012, 4087-90.		3
347	Control of a biomimetic brain machine interface with local field potentials: Performance and stability of a static decoder over 200 days. , 2012, 2012, 6719-22.		10
348	Using ipsilateral motor signals in the unaffected cerebral hemisphere as a signal platform for brain–computer interfaces in hemiplegic stroke survivors. Journal of Neural Engineering, 2012, 9, 036011.	3.5	47
349	Behavioral and neural correlates of visuomotor adaptation observed through a brain-computer interface in primary motor cortex. Journal of Neurophysiology, 2012, 108, 624-644.	1.8	106
350	How many neurons can we see with current spike sorting algorithms?. Journal of Neuroscience Methods, 2012, 211, 58-65.	2.5	105

#	Article	IF	Citations
351	The Brain-Computer Interface. World Neurosurgery, 2012, 78, 573-575.	1.3	2
352	Advances in Upper Extremity Prosthetics. Hand Clinics, 2012, 28, 587-593.	1.0	42
353	Imagined tool-use in near and far space modulates the extra-striate body area. Neuropsychologia, 2012, 50, 2467-2476.	1.6	25
354	Brain-Computer Interfaces in Medicine. Mayo Clinic Proceedings, 2012, 87, 268-279.	3.0	515
355	Interactions Between Tactile and Proprioceptive Representations in Haptics. Journal of Motor Behavior, 2012, 44, 391-401.	0.9	9
356	Prediction of Imagined Single-Joint Movements in a Person With High-Level Tetraplegia. IEEE Transactions on Biomedical Engineering, 2012, 59, 2755-2765.	4.2	39
357	Robotic reactive motion with jerk reduction. , 2012, , .		3
358	The effect of automatic simple thresholding for spike detection from multi-unit recordings on the classification of hitting task in rats. , 2012, , .		0
359	Decoding Dexterous Finger Movements in a Neural Prosthesis Model Approaching Real-World Conditions. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2012, 20, 836-844.	4.9	6
360	Motor Disability Assistance Based on Novel Noninvasive Electroencephalographic Decoding. , 2012, , .		1
361	Brainâ€"Machine Interfaces: Basis and Advances. IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews, 2012, 42, 825-836.	2.9	32
362	Neural population partitioning and a concurrent brain-machine interface for sequential motor function. Nature Neuroscience, 2012, 15, 1715-1722.	14.8	85
363	Interfacing the Somatosensory System to Restore Touch and Proprioception: Essential Considerations. Journal of Motor Behavior, 2012, 44, 403-418.	0.9	93
364	Materials for neural interfaces. MRS Bulletin, 2012, 37, 557-561.	3.5	29
365	Balancing a simulated inverted pendulum through motor imagery: An EEG-based real-time control paradigm. Neuroscience Letters, 2012, 524, 95-100.	2.1	20
366	Neural decoding of unilateral upper limb movements using single trial MEG signals. Brain Research, 2012, 1468, 29-37.	2.2	23
367	Continuous decoding of grasping tasks for a prospective implantable cortical neuroprosthesis. Journal of NeuroEngineering and Rehabilitation, 2012, 9, 84.	4.6	9
368	Closed-Loop Decoder Adaptation on Intermediate Time-Scales Facilitates Rapid BMI Performance Improvements Independent of Decoder Initialization Conditions. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2012, 20, 468-477.	4.9	141

#	Article	IF	Citations
369	Electroencephalography (EEG)-Based Brain–Computer Interface (BCI): A 2-D Virtual Wheelchair Control Based on Event-Related Desynchronization/Synchronization and State Control. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2012, 20, 379-388.	4.9	204
370	Layered Nanocomposites from Gold Nanoparticles for Neural Prosthetic Devices. Nano Letters, 2012, 12, 3391-3398.	9.1	73
371	Sparse decoding of multiple spike trains for brain–machine interfaces. Journal of Neural Engineering, 2012, 9, 054001.	3.5	11
372	Mechanically adaptive nanocomposites for neural interfacing. MRS Bulletin, 2012, 37, 581-589.	3.5	91
373	Decoding of finger, hand and arm kinematics using switching linear dynamical systems with pre-motor cortical ensembles. , 2012, 2012, 1732-5.		2
374	Nonhuman Primate Models of the Motor System. , 2012, , 783-794.		0
375	Real-time decoding of the direction of covert visuospatial attention. Journal of Neural Engineering, 2012, 9, 045004.	3.5	30
376	Decoding natural grasp types from human ECoG. NeuroImage, 2012, 59, 248-260.	4.2	236
377	MULTICHANNEL DECODING FOR PHASE-CODED SSVEP BRAIN–COMPUTER INTERFACE. International Journal of Neural Systems, 2012, 22, 1250022.	5.2	34
378	Electrocorticographic (ECoG) correlates of human arm movements. Experimental Brain Research, 2012, 223, 1-10.	1.5	41
379	A new feature extraction method for signal classification applied to cord dorsum potential detection. Journal of Neural Engineering, 2012, 9, 056009.	3.5	3
380	Comprehensive characterization and failure modes of tungsten microwire arrays in chronic neural implants. Journal of Neural Engineering, 2012, 9, 056015.	3.5	254
381	Network, Cellular, and Molecular Mechanisms Underlying Long-Term Memory Formation. Current Topics in Behavioral Neurosciences, 2012, 15, 73-115.	1.7	11
382	Accurate decoding of reaching movements from field potentials in the absence of spikes. Journal of Neural Engineering, 2012, 9, 046006.	3.5	182
383	The relationship between psychological capacities and neurobiological activities. European Journal for Philosophy of Science, 2012, 2, 453-480.	1.1	3
384	Prediction of Muscle Activities from Electrocorticograms in Primary Motor Cortex of Primates. PLoS ONE, 2012, 7, e47992.	2.5	58
385	fNIRS Exhibits Weak Tuning to Hand Movement Direction. PLoS ONE, 2012, 7, e49266.	2.5	16
386	Decoding Hindlimb Movement for a Brain Machine Interface after a Complete Spinal Transection. PLoS ONE, 2012, 7, e52173.	2.5	33

#	ARTICLE	IF	CITATIONS
387	Reprogramming movements: extraction of motor intentions from cortical ensemble activity when movement goals change. Frontiers in Neuroengineering, 2012, 5, 16.	4.8	21
388	Neural activation differences in amputees during imitation of intact versus amputee movements. Frontiers in Human Neuroscience, 2012, 6, 182.	2.0	15
389	Review of the BCI Competition IV. Frontiers in Neuroscience, 2012, 6, 55.	2.8	686
390	Neuroenhancement - A Controversial Topic in Contemporary Medical Ethics. , 2012, , .		5
391	Identifying the Building Blocks of a Human Walking based on the EMG Ratio of Agonist-antagonsit Muscle Pairs. Journal of the Robotics Society of Japan, 2012, 30, 524-533.	0.1	0
393	Reach and grasp by people with tetraplegia using a neurally controlled robotic arm. Nature, 2012, 485, 372-375.	27.8	2,186
394	Brain Computer Interfaces, a Review. Sensors, 2012, 12, 1211-1279.	3.8	1,588
395	Local field potentials allow accurate decoding of muscle activity. Journal of Neurophysiology, 2012, 108, 18-24.	1.8	77
396	Electrocorticographic control of a prosthetic arm in paralyzed patients. Annals of Neurology, 2012, 71, 353-361.	5.3	220
397	Development of an invasive brain-machine interface with a monkey model. Science Bulletin, 2012, 57, 2036-2045.	1.7	18
398	How to demarcate the boundaries of cognition. Biology and Philosophy, 2012, 27, 545-570.	1.4	82
399	The upregulation of specific interleukin (IL) receptor antagonists and paradoxical enhancement of neuronal apoptosis due to electrode induced strain and brain micromotion. Biomaterials, 2012, 33, 5983-5996.	11.4	92
400	Reduce impedance of intracortical iridium oxide microelectrodes by hydrogel coatings. Sensors and Actuators B: Chemical, 2012, 161, 198-202.	7.8	30
401	An overview of the Internet of Things for people with disabilities. Journal of Network and Computer Applications, 2012, 35, 584-596.	9.1	531
402	Understanding neuronal systems in movement control using Wiener/Volterra kernels: A dominant feature analysis. Journal of Neuroscience Methods, 2012, 203, 220-232.	2.5	5
403	NeuroQuest: A comprehensive analysis tool for extracellular neural ensemble recordings. Journal of Neuroscience Methods, 2012, 204, 189-201.	2.5	20
404	Feasibility of approaches combining sensor and source features in brain–computer interface. Journal of Neuroscience Methods, 2012, 204, 168-178.	2.5	26
405	EMG Prediction From Motor Cortical Recordings via a Nonnegative Point-Process Filter. IEEE Transactions on Biomedical Engineering, 2012, 59, 1829-1838.	4.2	21

#	Article	IF	Citations
406	Ideomotor silence: the case of complete paralysis and brain–computer interfaces (BCI). Psychological Research, 2012, 76, 183-191.	1.7	41
407	Detection of motor execution using a hybrid fNIRS-biosignal BCI: a feasibility study. Journal of NeuroEngineering and Rehabilitation, 2013, 10, 4.	4.6	65
408	Simultaneous reconstruction of continuous hand movements from primary motor and posterior parietal cortex. Experimental Brain Research, 2013, 225, 361-375.	1.5	12
409	Sensors and Decoding for Intracortical Brain Computer Interfaces. Annual Review of Biomedical Engineering, 2013, 15, 383-405.	12.3	110
410	Braided multi-electrode probes: mechanical compliance characteristics and recordings from spinal cords. Journal of Neural Engineering, 2013, 10, 045001.	3.5	34
411	On initial Brain Activity Mapping of episodic and semantic memory code in the hippocampus. Neurobiology of Learning and Memory, 2013, 105, 200-210.	1.9	22
412	Brain-Computer Interface Research. Springer Briefs in Electrical and Computer Engineering, 2013, , .	0.5	12
413	Brain–machine interface in chronic stroke rehabilitation: A controlled study. Annals of Neurology, 2013, 74, 100-108.	5.3	754
414	A flexible polyimide cable for implantable neural probe arrays. Microsystem Technologies, 2013, 19, 1111-1118.	2.0	11
415	A 75-ÂµW, 16-Channel Neural Spike-Sorting Processor With Unsupervised Clustering. IEEE Journal of Solid-State Circuits, 2013, 48, 2230-2238.	5.4	105
416	Long term, stable brain machine interface performance using local field potentials and multiunit spikes. Journal of Neural Engineering, 2013, 10, 056005.	3.5	167
417	Real-time control of walking using recordings from dorsal root ganglia. Journal of Neural Engineering, 2013, 10, 056008.	3.5	59
418	Retinal Metric: A Stimulus Distance Measure Derived from Population Neural Responses. Physical Review Letters, 2013, 110, 058104.	7.8	12
419	A Primer on Brain–Machine Interfaces, Concepts, and Technology: A Key Element in the Future of Functional Neurorestoration. World Neurosurgery, 2013, 79, 457-471.	1.3	48
420	Detection of movement-related cortical potentials based on subject-independent training. Medical and Biological Engineering and Computing, 2013, 51, 507-512.	2.8	75
421	On brain activity mapping: insights and lessons from Brain Decoding Project to map memory patterns in the hippocampus. Science China Life Sciences, 2013, 56, 767-779.	4.9	4
422	Decoding grasp movement from monkey premotor cortex for real-time prosthetic hand control. Science Bulletin, 2013, 58, 2512-2520.	1.7	9
424	Bioelectrodes. , 2013, , 957-966.		0

#	ARTICLE	IF	CITATIONS
425	Feedback-Controlled Parallel Point Process Filter for Estimation of Goal-Directed Movements From Neural Signals. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2013, 21, 129-140.	4.9	48
426	A low-profile three-dimensional neural probe array using a silicon lead transfer structure. Journal of Micromechanics and Microengineering, 2013, 23, 095013.	2.6	13
427	Dr. Frankensteins Dream Made Possible Implanted Electronic Devices. , 2013, , .		22
428	A Brain-Machine Interface Enables Bimanual Arm Movements in Monkeys. Science Translational Medicine, 2013, 5, 210ra154.	12.4	140
429	Personalized Neuroprosthetics. Science Translational Medicine, 2013, 5, 210rv2.	12.4	141
430	Translating the Brain-Machine Interface. Science Translational Medicine, 2013, 5, 210ps17.	12.4	103
431	Development of an implantable wireless ECoG 128ch recording device for clinical brain machine interface. , 2013, 2013, 1867-70.		11
432	A Review of EEG-Based Brain-Computer Interfaces as Access Pathways for Individuals with Severe Disabilities. Assistive Technology, 2013, 25, 99-110.	2.0	122
433	Baptisms of fire or death knells for acute-slice physiology in the age of â€˜omicsâ€™ and light?. Reviews in the Neurosciences, 2013, 24, 527-36.	2.9	8
434	State-based decoding of hand and finger kinematics using neuronal ensemble and LFP activity during dexterous reach-to-grasp movements. Journal of Neurophysiology, 2013, 109, 3067-3081.	1.8	132
435	Resting state detection for gating movement of a neural prosthesis. , 2013, , .		4
436	Generalized virtual fixtures for shared-control grasping in brain-machine interfaces. , 2013, 2013, 323-328.		1
437	Linear decoding of 2D hand movements for target selection tasks using a non-invasive BCI system. , 2013, , .		5
438	Brain-actuated humanoid robot control using one class motor imagery task. , 2013, , .		2
439	Optimal feedback-controlled point process decoder for adaptation and assisted training in brain-machine interfaces. , 2013, , .		7
440	Mixing decoded cursor velocity and position from an offline Kalman filter improves cursor control in people with tetraplegia. , 2013, , .		8
441	Modeling and identification of the human arm stretch reflex using a realistic spiking neural network and musculoskeletal model. , 2013, , .		6
442	Observation-based calibration of brain-machine interfaces for grasping. , 2013, , .		3

#	ARTICLE	IF	CITATIONS
443	Brain-machine interface control using broadband spectral power from local field potentials. , 2013, 2013, 285-8.		7
444	Decoding three-dimensional arm movements for brain-machine interface. , 2013, , .		2
445	Passive robot assistance in arm movement decoding from EEG signals. , 2013, , .		4
446	Investigating the role of firing-rate normalization and dimensionality reduction in brain-machine interface robustness. , 2013, 2013, 293-8.		11
447	High-performance neuroprosthetic control by an individual with tetraplegia. Lancet, The, 2013, 381, 557-564.	13.7	1,550
448	Mechanisms of the Anatomically Correct Testbed Hand. IEEE/ASME Transactions on Mechatronics, 2013, 18, 238-250.	5.8	179
449	7T fMRI reveals feasibility of covert visual attention-based brain–computer interfacing with signals obtained solely from cortical grey matter accessible by subdural surface electrodes. Clinical Neurophysiology, 2013, 124, 2191-2197.	1.5	6
450	Probabilistic co-adaptive brain–computer interfacing. Journal of Neural Engineering, 2013, 10, 066008.	3.5	26
451	Design and validation of a real-time spiking-neural-network decoder for brain–machine interfaces. Journal of Neural Engineering, 2013, 10, 036008.	3.5	53
452	Ethical considerations for engineers working in cybernetic implants. , 2013, , .		1
453	Improving brain–machine interface performance by decoding intended future movements. Journal of Neural Engineering, 2013, 10, 026011.	3.5	40
454	An implantable wireless neural interface for recording cortical circuit dynamics in moving primates. Journal of Neural Engineering, 2013, 10, 026010.	3.5	267
455	Population codes in the visual cortex. Neuroscience Research, 2013, 76, 101-105.	1.9	5
456	Ethical and social issues behind brain-computer interface. , 2013, , .		3
457	Brain–Computer Interfaces. , 2013, , 87-151.		78
458	Design and Analysis of Closed-Loop Decoder Adaptation Algorithms for Brain-Machine Interfaces. Neural Computation, 2013, 25, 1693-1731.	2.2	80
459	Extending, changing, and explaining the brain. Biology and Philosophy, 2013, 28, 613-638.	1.4	5
460	Toward High Performance, Weakly Invasive Brain Computer Interfaces Using Selective Visual Attention. Journal of Neuroscience, 2013, 33, 6001-6011.	3.6	23

#	Article	IF	Citations
461	Controlled delivery for neuro-bionic devices. Advanced Drug Delivery Reviews, 2013, 65, 559-569.	13.7	51
462	Feedback and feedforward adaptation to visuomotor delay during reaching and slicing movements. European Journal of Neuroscience, 2013, 38, 2108-2123.	2.6	40
463	â€œMasterâ€•Neurons Induced by Operant Conditioning in Rat Motor Cortex during a Brain-Machine Interface Task. Journal of Neuroscience, 2013, 33, 8308-8320.	3.6	46
464	Decoding Algorithms for Brainâ€"Machine Interfaces. , 2013, , 223-257.		4
465	Performance of Motor Imagery Brain-Computer Interface Based on Anodal Transcranial Direct Current Stimulation Modulation. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2013, 21, 404-415.	4.9	61
466	An Artificial Neural Network Based Robot Controller that Uses Ratâ€™s Brain Signals. Robotics, 2013, 2, 54-65.	3.5	10
467	Non-Invasive Brain-to-Brain Interface (BBI): Establishing Functional Links between Two Brains. PLoS ONE, 2013, 8, e60410.	2.5	88
468	Population Coding and the Labeling Problem: Extrinsic Versus Intrinsic Representations. Neural Computation, 2013, 25, 2235-2264.	2.2	19
469	Behavioral Demonstration of a Somatosensory Neuroprosthesis. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2013, 21, 500-507.	4.9	108
470	Predictions not commands: active inference in the motor system. Brain Structure and Function, 2013, 218, 611-643.	2.3	557
471	New horizons in brain-computer interface research. Clinical Neurophysiology, 2013, 124, 2-4.	1.5	16
472	Towards autonomous neuroprosthetic control using Hebbian reinforcement learning. Journal of Neural Engineering, 2013, 10, 066005.	3.5	34
473	The Convergence of Machine and Biological Intelligence. IEEE Intelligent Systems, 2013, 28, 28-43.	4.0	26
474	Neural decoding of movement targets by unsorted spike trains. , 2013, , .		0
476	Real-Time Evaluation of a Noninvasive Neuroprosthetic Interface for Control of Reach. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2013, 21, 674-683.	4.9	29
477	A hybrid BCI for enhanced control of a telepresence robot. , 2013, 2013, 3097-100.		24
478	Advantages of closed-loop calibration in intracortical brainâ€"computer interfaces for people with tetraplegia. Journal of Neural Engineering, 2013, 10, 046012.	3.5	83
480	Quadcopter control in three-dimensional space using a noninvasive motor imagery-based brainâ€"computer interface. Journal of Neural Engineering, 2013, 10, 046003.	3.5	452

#	ARTICLE	IF	CITATIONS
481	Brain-computer interface: a thought translation device turning fantasy into reality. International Journal of Biomedical Engineering and Technology, 2013, 11, 197.	0.2	10
482	Neuroprosthetic technology for individuals with spinal cord injury. Journal of Spinal Cord Medicine, 2013, 36, 258-272.	1.4	64
483	Myoelectric transradial prosthesis prototype with intuitive single-grasp capability. , 2013, , .		0
485	Advances in Neuroprosthetic Learning and Control. PLoS Biology, 2013, 11, e1001561.	5.6	104
486	What We Think before a Voluntary Movement. Journal of Cognitive Neuroscience, 2013, 25, 822-829.	2.3	20
487	A Multi-Step Neural Control for Motor Brain-Machine Interface by Reinforcement Learning. Applied Mechanics and Materials, 2013, 461, 565-569.	0.2	3
488	Neurology and the military. Neurology: Clinical Practice, 2013, 3, 30-38.	1.6	6
489	Functional priorities, assistive technology, and brain-computer interfaces after spinal cord injury. Journal of Rehabilitation Research and Development, 2013, 50, 145.	1.6	197
490	An Implantable Neural Sensing Microsystem with Fiber-Optic Data Transmission and Power Delivery. Sensors, 2013, 13, 6014-6031.	3.8	31
491	A 100-Channel Hermetically Sealed Implantable Device for Chronic Wireless Neurosensing Applications. IEEE Transactions on Biomedical Circuits and Systems, 2013, 7, 115-128.	4.0	134
492	WIMAGINE: an implantable electronic platform for wireless 64-channel ECoG recording. Proceedings of SPIE, 2013, , .	0.8	0
493	THE ZURICH ENVIRONMENTAL STUDY OF GALAXIES IN GROUPS ALONG THE COSMIC WEB. I. WHICH ENVIRONMENT AFFECTS GALAXY EVOLUTION?. Astrophysical Journal, 2013, 776, 71.	4.5	50
494	Silicon-Based Multichannel Probe Integrated with a Front End Low Power Neural Recording IC for Acute Neural Recording. Advanced Materials Research, 2013, 849, 189-194.	0.3	0
495	Biomimetic and Biohybrid Systems. Lecture Notes in Computer Science, 2013, , .	1.3	7
496	ENG-Based Signal Processing and Neural Decoding Algorithms for Rehabilitative Prostheses Control. , 2013, , .		1
497	Progress toward a high-performance neural prosthetic. , 2013, , .		1
498	A stabilized dual Kalman filter for adaptive tracking of brain-computer interface decoding parameters. , 2013, 2013, 7100-3.		8
499	Real-time movement prediction for improved control of neuroprosthetic devices. , 2013, , .		22

#	ARTICLE	IF	CITATIONS
500	A fiber optic multi-channel neural recording system for freely moving rats. , 2013, , .		0
501	Design optimisation of front-end neural interfaces for spike sorting systems. , 2013, , .		7
502	A pre-clinical framework for neural control of a therapeutic upper-limb exoskeleton. , 2013, , 1159-1162.		8
503	Feature extraction and unsupervised classification of neural population reward signals for reinforcement based BMI. , 2013, 2013, 5250-3.		6
504	Online adaptive decoding of intended movements with a hybrid kinetic and kinematic brain machine interface. , 2013, 2013, 1583-6.		4
505	Determination of optimal frequency ranges using common spatial pattern images. , 2013, , .		0
506	Neural representation and identification of reaching targets by spike trains in motor cortex. , 2013, , .		0
507	Brainâ€"machine interface. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 18343-18343.	7.1	18
508	Estimation of the velocity and trajectory of three-dimensional reaching movements from non-invasive magnetoencephalography signals. Journal of Neural Engineering, 2013, 10, 026006.	3.5	59
509	Differentiating closed-loop cortical intention from rest: building an asynchronous electrocorticographic BCI. Journal of Neural Engineering, 2013, 10, 046001.	3.5	36
510	Fabrication of Polymer Microneedle Electrodes Coated with Nanoporous Parylene. Japanese Journal of Applied Physics, 2013, 52, 06GL10.	1.5	26
512	Intra-day signal instabilities affect decoding performance in an intracortical neural interface system. Journal of Neural Engineering, 2013, 10, 036004.	3.5	180
513	Interfaces with the Peripheral Nerve for the Control of Neuroprostheses. International Review of Neurobiology, 2013, 109, 63-83.	2.0	77
514	Dynamic Analysis of Naive Adaptive Brain-Machine Interfaces. Neural Computation, 2013, 25, 2373-2420.	2.2	15
517	Innovations in Prosthetic Interfaces for the Upper Extremity. Plastic and Reconstructive Surgery, 2013, 132, 1515-1523.	1.4	56
518	Functional Restoration through Robotics. , 2013, , .		0
519	The Chemistry of Cyborgsâ€"Interfacing Technical Devices with Organisms. Angewandte Chemie - International Edition, 2013, 52, 13942-13957.	13.8	35
521	Information Analysis on Neural Tuning in Dorsal Premotor Cortex for Reaching and Grasping. Computational and Mathematical Methods in Medicine, 2013, 2013, 1-9.	1.3	5

#	Article	IF	Citations
522	Social Robots, Brain Machine Interfaces and Neuro/Cognitive Enhancers: Three Emerging Science and Technology Products through the Lens of Technology Acceptance Theories, Models and Frameworks. Technologies, 2013, 1, 3-25.	5.1	11
523	Towards a Naturalistic Brain-Machine Interface: Hybrid Torque and Position Control Allows Generalization to Novel Dynamics. PLoS ONE, 2013, 8, e52286.	2.5	27
524	Detection of Error Related Neuronal Responses Recorded by Electrocorticography in Humans during Continuous Movements. PLoS ONE, 2013, 8, e55235.	2.5	48
525	An Electrocorticographic Brain Interface in an Individual with Tetraplegia. PLoS ONE, 2013, 8, e55344.	2.5	319
526	Recursive N-Way Partial Least Squares for Brain-Computer Interface. PLoS ONE, 2013, 8, e69962.	2.5	28
527	Prediction of Three-Dimensional Arm Trajectories Based on ECoG Signals Recorded from Human Sensorimotor Cortex. PLoS ONE, 2013, 8, e72085.	2.5	88
528	Prediction of Hand Trajectory from Electrocorticography Signals in Primary Motor Cortex. PLoS ONE, 2013, 8, e83534.	2.5	37
529	Towards a circuit mechanism for movement tuning in motor cortex. Frontiers in Neural Circuits, 2012, 6, 127.	2.8	10
530	Motor directional tuning across brain areas: directional resonance and the role of inhibition for directional accuracy. Frontiers in Neural Circuits, 2013, 7, 92.	2.8	45
531	Creating new functional circuits for action via brain-machine interfaces. Frontiers in Computational Neuroscience, 2013, 7, 157.	2.1	39
532	Who Needs to Fit in? Who Gets to Stand out? Communication Technologies Including Brain-Machine Interfaces Revealed from the Perspectives of Special Education School Teachers Through an Ableism Lens. Education Sciences, 2013, 3, 30-49.	2.6	14
533	Controlling Assistive Machines in Paralysis Using Brain Waves and Other Biosignals. Advances in Human-Computer Interaction, 2013, 2013, 1-9.	2.8	17
534	Scale-Invariant Neuronal Avalanche Dynamics and the Cut-Off in Size Distributions. PLoS ONE, 2014, 9, e99761.	2.5	52
535	High-Accuracy Brain-Machine Interfaces Using Feedback Information. PLoS ONE, 2014, 9, e103539.	2.5	11
536	A Supplementary System for a Brain-Machine Interface Based on Jaw Artifacts for the Bidimensional Control of a Robotic Arm. PLoS ONE, 2014, 9, e112352.	2.5	12
537	Nonlinear EEG Decoding Based on a Particle Filter Model. BioMed Research International, 2014, 2014, 1-13.	1.9	9
538	Signal-independent timescale analysis (SITA) and its application for neural coding during reaching and walking. Frontiers in Computational Neuroscience, 2014, 8, 91.	2.1	2
539	Bio-inspired hybrid microelectrodes: a hybrid solution to improve long-term performance of chronic intracortical implants. Frontiers in Neuroengineering, 2014, 7, 7.	4.8	39

#	Article	IF	Citations
540	Tracking single units in chronic, large scale, neural recordings for brain machine interface applications. Frontiers in Neuroengineering, 2014, 7, 23.	4.8	17
541	The experience of agency in human-computer interactions: a review. Frontiers in Human Neuroscience, 2014, 8, 643.	2.0	121
542	Closed-loop control of spinal cord stimulation to restore hand function after paralysis. Frontiers in Neuroscience, 2014, 8, 87.	2.8	81
543	Decoding of the spike timing of primary afferents during voluntary arm movements in monkeys. Frontiers in Neuroscience, 2014, 8, 97.	2.8	7
544	A functional model and simulation of spinal motor pools and intrafascicular recordings of motoneuron activity in peripheral nerve. Frontiers in Neuroscience, 2014, 8, 371.	2.8	3
545	Brain-machine interface to control a prosthetic arm with monkey ECoGs during periodic movements. Frontiers in Neuroscience, 2014, 8, 417.	2.8	17
546	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
547	Minds, motherboards, and money: futurism and realism in the neuroethics of BCI technologies. Frontiers in Systems Neuroscience, 2014, 8, 86.	2.5	36
548	How to read neuron-dropping curves?. Frontiers in Systems Neuroscience, 2014, 8, 102.	2.5	21
549	Augmentation-related brain plasticity. Frontiers in Systems Neuroscience, 2014, 8, 109.	2.5	65
550	Selective visual attention to drive cognitive brainâ¬â€œmachine interfaces: from concepts to neurofeedback and rehabilitation applications. Frontiers in Systems Neuroscience, 2014, 8, 144.	2.5	54
551	Introduction and Testing of an Alternative Control Approach for a Robotic Prosthetic Arm. Open Biomedical Engineering Journal, 2014, 8, 93-105.	0.5	4
553	Brain responses to neural prostheses. , 0, , 554-564.		1
554	Brainâ€"computer interfaces. , 2014, , 565-576.		2
555	Intracranialbrainâ€"computer interfaces for communication and control. , 2014, , 577-585.		3
556	Comparing temporal aspects of visual, tactile, and microstimulation feedback for motor control. Journal of Neural Engineering, 2014, 11, 046025.	3.5	30
557	Stable and artifact-resistant decoding of 3D hand trajectories from ECoG signals using the generalized additive model. Journal of Neural Engineering, 2014, 11, 066005.	3.5	23
558	Neural correlates of the rubber hand illusion in amputees: A report of two cases. Neurocase, 2014, 20, 407-420.	0.6	48

#	ARTICLE	IF	CITATIONS
559	On the asynchronously continuous control of mobile robot movement by motor cortical spiking activity. , 2014, 2014, 3049-52.		4
560	Observation-based training for neuroprosthetic control of grasping by amputees. , 2014, 2014, 3989-92.		4
561	Self-recalibrating classifiers for intracortical brain–computer interfaces. Journal of Neural Engineering, 2014, 11, 026001.	3.5	51
562	c-Fos immunoreactivity and variation of neuronal units in rat's motor cortex after chronic implants. , 2014, , .		1
563	Review on tactile sensory feedback of prosthetic hands for the upper-limb amputees by sensory afferent stimulation. Journal of Shanghai Jiaotong University (Science), 2014, 19, 587-591.	0.9	7
564	Parietal neural prosthetic control of a computer cursor in a graphical-user-interface task. Journal of Neural Engineering, 2014, 11, 066014.	3.5	5
566	Abidirectional brain-computer interface for effective epilepsy control. Journal of Zhejiang University: Science C, 2014, 15, 839-847.	0.7	5
567	Long-term reliability of Al_2O_3 and Parylene C bilayer encapsulated Utah electrode array based neural interfaces for chronic implantation. Journal of Neural Engineering, 2014, 11, 026016.	3.5	99
568	High-performance brain-machine interface enabled by an adaptive optimal feedback-controlled point process decoder. , 2014, 2014, 6493-6.		16
569	Simultaneous real-time monitoring of multiple cortical systems. Journal of Neural Engineering, 2014, 11, 056001.	3.5	3
570	Neural Decoding Using a Parallel Sequential Monte Carlo Method on Point Processes with Ensemble Effect. BioMed Research International, 2014, 2014, 1-11.	1.9	14
571	Wearable and Non-Invasive Assistive Technologies. , 2014, , 563-590.		3
572	Using Reinforcement Learning to Provide Stable Brain-Machine Interface Control Despite Neural Input Reorganization. PLoS ONE, 2014, 9, e87253.	2.5	65
573	Towards Effective Non-Invasive Brain-Computer Interfaces Dedicated to Gait Rehabilitation Systems. Brain Sciences, 2014, 4, 1-48.	2.3	38
574	Neural Coding for Effective Rehabilitation. BioMed Research International, 2014, 2014, 1-17.	1.9	2
575	A Passive Upper Limb Exoskeleton for Macaques in a BMI Study: Kinematic Design, Analysis, and Calibration. , 2014, , .		1
576	Brainware: synergizing software systems and neural inputs. , 2014, , .		9
577	A Tensor-Product-Kernel Framework for Multiscale Neural Activity Decoding and Control. Computational Intelligence and Neuroscience, 2014, 2014, 1-16.	1.7	12

#	Article	IF	Citations
578	Generalizability of EMG decoding using local field potentials. , 2014, 2014, 1630-3.		5
579	Assessing vibrotactile feedback strategies by controlling a cursor with unstable dynamics. , 2014, 2014, 2589-92.		2
580	Cell categories and k-nearest neighbor algorithm based decoding of primary motor cortical activity during reach-to-grasp task. , 2014, 2014, 2322-5.		0
581	Decoding the non-stationary neuron spike trains by dual Monte Carlo point process estimation in motor Brain Machine Interfaces. , 2014, 2014, 6513-6.		1
582	Brainâ€"machine interface for eye movements. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 17630-17635.	7.1	14
583	Combining Decoder Design and Neural Adaptation in Brain-Machine Interfaces. Neuron, 2014, 84, 665-680.	8.1	144
584	Wireless Neurosensor for Full-Spectrum Electrophysiology Recordings during Free Behavior. Neuron, 2014, 84, 1170-1182.	8.1	200
585	Neural circuits and in vivo monitoring using diamond. , 2014, , 291-304.		1
586	Toward a Unified Framework for EMG Signals Processing and Controlling an Exoskeleton. , 2014, , .		4
587	Experimental design and signal selection for construction of a robot control system based on EEG signals. Robotics and Biomimetics, 2014, 1, .	1.7	3
588	Neuroprosthetic limb control with electrocorticography: Approaches and challenges. , 2014, 2014, 5212-5.		2
589	An integrated neuro-robotic interface for stroke rehabilitation using the NASA X1 powered lower limb exoskeleton. , 2014, 2014, 3985-8.		30
590	The development of polymer laser-active media with improved performances. Journal of Physics: Conference Series, 2014, 560, 012017.	0.4	0
591	Brain-Machine Interfaces. , 2014, , 1343-1352.		1
592	Brain computer interface based functional electrical stimulation: An outline. , 2014, , .		3
593	A collaborative BCI approach to autonomous control of a prosthetic limb system. , 2014, , .		33
594	Robotics, Stem Cells, and Brain-Computer Interfaces in Rehabilitation and Recovery from Stroke. American Journal of Physical Medicine and Rehabilitation, 2014, 93, S145-S154.	1.4	12
595	Ethograms indicate stable well-being during prolonged training phases in rhesus monkeys used in neurophysiological research. Laboratory Animals, 2014, 48, 82-87.	1.0	8

#	Article	IF	Citations
596	Development of an Anatomically Correct Testbed (ACT) Hand. Springer Tracts in Advanced Robotics, 2014, , 453-475.	0.4	2
597	Designing Dynamical Properties of Brainâ€"Machine Interfaces to Optimize Task-Specific Performance. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2014, 22, 911-920.	4.9	28
598	Predicting hand orientation in reach-to-grasp tasks using neural activities from primary motor cortex. , 2014, 2014, 1306-9.		4
600	Infrared neural stimulation of primary visual cortex in non-human primates. NeuroImage, 2014, 84, 181-190.	4.2	121
601	Development of Upper Limb Prostheses: Current Progress and Areas for Growth. Archives of Physical Medicine and Rehabilitation, 2014, 95, 1013-1014.	0.9	16
602	Decoding grasp force profile from electrocorticography signals in non-human primate sensorimotor cortex. Neuroscience Research, 2014, 83, 1-7.	1.9	36
603	A Sensorized Garment Controlled Virtual Robotic Wheelchair. Journal of Intelligent and Robotic Systems: Theory and Applications, 2014, 74, 847-868.	3.4	13
604	Survey of encoding and decoding of visual stimulus via FMRI: an image analysis perspective. Brain Imaging and Behavior, 2014, 8, 7-23.	2.1	35
605	Cognitive-motor brainâ€"machine interfaces. Journal of Physiology (Paris), 2014, 108, 38-44.	2.1	30
606	A Review of Organic and Inorganic Biomaterials for Neural Interfaces. Advanced Materials, 2014, 26, 1846-1885.	21.0	456
607	A corticalâ€"spinal prosthesis for targeted limb movement in paralysed primate avatars. Nature Communications, 2014, 5, 3237.	12.8	42
608	A reductionist approach to the analysis of learning in brainâ€"computer interfaces. Biological Cybernetics, 2014, 108, 183-201.	1.3	7
609	Habit learning and brainâ€"machine interfaces (BMI): a tribute to Valentino Braitenbergâ€™s â€œVehiclesâ€. Biological Cybernetics, 2014, 108, 595-601.	1.3	2
610	Brain-machine interfaces: an overview. Translational Neuroscience, 2014, 5, .	1.4	64
611	Motor Cortical Correlates of Arm Resting in the Context of a Reaching Task and Implications for Prosthetic Control. Journal of Neuroscience, 2014, 34, 6011-6022.	3.6	50
612	The Human Hand as an Inspiration for Robot Hand Development. Springer Tracts in Advanced Robotics, 2014, , .	0.4	47
613	Adaptive Offset Correction for Intracortical Brainâ€"Computer Interfaces. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2014, 22, 239-248.	4.9	17
614	High aspect ratio gold nanopillars on microelectrodes for neural interfaces. Microsystem Technologies, 2014, 20, 1849-1857.	2.0	28

#	ARTICLE	IF	CITATIONS
615	A general method for assessing brain–computer interface performance and its limitations. Journal of Neural Engineering, 2014, 11, 026018.	3.5	16
616	Performance measurement for brain–computer or brain–machine interfaces: a tutorial. Journal of Neural Engineering, 2014, 11, 035001.	3.5	71
617	An Analogue Front-End Model for Developing Neural Spike Sorting Systems. IEEE Transactions on Biomedical Circuits and Systems, 2014, 8, 216-227.	4.0	48
618	Minimum requirements for accurate and efficient real-time on-chip spike sorting. Journal of Neuroscience Methods, 2014, 230, 51-64.	2.5	56
619	Improving the performance of poly(3,4-ethylenedioxythiophene) for brain–machine interface applications. Acta Biomaterialia, 2014, 10, 2446-2454.	8.3	63
620	Neural Computation, Neural Devices, and Neural Prosthesis. , 2014, , .		7
621	Corticospinal neuroprostheses to restore locomotion after spinal cord injury. Neuroscience Research, 2014, 78, 21-29.	1.9	47
622	Enhanced Low-Latency Detection of Motor Intention From EEG for Closed-Loop Brain-Computer Interface Applications. IEEE Transactions on Biomedical Engineering, 2014, 61, 288-296.	4.2	168
623	Brain–computer interfaces: a powerful tool for scientific inquiry. Current Opinion in Neurobiology, 2014, 25, 70-75.	4.2	40
624	Brain–machine interface control of a manipulator using small-world neural network and shared control strategy. Journal of Neuroscience Methods, 2014, 224, 26-38.	2.5	30
626	An Accurate, Versatile, and Robust Brain Switch for Neurorehabilitation. Springer Briefs in Electrical and Computer Engineering, 2014, , 47-61.	0.5	12
627	Collaborative Approach in the Development of High‐Performance Brain–Computer Interfaces for a Neuroprosthetic Arm: Translation from Animal Models to Human Control. Clinical and Translational Science, 2014, 7, 52-59.	3.1	55
628	Local field potentials mitigate decline in motor decoding performance caused by loss of spiking units. , 2014, 2014, 1298-301.		2
629	MEMS-based microelectrode technologies capable of penetrating neural tissues. Biomedical Engineering Letters, 2014, 4, 109-119.	4.1	5
630	Bioactive agarose carbon‐nanotube composites are capable of manipulating brain–implant interface. Journal of Applied Polymer Science, 2014, 131, .	2.6	16
631	A cognitive neuroprosthetic that uses cortical stimulation for somatosensory feedback. Journal of Neural Engineering, 2014, 11, 056024.	3.5	91
632	Motor cortical control of movement speed with implications for brain-machine interface control. Journal of Neurophysiology, 2014, 112, 411-429.	1.8	52
633	Long-term decoding stability of local field potentials from silicon arrays in primate motor cortex during a 2D center out task. Journal of Neural Engineering, 2014, 11, 036009.	3.5	55

#	Article	IF	Citations
634	Basic Neuroscience Research with Nonhuman Primates: A Small but Indispensable Component of Biomedical Research. Neuron, 2014, 82, 1200-1204.	8.1	148
635	A survey of brain computer interfaces and their applications. , 2014, , .		20
636	A high-performance brain-machine interface (BMI) using image information. , 2014, , .		0
638	To sort or not to sort: the impact of spike-sorting on neural decoding performance. Journal of Neural Engineering, 2014, 11, 056005.	3.5	94
639	Sorting and Tracking Neuronal Spikes via Simple Thresholding. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2014, 22, 858-869.	4.9	6
640	Neuroscience from a mathematical perspective: key concepts, scales and scaling hypothesis, universality. Biological Cybernetics, 2014, 108, 701-712.	1.3	10
642	Brainâ€"Computer Interface after Nervous System Injury. Neuroscientist, 2014, 20, 639-651.	3.5	94
643	Performance sustaining intracortical neural prostheses. Journal of Neural Engineering, 2014, 11, 066003.	3.5	58
644	Neural constraints on learning. Nature, 2014, 512, 423-426.	27.8	535
645	Rapid acquisition of novel interface control by small ensembles of arbitrarily selected primary motor cortex neurons. Journal of Neurophysiology, 2014, 112, 1528-1548.	1.8	31
646	Motor system evolution and the emergence of high cognitive functions. Progress in Neurobiology, 2014, 122, 73-93.	5.7	102
647	Restoring sensorimotor function through intracortical interfaces: progress and looming challenges. Nature Reviews Neuroscience, 2014, 15, 313-325.	10.2	304
648	Brain Implants for Substituting Lost Motor Function: State of the Art and Potential Impact on the Lives of Motor-Impaired Seniors. Gerontology, 2014, 60, 366-372.	2.8	6
649	Information Systems Opportunities in Brainâ€"Machine Interface Decoders. Proceedings of the IEEE, 2014, 102, 666-682.	21.3	79
650	Applications of Brainâ€"Machine Interface Systems in Stroke Recovery and Rehabilitation. Current Physical Medicine and Rehabilitation Reports, 2014, 2, 93-105.	0.8	67
651	Movement prediction with sensory feedback and environmental interaction. , 2014, , .		0
652	Toward More Versatile and Intuitive Cortical Brainâ€"Machine Interfaces. Current Biology, 2014, 24, R885-R897.	3.9	70
653	Continuous Closed-Loop Decoder Adaptation with a Recursive Maximum Likelihood Algorithm Allows for Rapid Performance Acquisition in Brain-Machine Interfaces. Neural Computation, 2014, 26, 1811-1839.	2.2	35

#	ARTICLE	IF	CITATIONS
654	The receptive field is dead. Long live the receptive field?. Current Opinion in Neurobiology, 2014, 25, ix-xii.	4.2	24
655	Closed-Loop Decoder Adaptation Shapes Neural Plasticity for Skillful Neuroprosthetic Control. Neuron, 2014, 82, 1380-1393.	8.1	216
656	Decoding fingertip trajectory from electrocorticographic signals in humans. Neuroscience Research, 2014, 85, 20-27.	1.9	51
657	Frankensteins Katze. , 2014, , .		1
658	Direct Brain Control and Communication in Paralysis. Brain Topography, 2014, 27, 4-11.	1.8	52
659	Muscle synergies evoked by microstimulation are preferentially encoded during behavior. Frontiers in Computational Neuroscience, 2014, 8, 20.	2.1	56
660	Bidirectional control of a one-dimensional robotic actuator by operant conditioning of a single unit in rat motor cortex. Frontiers in Neuroscience, 2014, 8, 206.	2.8	16
661	What limits the performance of current invasive brain machine interfaces?. Frontiers in Systems Neuroscience, 2014, 8, 68.	2.5	57
662	The Past and Future of Motor Learning and Control: What Is the Proper Level of Description and Analysis?. Kinesiology Review, 2014, 3, 38-43.	0.6	7
663	The development of EEG-based brain computer interfaces: potential and challenges. International Journal of Computer Applications in Technology, 2014, 50, 84.	0.5	8
664	Delivering key signals to the machine: seeking the electric signal that muscles emanate. Journal of Physics: Conference Series, 2014, 546, 012020.	0.4	1
665	Decoding knee angles from EEG signals for different walking speeds. , 2014, , .		5
666	Systems Neuroengineering: Understanding and Interacting with the Brain. Engineering, 2015, 1, 292-308.	6.7	30
667	Improving the brain machine interface via multiple Tetramethyl Orthosilicate sol-gel coatings on microelectrode arrays. , 2015, , .		2
668	ADVANCING CHRONIC INTRACORTICAL ELECTRODE RECORDING FUNCTION. , 2015, , 351-368.		0
669	Extracellular matrix-based intracortical microelectrodes: Toward a microfabricated neural interface based on naturalÂmaterials. Microsystems and Nanoengineering, 2015, 1, .	7.0	46
670	Traveling Waves in the Human EEG during Voluntary Hand Movements. Neuroscience and Behavioral Physiology, 2015, 45, 1043-1054.	0.4	3
671	Combining firing rate and spike-train synchrony features in the decoding of motor cortical activity. , 2015, 2015, 1091-4.		1

#	ARTICLE	IF	CITATIONS
672	Symptomatic therapy in multiple sclerosis: Big pharma should do more â€" NO. Multiple Sclerosis Journal, 2015, 21, 978-979.	3.0	1
673	A study on a robot arm driven by three-dimensional trajectories predicted from non-invasive neural signals. BioMedical Engineering OnLine, 2015, 14, 81.	2.7	28
674	2014 Joint Americas Committee for Treatment and Research in Multiple Sclerosisâ€"European Committee for Treatment and Research in Multiple Sclerosis Meeting. Clinical and Experimental Neuroimmunology, 2015, 6, 100-102.	1.0	0
675	Representation of continuous hand and arm movements in macaque areas M1, F5, and AIP: a comparative decoding study. Journal of Neural Engineering, 2015, 12, 056016.	3.5	25
676	Neural interfaces for somatosensory feedback. Current Opinion in Neurology, 2015, 28, 574-581.	3.6	90
678	Internal models for interpreting neural population activity during sensorimotor control. ELife, 2015, 4, .	6.0	41
679	Deafferented controllers: a fundamental failure mechanism in cortical neuroprosthetic systems. Frontiers in Behavioral Neuroscience, 2015, 9, 186.	2.0	4
680	Toward Building Hybrid Biological/in silico Neural Networks for Motor Neuroprosthetic Control. Frontiers in Neurorobotics, 2015, 9, 8.	2.8	25
681	Decoding of human hand actions to handle missing limbs in neuroprosthetics. Frontiers in Computational Neuroscience, 2015, 9, 27.	2.1	31
682	A Robot Hand Testbed Designed for Enhancing Embodiment and Functional Neurorehabilitation of Body Schema in Subjects with Upper Limb Impairment or Loss. Frontiers in Human Neuroscience, 2015, 9, 26.	2.0	26
683	Adaptation to elastic loads and BMI robot controls during rat locomotion examined with point-process GLMs. Frontiers in Systems Neuroscience, 2015, 9, 62.	2.5	5
684	Qualitative assessment of patientsâ€™ attitudes and expectations toward BCIs and implications for future technology development. Frontiers in Systems Neuroscience, 2015, 9, 64.	2.5	25
685	Advancing brain-machine interfaces: moving beyond linear state space models. Frontiers in Systems Neuroscience, 2015, 9, 108.	2.5	15
686	Visual Feedback Dominates the Sense of Agency for Brain-Machine Actions. PLoS ONE, 2015, 10, e0130019.	2.5	57
687	A Review of Techniques for Detection of Movement Intention Using Movement-Related Cortical Potentials. Computational and Mathematical Methods in Medicine, 2015, 2015, 1-13.	1.3	91
688	Optogenetic feedback control of neural activity. ELife, 2015, 4, e07192.	6.0	108
689	Motor Cortex. , 2015, , 965-970.		0
690	Application of multi-output support vector regression on EMGs to decode hand continuous movement trajectory. Bio-Medical Materials and Engineering, 2015, 26, S575-S582.	0.6	1

#	Article	IF	Citations
691	Towards Independence: A BCI Telepresence Robot for People With Severe Motor Disabilities. Proceedings of the IEEE, 2015, 103, 969-982.	21.3	150
692	A high performing brainâ€"machine interface driven by low-frequency local field potentials alone and together with spikes. Journal of Neural Engineering, 2015, 12, 036009.	3.5	110
693	A High-Performance Keyboard Neural Prosthesis Enabled by Task Optimization. IEEE Transactions on Biomedical Engineering, 2015, 62, 21-29.	4.2	51
694	Neuro-robotics Paradigm for Intelligent Assistive Technologies. Springer Tracts in Advanced Robotics, 2015, , 1-40.	0.4	4
695	Brain-Machine Interfaces for Assistive Robotics. Springer Tracts in Advanced Robotics, 2015, , 77-102.	0.4	1
696	Robust Neuroprosthetic Control from the Stroke Perilesional Cortex. Journal of Neuroscience, 2015, 35, 8653-8661.	3.6	55
697	Silicon Carbide Materials for Biomedical Applications. , 2015, , 153-207.		4
698	Direct Gold Plating Selectively on UV Modified Polymer Film Using Tiopronin-Gold. Journal of the Electrochemical Society, 2015, 162, D193-D198.	2.9	12
699	Leveraging historical knowledge of neural dynamics to rescue decoder performance as neural channels are lost: â€œDecoder hysteresisâ€. , 2015, 2015, 1061-6.		3
700	Prediction of switching time between movement preparation and execution by neural activity in monkey premotor cortex. , 2015, 2015, 2612-5.		0
701	On the Significance of Bodily Awareness for Bodily Action: Figure 1.. Philosophical Quarterly, 2015, 65, 790-812.	0.5	13
702	Encoderless position control of a two-link robot manipulator. , 2015, , .		12
703	Monte Carlo point process estimation of electromyographic envelopes from motor cortical spikes for brainâ€"machine interfaces. Journal of Neural Engineering, 2015, 12, 066014.	3.5	2
704	A principle of organization which facilitates broad Lamarckian-like adaptations by improvisation. Biology Direct, 2015, 10, 68.	4.6	41
705	A sensory feedback system for prosthetic hand based on evoked tactile sensation. , 2015, 2015, 2493-6.		14
706	Designing closed-loop brain-machine interfaces with network of spiking neurons using MPC strategy. , 2015, , .		2
707	Ten-dimensional anthropomorphic arm control in a human brainˆ'machine interface: difficulties, solutions, and limitations. Journal of Neural Engineering, 2015, 12, 016011.	3.5	385
708	Intracortical Recording Interfaces: Current Challenges to Chronic Recording Function. ACS Chemical Neuroscience, 2015, 6, 68-83.	3.5	77

#	Article	IF	Citations
709	Coding of movements in the motor cortex. Current Opinion in Neurobiology, 2015, 33, 34-39.	4.2	63
710	Motor cortex single-neuron and population contributions to compensation for multiple dynamic force fields. Journal of Neurophysiology, 2015, 113, 487-508.	1.8	6
711	Brainâ€"computer interface control along instructed paths. Journal of Neural Engineering, 2015, 12, 016015.	3.5	11
712	Decoding a Wide Range of Hand Configurations from Macaque Motor, Premotor, and Parietal Cortices. Journal of Neuroscience, 2015, 35, 1068-1081.	3.6	147
713	Electrical interfaces for recording, stimulation, and sensing. , 2015, , 13-38.		2
714	Local field potentials in primate motor cortex encode grasp kinetic parameters. NeuroImage, 2015, 114, 338-355.	4.2	57
715	Neuroengineering. , 2015, , 727-769.		0
716	Smart Sensors for Health and Environment Monitoring. KAIST Research Series, 2015, , .	1.5	7
717	What single-cell stimulation has told us about neural coding. Philosophical Transactions of the Royal Society B: Biological Sciences, 2015, 370, 20140204.	4.0	37
718	Cortical neuroprosthetics from a clinical perspective. Neurobiology of Disease, 2015, 83, 154-160.	4.4	14
719	Symptomatic therapy in multiple sclerosis: Big pharma should do moreâ€"YES. Multiple Sclerosis Journal, 2015, 21, 980-982.	3.0	0
720	Referent control of action and perception. , 2015, , .		114
722	Brain computer interface learning for systems based on electrocorticography and intracortical microelectrode arrays. Frontiers in Integrative Neuroscience, 2015, 9, 40.	2.1	38
723	Magnetoelectric composites forÂmedical application. , 2015, , 297-327.		12
724	Recent Advances on the Modular Organization of the Cortex. , 2015, , .		3
725	BCIs and physical medicine and rehabilitation: The future is now. Annals of Physical and Rehabilitation Medicine, 2015, 58, 1-2.	2.3	6
726	Restoring motor function with bidirectional neural interfaces. Progress in Brain Research, 2015, 218, 241-252.	1.4	32
727	Effect of bias voltage and temperature on lifetime of wireless neural interfaces with Al2O3 and parylene bilayer encapsulation. Biomedical Microdevices, 2015, 17, 1.	2.8	100

#	ARTICLE	IF	CITATIONS
728	Prediction of muscle activity during loaded movements of the upper limb. Journal of NeuroEngineering and Rehabilitation, 2015, 12, 6.	4.6	22
729	Toward an Autonomous Brain Machine Interface: Integrating Sensorimotor Reward Modulation and Reinforcement Learning. Journal of Neuroscience, 2015, 35, 7374-7387.	3.6	69
730	Neural Control of a Tracking Task via Attention-Gated Reinforcement Learning for Brain-Machine Interfaces. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2015, 23, 458-467.	4.9	39
731	Creating the brain and interacting with the brain: an integrated approach to understanding the brain. Journal of the Royal Society Interface, 2015, 12, 20141250.	3.4	8
732	Visual Guidance in Control of Grasping. Annual Review of Neuroscience, 2015, 38, 69-86.	10.7	61
734	Brain-controlled neuromuscular stimulation to drive neural plasticity and functional recovery. Current Opinion in Neurobiology, 2015, 33, 95-102.	4.2	56
735	Brain-Machine Interfaces beyond Neuroprosthetics. Neuron, 2015, 86, 55-67.	8.1	102
736	Recent advances in bioelectric prostheses. Neurology: Clinical Practice, 2015, 5, 164-170.	1.6	21
737	The Emergence of Single Neurons in Clinical Neurology. Neuron, 2015, 86, 79-91.	8.1	74
738	Decoding the timing and target locations of saccadic eye movements from neuronal activity in macaque oculomotor areas. Journal of Neural Engineering, 2015, 12, 036014.	3.5	3
739	Clinical translation of a high-performance neural prosthesis. Nature Medicine, 2015, 21, 1142-1145.	30.7	269
740	Quality of Neuron Signals Recorded in the Monkey Neocortex Using Chronically Implanted Multiple Microwires. Neuroscience and Behavioral Physiology, 2015, 45, 854-862.	0.4	0
741	Musculoskeletal Representation of a Large Repertoire of Hand Grasping Actions in Primates. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2015, 23, 210-220.	4.9	27
742	Online detection of horizontal hand movements from low frequency EEG components. , 2015, , .		2
743	Neural representations of movement intentions during brain-controlled self-motion. , 2015, , .		5
744	Motor cortical adaptation induced by closed-loop BCI. , 2015, , .		1
746	Brain-Machine Interfaces: From Macro- to Microcircuits. , 2015, , 407-428.		1
747	A programmable closed-loop recording and stimulating wireless system for behaving small laboratory animals. Scientific Reports, 2015, 4, 5963.	3.3	30

#	ARTICLE	IF	CITATIONS
748	Medical Robotics. , 2015, , .		16
749	Characterization of evoked tactile sensation in forearm amputees with transcutaneous electrical nerve stimulation. Journal of Neural Engineering, 2015, 12, 066002.	3.5	88
751	Solutions to Classical Problems in the Control of Motor Actions. , 2015, , 129-172.		0
752	Decoding Three-Dimensional Trajectory of Executed and Imagined Arm Movements From Electroencephalogram Signals. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2015, 23, 867-876.	4.9	119
753	Single-trial dynamics of motor cortex and their applications to brain-machine interfaces. Nature Communications, 2015, 6, 7759.	12.8	148
754	Recasting brain-machine interface design from a physical control system perspective. Journal of Computational Neuroscience, 2015, 39, 107-118.	1.0	12
755	Neuron Populations Giving Rise to Corticothalamic Projections to the Partially Deafferented Ventrolateral Nucleus of the Thalamus. Neuroscience and Behavioral Physiology, 2015, 45, 750-759.	0.4	1
756	Simultaneous and independent control of a brain-computer interface and contralateral limb movement. Brain-Computer Interfaces, 2015, 2, 174-185.	1.8	14
757	Estimation of two-digit grip type and grip force level by frequency decoding of motor cortex activity for a BMI application. , 2015, , .		3
758	Virtual typing by people with tetraplegia using a self-calibrating intracortical brain-computer interface. Science Translational Medicine, 2015, 7, 313ra179.	12.4	249
759	Comparison of spike sorting and thresholding of voltage waveforms for intracortical brain–machine interface performance. Journal of Neural Engineering, 2015, 12, 016009.	3.5	72
760	Neural Point-and-Click Communication by a Person With Incomplete Locked-In Syndrome. Neurorehabilitation and Neural Repair, 2015, 29, 462-471.	2.9	84
761	Degraded EEG decoding of wrist movements in absence of kinaesthetic feedback. Human Brain Mapping, 2015, 36, 643-654.	3.6	26
762	Brain-controlled muscle stimulation for the restoration of motor function. Neurobiology of Disease, 2015, 83, 180-190.	4.4	28
763	Carbon for Sensing Devices. , 2015, , .		5
764	WIMAGINE: Wireless 64-Channel ECoG Recording Implant for Long Term Clinical Applications. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2015, 23, 10-21.	4.9	142
765	A brain computer interface-based explorer. Journal of Neuroscience Methods, 2015, 244, 2-7.	2.5	79
766	Brain–computer interfaces and dualism: a problem of brain, mind, and body. AI and Society, 2016, 31, 29-40.	4.6	7

#	Article	IF	Citations
767	Uniform and Non-uniform Perturbations in Brain-Machine Interface Task Elicit Similar Neural Strategies. Frontiers in Systems Neuroscience, 2016, 10, 70.	2.5	4
769	Brainâ€"Computer Interfaceâ˜†. , 2016, , .		6
770	Amorphous Silicon Carbide for Neural Interface Applications. , 2016, , 249-260.		8
771	Designing Closed-Loop Brain-Machine Interfaces Using Model Predictive Control. Technologies, 2016, 4, 18.	5.1	0
772	Neural Operant Conditioning as a Core Mechanism of Brain-Machine Interface Control. Technologies, 2016, 4, 26.	5.1	6
773	Current Challenges Facing the Translation of Brain Computer Interfaces from Preclinical Trials to Use in Human Patients. Frontiers in Cellular Neuroscience, 2015, 9, 497.	3.7	35
774	Intracortical Brain-Machine Interfaces Advance Sensorimotor Neuroscience. Frontiers in Neuroscience, 2016, 10, 291.	2.8	22
775	In vivo Characterization of Amorphous Silicon Carbide As a Biomaterial for Chronic Neural Interfaces. Frontiers in Neuroscience, 2016, 10, 301.	2.8	36
776	A Sliced Inverse Regression (SIR) Decoding the Forelimb Movement from Neuronal Spikes in the Rat Motor Cortex. Frontiers in Neuroscience, 2016, 10, 556.	2.8	4
777	Forward Prediction in the Posterior Parietal Cortex and Dynamic Brain-Machine Interface. Frontiers in Integrative Neuroscience, 2016, 10, 35.	2.1	19
778	Neural Probes for Chronic Applications. Micromachines, 2016, 7, 179.	2.9	42
779	Penalized Multi-Way Partial Least Squares for Smooth Trajectory Decoding from Electrocorticographic (ECoG) Recording. PLoS ONE, 2016, 11, e0154878.	2.5	19
780	The Brain-Machine Interface (BMI) : A Novel Neurotechnology. Japanese Journal of Neurosurgery, 2016, 25, 964-972.	0.0	0
781	Neuroprosthetic Decoder Training as Imitation Learning. PLoS Computational Biology, 2016, 12, e1004948.	3.2	8
782	Independent Mobility Achieved through a Wireless Brain-Machine Interface. PLoS ONE, 2016, 11, e0165773.	2.5	30
783	Extracellular voltage threshold settings can be tuned for optimal encoding of movement and stimulus parameters. Journal of Neural Engineering, 2016, 13, 036009.	3.5	30
784	Decoding three-dimensional reaching movements using electrocorticographic signals in humans. Journal of Neural Engineering, 2016, 13, 026021.	3.5	80
785	Neural Engineering. , 2016, , .		8

#	Article	IF	Citations
786	A physiologically based hypothesis for learning proprioception and in approximating inverse kinematics. Physiological Reports, 2016, 4, e12774.	1.7	2
787	Biomimetic rehabilitation engineering: the importance of somatosensory feedback for brain–machine interfaces. Journal of Neural Engineering, 2016, 13, 041001.	3.5	26
788	Brain-Machine Interfaces: Restoring and Establishing Communication Channels. , 2016, , 227-259.		2
789	BCI-based approaches for real-time applications. , 2016, , .		1
790	Switching Markov decoders for asynchronous trajectory reconstruction from ECoG signals in monkeys for BCI applications. Journal of Physiology (Paris), 2016, 110, 348-360.	2.1	10
791	Using an Artificial Neural Bypass to Restore Cortical Control of Rhythmic Movements in a Human with Quadriplegia. Scientific Reports, 2016, 6, 33807.	3.3	49
792	Brain-Inspired Computing. Lecture Notes in Computer Science, 2016, , .	1.3	2
793	A hardware design for in-brain neural spike sorting. , 2016, , .		1
794	Noninvasive Electroencephalogram Based Control of a Robotic Arm for Reach and Grasp Tasks. Scientific Reports, 2016, 6, 38565.	3.3	333
795	Design of a Passive Upper Limb Exoskeleton for Macaque Monkeys. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2016, 138, .	1.6	4
796	Restoring motor control and sensory feedback in people with upper extremity amputations using arrays of 96 microelectrodes implanted in the median and ulnar nerves. Journal of Neural Engineering, 2016, 13, 036001.	3.5	268
797	An integrated interface for peripheral neural system recording and stimulation: system design, electrical tests and in-vivo results. Biomedical Microdevices, 2016, 18, 35.	2.8	14
798	Brain-machine interface facilitated neurorehabilitation via spinal stimulation after spinal cord injury: Recent progress and future perspectives. Brain Research, 2016, 1646, 25-33.	2.2	50
799	New Perspectives on Neuroengineering and Neurotechnologies: NSF-DFG Workshop Report. IEEE Transactions on Biomedical Engineering, 2016, 63, 1354-1367.	4.2	23
800	Restoring cortical control of functional movement in a human with quadriplegia. Nature, 2016, 533, 247-250.	27.8	723
801	Electroencephalographic Motor Imagery Brain Connectivity Analysis for BCI: A Review. Neural Computation, 2016, 28, 999-1041.	2.2	165
803	Chronic*in vivo*stability assessment of carbon fiber microelectrode arrays. Journal of Neural Engineering, 2016, 13, 066002.	3.5	166
805	Brain Machine-Interfaces for Motor and Communication Control. , 2016, , 227-251.		1

#	Article	IF	Citations
806	Brain–computer interfaces in the completely locked-in state and chronic stroke. Progress in Brain Research, 2016, 228, 131-161.	1.4	41
807	Chronic impedance spectroscopy of an endovascular stent-electrode array. Journal of Neural Engineering, 2016, 13, 046020.	3.5	35
808	The Performance Comparison of Two Kinds of Decoders in Brain-Machine Interface. , 2016, , .		3
809	Brain–computer interfaces for communication and rehabilitation. Nature Reviews Neurology, 2016, 12, 513-525.	10.1	559
810	Scientific profile of brain–computer interfaces: Bibliometric analysis in a 10-year period. Neuroscience Letters, 2016, 635, 61-66.	2.1	15
811	Neural interfaces take another step forward. Nature, 2016, 539, 177-178.	27.8	17
813	Maze learning by a hybrid brain-computer system. Scientific Reports, 2016, 6, 31746.	3.3	18
814	Interfacing a salamander brain with a salamander-like robot: Control of speed and direction with calcium signals from brainstem reticulospinal neurons. , 2016, , .		8
815	Bidirectional Brain–Machine Interfaces. , 2016, , 201-212.		2
816	Cytotoxicity of 3C–SiC Investigated Through Strict Adherence to ISO 10993. , 2016, , 27-61.		3
817	Maximum correntropy based attention-gated reinforcement learning designed for brain machine interface. , 2016, 2016, 3056-3059.		3
818	Adaptive decoding using local field potentials in a brain-machine interface. , 2016, 2016, 5721-5724.		1
819	Bioelectric Medicine and Devices for the Treatment of Spinal Cord Injury. Cells Tissues Organs, 2016, 202, 6-22.	2.3	5
820	A control-theoretic approach to brain-computer interface design. , 2016, , .		1
821	LabVIEW-based design and control of five-digit anthropomorphic robotic hand using EEG signals. International Journal of Biomedical Engineering and Technology, 2016, 22, 258.	0.2	1
822	Near Infrared Spectroscopy (NIRS) in Rehabilitation Medicine. The Japanese Journal of Rehabilitation Medicine, 2016, 53, 471-478.	0.0	0
823	Brain-machine interfaces: assistive, thought-controlled devices. Lab Animal, 2016, 45, 359-361.	0.4	3
824	Decoding EEG and LFP signals using deep learning. , 2016, , .		52

#	Article	IF	Citations
825	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
826	Adaptive neuron-to-EMG decoder training for FES neuroprostheses. Journal of Neural Engineering, 2016, 13, 046009.	3.5	12
827	Multisession, noninvasive closed-loop neuroprosthetic control of grasping by upper limb amputees. Progress in Brain Research, 2016, 228, 107-128.	1.4	28
828	Neurophysiological foundations and practical realizations of the brain–machine interfaces in the technology in neurological rehabilitation. Human Physiology, 2016, 42, 103-110.	0.4	18
829	Classifier Performance in Primary Somatosensory Cortex Towards Implementation of a Reinforcement Learning Based Brain Machine Interface. , 2016, 2016, 17-18.		9
830	A four-dimensional virtual hand brain–machine interface using active dimension selection. Journal of Neural Engineering, 2016, 13, 036021.	3.5	8
831	Brain-state classification and a dual-state decoder dramatically improve the control of cursor movement through a brain-machine interface. Journal of Neural Engineering, 2016, 13, 016009.	3.5	21
832	Exploring human epileptic activity at the single-neuron level. Epilepsy and Behavior, 2016, 58, 11-17.	1.7	11
833	Individual finger control of a modular prosthetic limb using high-density electrocorticography in a human subject. Journal of Neural Engineering, 2016, 13, 026017.	3.5	169
834	Wireless Multichannel Neural Recording With a 128-Mbps UWB Transmitter for an Implantable Brain-Machine Interfaces. IEEE Transactions on Biomedical Circuits and Systems, 2016, 10, 1068-1078.	4.0	75
835	Movement: How the Brain Communicates with the World. Cell, 2016, 164, 1122-1135.	28.9	92
836	Enabling Low-Power, Multi-Modal Neural Interfaces Through a Common, Low-Bandwidth Feature Space. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2016, 24, 521-531.	4.9	37
837	Anticipatory action selection for human–robot table tennis. Artificial Intelligence, 2017, 247, 399-414.	5.8	25
838	Quantized Attention-Gated Kernel Reinforcement Learning for Brain–Machine Interface Decoding. IEEE Transactions on Neural Networks and Learning Systems, 2017, 28, 873-886.	11.3	27
839	A High-Performance Neural Prosthesis Incorporating Discrete State Selection With Hidden Markov Models. IEEE Transactions on Biomedical Engineering, 2017, 64, 935-945.	4.2	63
840	Rapid control and feedback rates enhance neuroprosthetic control. Nature Communications, 2017, 8, 13825.	12.8	88
841	Decoding of intended saccade direction in an oculomotor brain–computer interface. Journal of Neural Engineering, 2017, 14, 046007.	3.5	12
842	Decoding Local Field Potentials for Neural Interfaces. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2017, 25, 1705-1714.	4.9	52

#	ARTICLE	IF	CITATIONS
843	Classification of upper limb center-out reaching tasks by means of EEG-based continuous decoding techniques. Journal of NeuroEngineering and Rehabilitation, 2017, 14, 9.	4.6	58
844	Practical brain-machine interface system. , 2017, , .		0
845	Review: Human Intracortical Recording and Neural Decoding for Brainâ€"Computer Interfaces. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2017, 25, 1687-1696.	4.9	80
846	Autonomy infused teleoperation with application to brain computer interface controlled manipulation. Autonomous Robots, 2017, 41, 1401-1422.	4.8	64
847	Emerging Technology and Architecture for Big-data Analytics. , 2017, , .		4
848	Predicting voluntary movements from motor cortical activity with neuromorphic hardware. IBM Journal of Research and Development, 2017, 61, 5:1-5:12.	3.1	4
849	Big Data Management in Neural Implants: The Neuromorphic Approach. , 2017, , 293-311.		5
850	Physiological properties of brain-machine interface input signals. Journal of Neurophysiology, 2017, 118, 1329-1343.	1.8	38
851	Robust tactile sensory responses in finger area of primate motor cortex relevant to prosthetic control. Journal of Neural Engineering, 2017, 14, 046016.	3.5	18
852	Morphological Interfaces. , 2017, , .		4
853	Syringe-injectable mesh electronics integrate seamlessly with minimal chronic immune response in the brain. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 5894-5899.	7.1	181
854	On the research of time past: the hunt for the substrate of memory. Annals of the New York Academy of Sciences, 2017, 1396, 108-125.	3.8	39
855	Decoding Information for Grasping from the Macaque Dorsomedial Visual Stream. Journal of Neuroscience, 2017, 37, 4311-4322.	3.6	28
856	Neural foundations of overt and covert actions. NeuroImage, 2017, 152, 482-496.	4.2	35
857	Interfacing to the brainâ€™s motor decisions. Journal of Neurophysiology, 2017, 117, 1305-1319.	1.8	36
858	Restoration of reaching and grasping movements through brain-controlled muscle stimulation in a person with tetraplegia: a proof-of-concept demonstration. Lancet, The, 2017, 389, 1821-1830.	13.7	632
859	Electrodeposited Iridium Oxide on Platinum Nanocones for Improving Neural Stimulation Microelectrodes. Electrochimica Acta, 2017, 237, 152-159.	5.2	45
860	Brain-Machine Interfaces: From Basic Science to Neuroprostheses and Neurorehabilitation. Physiological Reviews, 2017, 97, 767-837.	28.8	409

#	Article	IF	Citations
861	Feedback control policies employed by people using intracortical brain–computer interfaces. Journal of Neural Engineering, 2017, 14, 016001.	3.5	41
862	Brain–Machine Interface Control Algorithms. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2017, 25, 1725-1734.	4.9	58
863	Detecting abrupt change in neuronal tuning via adaptive point process estimation. , 2017, 2017, 4395-4398.		3
864	Advances in BCI: A Neural Bypass Technology to Reconnect the Brain to the Body. Springer Briefs in Electrical and Computer Engineering, 2017, , 9-20.	0.5	3
865	Neuron-Type-Specific Utility in a Brain-Machine Interface: a Pilot Study. Journal of Spinal Cord Medicine, 2017, 40, 715-722.	1.4	2
866	A Highly Stretchable Nanofiber-Based Electronic Skin with Pressure-, Strain-, and Flexion-Sensitive Properties for Health and Motion Monitoring. ACS Applied Materials & Interfaces, 2017, 9, 42951-42960.	8.0	147
867	Graphene in the Design and Engineering of Next‐Generation Neural Interfaces. Advanced Materials, 2017, 29, 1700909.	21.0	129
868	Advantages of Using the Dorsolateral versus the Dorsomedial Visual Stream for Decoding Hand Movements. Journal of Neuroscience, 2017, 37, 8312-8314.	3.6	0
869	Intracortical Microstimulation as a Feedback Source for Brain-Computer Interface Users. Springer Briefs in Electrical and Computer Engineering, 2017, , 43-54.	0.5	28
870	Neural control of finger movement via intracortical brain–machine interface. Journal of Neural Engineering, 2017, 14, 066004.	3.5	50
871	Microarrays in the Brain. , 2017, , 3-39.		0
872	Micro-Hermetic Packaging Technology for Active Implantable Neural Interfaces. , 2017, , .		7
873	The absence or temporal offset of visual feedback does not influence adaptation to novel movement dynamics. Journal of Neurophysiology, 2017, 118, 2483-2498.	1.8	17
874	Leveraging neural dynamics to extend functional lifetime of brain-machine interfaces. Scientific Reports, 2017, 7, 7395.	3.3	33
875	A highly accurate spike sorting processor with reconfigurable embedded frames for unsupervised and adaptive analysis of neural signals. , 2017, , .		1
876	Changes in cortical network connectivity with long-term brain-machine interface exposure after chronic amputation. Nature Communications, 2017, 8, 1796.	12.8	19
877	Glial responses to implanted electrodes in the brain. Nature Biomedical Engineering, 2017, 1, 862-877.	22.5	402
878	Augmenting intracortical brain-machine interface with neurally driven error detectors. Journal of Neural Engineering, 2017, 14, 066007.	3.5	23

#	ARTICLE	IF	CITATIONS
879	Neuromodulation in multiple sclerosis. Multiple Sclerosis Journal, 2017, 23, 1663-1676.	3.0	45
880	Scientific Advances on Consciousness. Lecture Notes in Computer Science, 2017, , 272-281.	1.3	0
881	Brain Computer Interfaces. Series on Bioengineering and Biomedical Engineering, 2017, , 850-869.	0.1	1
882	Control of Redundant Kinematic Degrees of Freedom in a Closed-Loop Brain-Machine Interface. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2017, 25, 750-760.	4.9	13
883	Controlling an electromyography-based power-assist device for the wrist using electroencephalography cortical currents. Advanced Robotics, 2017, 31, 88-96.	1.8	1
884	Local field potentials are induced by visually evoked spiking activity in macaque cortical area MT. Scientific Reports, 2017, 7, 17110.	3.3	15
885	Real-Time Brain Machine Interaction via Social Robot Gesture Control. , 2017, , .		4
886	Motor cortical activity changes during neuroprosthetic-controlled object interaction. Scientific Reports, 2017, 7, 16947.	3.3	52
887	Reduction of necessary data rate for neural data through exponential and sinusoidal spline decomposition using the Finite Rate of Innovation framework. , 2017, , .		0
888	SparkDict: A fast dictionary learning algorithm. , 2017, , .		1
889	Use of wavelet transform coefficients for spike detection for a Robust Intracortical Brain Machine Interface. , 2017, , .		2
890	Hybrid hermetic housings for active implantable neural device. , 2017, , .		0
891	A five degree-of-freedom body-machine interface for children with severe motor impairments. , 2017, , .		7
892	A P300 brain computer interface based intelligent home control system using a random forest classifier. , 2017, , .		16
893	Flexible pressure sensing system for tongue-based control of prosthetic hands. , 2017, , .		1
894	The Onset Time of the Ownership Sensation in the Moving Rubber Hand Illusion. Frontiers in Psychology, 2017, 8, 344.	2.1	53
895	A Partitioning Algorithm for Extracting Movement Epochs from Robot-Derived Kinematic Data. Frontiers in Robotics and AI, 2017, 4, .	3.2	1
896	High performance communication by people with paralysis using an intracortical brain-computer interface. ELife, 2017, 6, .	6.0	367

#	ARTICLE	IF	CITATIONS
897	Wireless closed-loop stimulation systems for symptom management. , 2017, , 151-189.		1
898	Body-Borne Computers as Extensions of Self. Computers, 2017, 6, 12.	3.3	18
899	Electroencephalogram-Based Brain–Computer Interface and Lower-Limb Prosthesis Control: A Case Study. Frontiers in Neurology, 2017, 8, 696.	2.4	36
900	Decoding Lower Limb Muscle Activity and Kinematics from Cortical Neural Spike Trains during Monkey Performing Stand and Squat Movements. Frontiers in Neuroscience, 2017, 11, 44.	2.8	14
901	Neural Interfaces for Intracortical Recording: Requirements, Fabrication Methods, and Characteristics. Frontiers in Neuroscience, 2017, 11, 665.	2.8	125
902	Restoration of Hindlimb Movements after Complete Spinal Cord Injury Using Brain-Controlled Functional Electrical Stimulation. Frontiers in Neuroscience, 2017, 11, 715.	2.8	16
903	Design of a gesture controlled robotic gripper arm using neural networks. , 2017, , .		2
904	Decoding Saccadic Directions Using Epidural ECoG in Non-Human Primates. Journal of Korean Medical Science, 2017, 32, 1243.	2.5	4
905	Biomechanics and neural control of movement, 20 years later: what have we learned and what has changed?. Journal of NeuroEngineering and Rehabilitation, 2017, 14, 91.	4.6	18
906	Recursive Exponentially Weighted N-way Partial Least Squares Regression with Recursive-Validation of Hyper-Parameters in Brain-Computer Interface Applications. Scientific Reports, 2017, 7, 16281.	3.3	25
907	Method for Measurement of Multi-Degrees-of-Freedom Motion Parameters Based on Polydimethylsiloxane Cross-Coupling Diffraction Gratings. Nanoscale Research Letters, 2017, 12, 515.	5.7	4
908	A fully implantable wireless neural interface for simultaneous recording from multiple sites of peripheral nerves in free moving animal. , 2017, , .		1
909	Implications for a Wireless, External Device System to Study Electrocorticography. Sensors, 2017, 17, 761.	3.8	4
910	P300 brain-computer interface: comparing faces to size matched non-face stimuli. Brain-Computer Interfaces, 2018, 5, 30-39.	1.8	21
911	A Comparison of Intention Estimation Methods for Decoder Calibration in Intracortical Brain–Computer Interfaces. IEEE Transactions on Biomedical Engineering, 2018, 65, 2066-2078.	4.2	19
912	A piecewise probabilistic regression model to decode hand movement trajectories from epidural and subdural ECoG signals. Journal of Neural Engineering, 2018, 15, 036020.	3.5	11
913	Prediction of Reach Goals in Depth and Direction from the Parietal Cortex. Cell Reports, 2018, 23, 725-732.	6.4	23
914	Sequence-based manipulation of robotic arm control in brain machine interface. International Journal of Intelligent Robotics and Applications, 2018, 2, 149-160.	2.8	4

#	Article	IF	Citations
915	A noninvasive brainâ€"computer interface approach for predicting motion intention of activities of daily living tasks for an upper-limb wearable robot. International Journal of Advanced Robotic Systems, 2018, 15, 172988141876731.	2.1	19
916	Rethinking the Three R's in Animal Research. , 2018, , .		3
917	fNIRS-based Neurorobotic Interface for gait rehabilitation. Journal of NeuroEngineering and Rehabilitation, 2018, 15, 7.	4.6	76
918	The grand challenges of <i>Science Robotics</i>. Science Robotics, 2018, 3, .	17.6	787
919	A review: Motor rehabilitation after stroke with control based on human intent. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2018, 232, 344-360.	1.8	49
920	Decoder calibration with ultra small current sample set for intracortical brainâ€"machine interface. Journal of Neural Engineering, 2018, 15, 026019.	3.5	17
921	Rapid calibration of an intracortical brainâ€"computer interface for people with tetraplegia. Journal of Neural Engineering, 2018, 15, 026007.	3.5	95
922	Sparsity Meets Dynamics: Robust Solutions to Neuronal Identification and Inverse Problems. , 2018, , 111-140.		0
923	Brainâ€"Machine Interfaces. , 2018, , 197-218.		0
924	Development and Characterization of a Sucrose Microneedle Neural Electrode Delivery System. Advanced Biology, 2018, 2, 1700187.	3.0	25
925	Dynamic Neuroscience. , 2018, , .		9
926	Mind Reading and Writing: The Future of Neurotechnology. Trends in Cognitive Sciences, 2018, 22, 598-610.	7.8	65
927	A Bit-Encoding Based New Data Structure for Time and Memory Efficient Handling of Spike Times in an Electrophysiological Setup. Neuroinformatics, 2018, 16, 217-229.	2.8	2
928	Optimizing the Usability of Brain-Computer Interfaces. Neural Computation, 2018, 30, 1323-1358.	2.2	5
929	An ovine model of cerebral catheter venography for implantation of an endovascular neural interface. Journal of Neurosurgery, 2018, 128, 1020-1027.	1.6	23
930	Predicting Spike Trains from PMd to M1 Using Discrete Time Rescaling Targeted GLM. IEEE Transactions on Cognitive and Developmental Systems, 2018, 10, 194-204.	3.8	6
931	EEG-based BCI and video games: a progress report. Virtual Reality, 2018, 22, 119-135.	6.1	126
932	Improved prediction of bimanual movements by a two-staged (effector-then-trajectory) decoder with epidural ECoG in nonhuman primates. Journal of Neural Engineering, 2018, 15, 016011.	3.5	20

#	Article	IF	Citations
933	Signal processing methods for reducing artifacts in microelectrode brain recordings caused by functional electrical stimulation. Journal of Neural Engineering, 2018, 15, 026014.	3.5	26
934	Remapping cortical modulation for electrocorticographic brain–computer interfaces: a somatotopy-based approach in individuals with upper-limb paralysis. Journal of Neural Engineering, 2018, 15, 026021.	3.5	38
935	Experimental Evaluation of Steady State Visual Evoked Potentials for Brain Machine Interface. Lecture Notes in Electrical Engineering, 2018, , 267-277.	0.4	0
936	Flexible Graphene Solution–Gated Field–Effect Transistors: Efficient Transducers for Micro–Electrocorticography. Advanced Functional Materials, 2018, 28, 1703976.	14.9	97
937	A Long-Term BCI Study With ECoG Recordings in Freely Moving Rats. Neuromodulation, 2018, 21, 149-159.	0.8	10
938	Neuroprostheses for Restoring Sensation. , 2018, , 1249-1260.		0
939	Neural Prostheses for Reaching and Grasping. , 2018, , .		0
940	Cortical Decoding of Individual Finger Group Motions Using ReFIT Kalman Filter. Frontiers in Neuroscience, 2018, 12, 751.	2.8	36
941	Optimizing User Integration for Individualized Rehabilitation. , 2018, , .		0
942	Brain signal acquisition methods in BCIs to estimate human motion intention – a survey. , 2018, , .		2
943	Trends and Future of Brain-Computer Interfaces. , 2018, , .		3
944	Tracking the Time Varying Neural Tuning via Adam on Point Process Observations. , 2018, 2018, 195-198.		3
945	Design, Manufacturing, and Characterization of a Pneumatically-Actuated Soft Hand. , 2018, , .		1
946	Cortical control of a tablet computer by people with paralysis. PLoS ONE, 2018, 13, e0204566.	2.5	108
947	Exploring representations of human grasping in neural, muscle and kinematic signals. Scientific Reports, 2018, 8, 16669.	3.3	32
948	Single Neuron Firing Rate Statistics in Motor Cortex During Execution and Observation of Movement. , 2018, 2018, 981-986.		0
949	Brain–Computer Interfaces. , 2018, , 341-356.		2
950	Invasive Brain–Computer Interfaces for Functional Restoration. , 2018, , 379-391.		1

#	Article	IF	Citations
951	Invasive Brain-Computer Interfaces and Neural Recordings From Humans. Handbook of Behavioral Neuroscience, 2018, 28, 527-539.	0.7	7
952	A Distributed-Parameter Control System Using Electromagnetic Images Stimulation for Human-Machine Perception Interface. , 2018, , .		2
953	Implantable Neural Probes for Brain-Machine Interfaces ? Current Developments and Future Prospects. Experimental Neurobiology, 2018, 27, 453-471.	1.6	45
954	Brainâ€"Computer Interfaces: Neurophysiological Bases and Clinical Applications. Neuroscience and Behavioral Physiology, 2018, 48, 1033-1040.	0.4	7
955	An Approach for Brain-Controlled Prostheses Based on a Facial Expression Paradigm. Frontiers in Neuroscience, 2018, 12, 943.	2.8	16
956	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
957	HD-EEG Based Classification of Motor-Imagery Related Activity in Patients With Spinal Cord Injury. Frontiers in Neurology, 2018, 9, 955.	2.4	9
958	Decoding arm speed during reaching. Nature Communications, 2018, 9, 5243.	12.8	34
959	Optimizing the learning rate for adaptive estimation of neural encoding models. PLoS Computational Biology, 2018, 14, e1006168.	3.2	32
960	Paradigm Shift in Sensorimotor Control Research and Brain Machine Interface Control: The Influence of Context on Sensorimotor Representations. Frontiers in Neuroscience, 2018, 12, 579.	2.8	19
961	The critical stability task: quantifying sensory-motor control during ongoing movement in nonhuman primates. Journal of Neurophysiology, 2018, 120, 2164-2181.	1.8	1
962	Implicit Grasp Force Representation in Human Motor Cortical Recordings. Frontiers in Neuroscience, 2018, 12, 801.	2.8	20
963	Single-Finger Neural Basis Information-Based Neural Decoder for Multi-Finger Movements. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2018, 26, 2240-2248.	4.9	1
964	Latent Factors and Dynamics in Motor Cortex and Their Application to Brainâ€"Machine Interfaces. Journal of Neuroscience, 2018, 38, 9390-9401.	3.6	81
965	Patient-Specific Pose Estimation in Clinical Environments. IEEE Journal of Translational Engineering in Health and Medicine, 2018, 6, 1-11.	3.7	31
966	Non-invasive decoding of hand movements from electroencephalography based on a hierarchical linear regression model. Review of Scientific Instruments, 2018, 89, 084303.	1.3	3
967	Robust Closed-Loop Control of a Cursor in a Person with Tetraplegia using Gaussian Process Regression. Neural Computation, 2018, 30, 2986-3008.	2.2	20
968	Context-dependent tactile texture-sensitivity in monkey M1 and S1 cortex. Journal of Neurophysiology, 2018, 120, 2334-2350.	1.8	12

#	Article	IF	Citations
969	A Fully Implantable Wireless ECoG 128-Channel Recording Device for Human Brain–Machine Interfaces: W-HERBS. Frontiers in Neuroscience, 2018, 12, 511.	2.8	34
971	A fingertip force prediction model for grasp patterns characterised from the chaotic behaviour of EEG. Medical and Biological Engineering and Computing, 2018, 56, 2095-2107.	2.8	14
972	Advances in Invasive Brain–Computer Interface Technology and Decoding Methods for Restoring Movement and Future Applications. , 2018, , 415-425.		3
973	Shining a Light on Awareness: A Review of Functional Near-Infrared Spectroscopy for Prolonged Disorders of Consciousness. Frontiers in Neurology, 2018, 9, 350.	2.4	43
974	Decoding of Ankle Flexion and Extension from Cortical Current Sources Estimated from Non-invasive Brain Activity Recording Methods. Frontiers in Neuroscience, 2017, 11, 733.	2.8	8
975	Decoding unconstrained arm movements in primates using high-density electrocorticography signals for brain-machine interface use. Scientific Reports, 2018, 8, 10583.	3.3	15
976	The Monkey Question. , 2018, , 71-101.		0
977	A simulation study on the effects of neuronal ensemble properties on decoding algorithms for intracortical brain–machine interfaces. BioMedical Engineering OnLine, 2018, 17, 28.	2.7	2
978	Microelectrode Array. Micro/Nano Technologies, 2018, , 1379-1411.	0.1	0
979	Comparison of truncation thresholds with four different robust scale estimators. , 2018, , .		3
980	Effect of Thickness Inhomogeneity in Fat Tissue on In-Body Microwave Propagation. , 2018, , .		8
982	A comparative study on the estimation of noise standard deviation using DATE and truncation thresholds. , 2018, , .		3
983	Data-Driven Transducer Design and Identification for Internally-Paced Motor Brain Computer Interfaces: A Review. Frontiers in Neuroscience, 2018, 12, 540.	2.8	5
984	Organic Bioelectronics: Materials and Biocompatibility. International Journal of Molecular Sciences, 2018, 19, 2382.	4.1	102
985	Long-term stability of neural signals from microwire arrays implanted in common marmoset motor cortex and striatum. Biomedical Physics and Engineering Express, 2018, 4, 055025.	1.2	16
986	Brain–computer interfaces for neurorehabilitation: enhancing functional electrical stimulation. , 2018, , 425-451.		0
987	Brain-Machine Interfaces: Powerful Tools for Clinical Treatment and Neuroscientific Investigations. Neuroscientist, 2019, 25, 139-154.	3.5	51
988	Developing a Three- to Six-State EEG-Based Brain–Computer Interface for a Virtual Robotic Manipulator Control. IEEE Transactions on Biomedical Engineering, 2019, 66, 977-987.	4.2	24

#	ARTICLE	IF	CITATIONS
989	Biologically Inspired Motion Modeling and Neural Control for Robot Learning From Demonstrations. IEEE Transactions on Cognitive and Developmental Systems, 2019, 11, 281-291.	3.8	60
990	A High Definition Noninvasive Neuromuscular Electrical Stimulation System for Cortical Control of Combinatorial Rotary Hand Movements in a Human With Tetraplegia. IEEE Transactions on Biomedical Engineering, 2019, 66, 910-919.	4.2	26
991	Design of Hidden-Property-Based Variable Universe Fuzzy Control for Movement Disorders and Its Efficient Reconfigurable Implementation. IEEE Transactions on Fuzzy Systems, 2019, 27, 304-318.	9.8	34
992	Clustering Neural Patterns in Kernel Reinforcement Learning Assists Fast Brain Control in Brain-Machine Interfaces. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2019, 27, 1684-1694.	4.9	19
993	Neural response to grasp of robot hand from M1 area of Rhesus monkey. , 2019, , .		2
994	The Functional Capacity of theÂHumanlike Robotic Hands. , 2019, , 291-312.		2
995	Well Controlled 3D Iridium Oxide/Platinum Nanocomposites with Greatly Enhanced Electrochemical Performances. Advanced Materials Interfaces, 2019, 6, 1900356.	3.7	13
996	Brain-Computer Interface Research. Springer Briefs in Electrical and Computer Engineering, 2019, , .	0.5	4
997	Evaluation of a minimally invasive endovascular neural interface for decoding motor activity. , 2019, , .		4
998	Neural correlates of unstructured motor behaviors. Journal of Neural Engineering, 2019, 16, 066026.	3.5	9
1000	Enhancing VAEs for collaborative filtering. , 2019, , .		24
1001	Rapid Detection of Inactive Channels during Multi-unit Intracranial Recordings. , 2019, , .		2
1002	A Multi-Channel Asynchronous Neurostimulator With Artifact Suppression for Neural Code-Based Stimulations. Frontiers in Neuroscience, 2019, 13, 1011.	2.8	8
1003	Neural Correlates of Control of a Kinematically Redundant Brain-Machine Interface*. , 2019, , .		3
1004	A Robust Encoding Scheme for Delivering Artificial Sensory Information via Direct Brain Stimulation. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2019, 27, 1994-2004.	4.9	13
1005	Large-Scale Neural Consolidation in BMI Learning*. , 2019, , .		3
1006	Faces, locations, and tools: a proposed two-stimulus P300 brain computer interface. Journal of Neural Engineering, 2019, 16, 036026.	3.5	9
1007	Adaptive Auto-Regressive Proportional Myoelectric Control. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2019, 27, 314-322.	4.9	25

#	Article	IF	Citations
1008	Ultracompact Multielectrode Array for Neurological Monitoring. Sensors, 2019, 19, 2286.	3.8	4
1009	Principled BCI Decoder Design and Parameter Selection Using a Feedback Control Model. Scientific Reports, 2019, 9, 8881.	3.3	28
1010	Micro/Nano Technologies for High-Density Retinal Implant. Micromachines, 2019, 10, 419.	2.9	26
1011	Stimulated activity in the neural tissue. Journal of Applied Physics, 2019, 125, 211101.	2.5	5
1012	In vivo Recording Quality of Mechanically Decoupled Floating Versus Skull-Fixed Silicon-Based Neural Probes. Frontiers in Neuroscience, 2019, 13, 464.	2.8	13
1014	Precise Tubular Braid Structures of Ultrafine Microwires as Neural Probes: Significantly Reduced Chronic Immune Response and Greater Local Neural Survival in Rat Cortex. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2019, 27, 846-856.	4.9	4
1015	High-Speed Visual Target Identification for Low-Cost Wearable Brain-Computer Interfaces. IEEE Access, 2019, 7, 55169-55179.	4.2	10
1016	Reliability of motor and sensory neural decoding by threshold crossings for intracortical brain–machine interface. Journal of Neural Engineering, 2019, 16, 036011.	3.5	21
1017	Towards neural co-processors for the brain: combining decoding and encoding in brain–computer interfaces. Current Opinion in Neurobiology, 2019, 55, 142-151.	4.2	36
1018	Neurofeedback Training of Gamma Oscillations in Monkey Primary Visual Cortex. Cerebral Cortex, 2019, 29, 4785-4802.	2.9	12
1019	Vision-aided brain–machine interface training system for robotic arm control and clinical application on two patients with cervical spinal cord injury. BioMedical Engineering OnLine, 2019, 18, 14.	2.7	11
1020	Restoring Movement in Paralysis with a Bioelectronic Neural Bypass Approach: Current State and Future Directions. Cold Spring Harbor Perspectives in Medicine, 2019, 9, a034306.	6.2	7
1021	Design and testing of a 96-channel neural interface module for the Networked Neuroprosthesis system. Bioelectronic Medicine, 2019, 5, 3.	2.3	19
1022	Novel solutions for actuation of an above elbow prosthesis. IOP Conference Series: Materials Science and Engineering, 2019, 514, 012047.	0.6	0
1023	Decoding Movements Using Local Field Potentials from Premotor Cortex of Stroke Rats. , 2019, , .		1
1024	Single Relay Selection in the Cognitive Cooperative Network: Toward Bandwidth Efficiency Improvement. , 2019, , .		7
1025	Super Long Interval Time-Lapse Image Generation for Proactive Preservation of Cultural Heritage Using Crowdsourcing. , 2019, , .		1
1026	A Spatially Consistent Geometric D2D Small-Scale Fading Model for Multiple Frequencies. , 2019, , .		2

#	ARTICLE	IF	CITATIONS
1027	Experimental Characterization of Rectifier Made of Pump-Charge and DC–DC Converter for Receiver of Wireless Power Transfer. , 2019, , .		2
1028	Prediction of Cardiovascular Disease using Data Mining Technique. , 2019, , .		1
1029	Photoplethysmography: Light Emitter Diode Wavelength Derivation from the Absorption Spectra of Haemoglobin. , 2019, , .		1
1030	Application of Piezoresistive Stress Sensor in Mold-1st Fan-out Wafer Level Packaging Processes. , 2019, , .		2
1031	Criteria for Selection Envelope Tracking Power Supply Parameters for High Peak-to-Average Power Ratio Applications. , 2019, , .		14
1032	Novel Runner-Root Algorithm based Maximum Power Point Tracking Approach for Permanent-Magnet Synchronous Generator Direct-Driven Wind Energy Conversion Systems. , 2019, , .		0
1033	neomento SAD - VR Treatment For Social Anxiety. , 2019, , .		3
1034	State Space Models with Dynamical and Sparse Variances, and Inference by EM Message Passing. , 2019, , .		3
1035	Discussion on the Rotation Transformation in Fully Polarimetric Synthetic Aperture Radar DARA Interpretation. , 2019, , .		0
1036	Design and Automatic Generation of High-Speed Circuits for Wireline Communications. , 2019, , .		0
1038	Construction of Environmental Map Based on Lidar Based Tracking System. , 2019, , .		1
1039	Digital and Accessible Library: Inclusive Innovation for the Digitization of Educational Materials and Libraries. , 2019, , .		1
1040	FPGA-based LED Display Technology. , 2019, , .		2
1041	A simple and practical approach to development of the fast algorithms for matrix-vector multiplication. , 2019, , .		0
1042	Optimizing Secrecy Performance of Trusted RF Relay against External Eavesdropping. , 2019, , .		1
1043	Research on the Wheel Model Automatic Identification System. , 2019, , .		2
1044	Survey on Automatic Script Identification Techniques. , 2019, , .		1
1045	On Discharge Inception Voltage for Insulators under Non-uniform Field with AC Voltage. , 2019, , .		1

#	Article	IF	Citations
1046	Online Adaptive Decoding of Motor Imagery Based on Reinforcement Learning. , 2019, , .		1
1047	A Design of APFC Module Applied in Induction Machine Driver. , 2019, , .		0
1048	User-state Prediction using Brain Connectivity. , 2019, , .		1
1049	From thought to action: The brain–machine interface in posterior parietal cortex. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 26274-26279.	7.1	49
1050	An Investigation of System Architecture for Autonomous Vehicle: Modeling and Simulation. , 2019, , .		0
1051	EVER 2019 List of Reviewers Page. , 2019, , .		0
1053	A Trial Robotic Wheel Unit for Mobile Platform. , 2019, , .		0
1054	Formation of a Precise Behavioral Motor Response to an External Pain Stimulus Is Not Possible without a Subjective Experience of Pain. Neurophysiology, 2019, 51, 462-474.	0.3	1
1055	Multiple Biological Network Alignment through Network Generation and Feature Weight Annotations. , 2019, , .		1
1056	A Permissioned Blockchain Approach to the Authorization Process in Electronic Health Records. , 2019, , .		9
1058	Fine-grained Image Caption based on Multi-level Attention. , 2019, , .		0
1059	Radio Frequency Interference Devices: the SMOS Experience. , 2019, , .		3
1060	Accurate Lane Detection with Atrous Convolution and Spatial Pyramid Pooling for Autonomous Driving. , 2019, , .		8
1061	Website Log Statistical Testing and Analysis. , 2019, , .		0
1062	AR Brain-Shift Display for Computer-Assisted Neurosurgery. , 2019, , .		3
1063	ICACC 2019 TOC. , 2019, , .		0
1064	Distributed processing of movement signaling. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 26266-26273.	7.1	5
1065	Attitude Control of Satellites Actuated by Hybrid Actuators. , 2019, , .		1

#	Article	IF	Citations
1066	First Vertically Stacked Tensily Strained Ge$_{0.98}$Si$_{0.02}$ nGAAFETs with No Parasitic Channel and L$_G$ = 40 nm Featuring Record I$_{ON}$ = 48 μA at V$_{OV}$=V$_{DS}$=0.5V and Record G$_{m,max}$(μS/μm)/SS$_{SAT}$(mV/dec) = 8.3 at V$_{DS}$=0.5V. , 2019, , .		5
1067	Paintable Wireless Passive Sensor based on Electromagnetic Waveguide to Detect Loose Bolts for Remote Infrastructure Inspection. , 2019, , .		3
1068	Microwave Heating Study of Dielectric Material Placed at the Injection Port of an E-Plane Bend. , 2019, , .		0
1069	A comparative study of motor imagery based BCI classifiers on EEG and iEEG data. , 2019, , .		0
1070	Design and Use of an Apparatus for Presenting Graspable Objects in 3D Workspace. Journal of Visualized Experiments, 2019, , .	0.3	0
1071	Decoding Movement From Electrocorticographic Activity: A Review. Frontiers in Neuroinformatics, 2019, 13, 74.	2.5	61
1072	Myoelectric Control for Upper Limb Prostheses. Electronics (Switzerland), 2019, 8, 1244.	3.1	27
1073	Activity in Primary Motor Cortex Related to Visual Feedback. Cell Reports, 2019, 29, 3872-3884.e4.	6.4	6
1074	A Pathological Condition Affects Motor Modules in a Bipedal Locomotion Model. Frontiers in Neurorobotics, 2019, 13, 79.	2.8	2
1075	An Implantable Cranial Window Using a Collagen Membrane for Chronic Voltage-Sensitive Dye Imaging. Micromachines, 2019, 10, 789.	2.9	8
1076	A Bionic Vibration Source Localization Device Inspired by the Hunting Localization Mechanism of Scorpions. Journal of Bionic Engineering, 2019, 16, 1019-1029.	5.0	3
1077	A comprehensive review of EEG-based brain–computer interface paradigms. Journal of Neural Engineering, 2019, 16, 011001.	3.5	512
1078	Experimental Verifications of Low Frequency Path Gain (PG) Channel Modeling for Implantable Medical Device (IMD). IEEE Access, 2019, 7, 11934-11945.	4.2	9
1079	An EOG-based wheelchair robotic arm system for assisting patients with severe spinal cord injuries. Journal of Neural Engineering, 2019, 16, 026021.	3.5	27
1080	Multiscale modeling and decoding algorithms for spike-field activity. Journal of Neural Engineering, 2019, 16, 016018.	3.5	22
1081	Closed-loop cortical control of virtual reach and posture using Cartesian and joint velocity commands. Journal of Neural Engineering, 2019, 16, 026011.	3.5	14
1082	Coarse behavioral context decoding. Journal of Neural Engineering, 2019, 16, 016021.	3.5	9
1083	An automated behavioral apparatus to combine parameterized reaching and grasping movements in 3D space. Journal of Neuroscience Methods, 2019, 312, 139-147.	2.5	4

#	ARTICLE	IF	CITATIONS
1084	Using High-Frequency Local Field Potentials From Multicortex to Decode Reaching and Grasping Movements in Monkey. IEEE Transactions on Cognitive and Developmental Systems, 2019, 11, 270-280.	3.8	7
1085	Towards a Hybrid BCI Gaming Paradigm Based on Motor Imagery and SSVEP. International Journal of Human-Computer Interaction, 2019, 35, 197-205.	4.8	54
1086	Fabrication and validation of flexible 3D pillar electrodes for neural electrophysiological recording. Engineering Research Express, 2020, 2, 025025.	1.6	4
1087	A versatile robotic platform for the design of natural, three-dimensional reaching and grasping tasks in monkeys. Journal of Neural Engineering, 2020, 17, 016004.	3.5	10
1088	Path loss modeling and verification of implantable human-body communication based on a point source field. Technology and Health Care, 2020, 28, 283-292.	1.2	0
1089	Deep Learning Neural Encoders for Motor Cortex. IEEE Transactions on Biomedical Engineering, 2020, 67, 2145-2158.	4.2	7
1090	The Modular Prosthetic Limb. , 2020, , 393-444.		19
1091	Sensing and Control for Prosthetic Hands in Clinical and Research Applications. , 2020, , 445-468.		12
1092	Multiview Supervision By Registration. , 2020, , .		4
1093	Wearable mechatronic devices for upper-limb amputees. , 2020, , 205-234.		4
1094	Structure in Neural Activity during Observed and Executed Movements Is Shared at the Neural Population Level, Not in Single Neurons. Cell Reports, 2020, 32, 108006.	6.4	30
1095	A Brain-Computer Interface Based on Multifocal SSVEPs Detected by Inter-Task-Related Component Analysis. IEEE Access, 2020, 8, 138539-138550.	4.2	7
1096	A low-power band of neuronal spiking activity dominated by local single units improves the performance of brain–machine interfaces. Nature Biomedical Engineering, 2020, 4, 973-983.	22.5	73
1098	Decoding movement direction from cortical microelectrode recordings using an LSTM-based neural network. , 2020, 2020, 3007-3010.		5
1099	Orthogonalizing the Activity of Two Neural Units for 2D Cursor Movement Control. , 2020, 2020, 3046-3049.		1
1100	State-Based Decoding of Force Signals From Multi-Channel Local Field Potentials. IEEE Access, 2020, 8, 159089-159099.	4.2	12
1101	Introductory Chapter: Methods and Applications of Neural Signal Processing. , 2020, , .		1
1102	Opportunities and limitations of genetically modified nonhuman primate models for neuroscience research. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 24022-24031.	7.1	64

#	Article	IF	Citations
1103	Operant conditioning of motor cortex neurons reveals neuron-subtype-specific responses in a brain-machine interface task. Scientific Reports, 2020, 10, 19992.	3.3	6
1104	Generative Decoding of Intracortical Neuronal Signals for Online Control of Robotic Arm to Intercept Moving Objects. Journal of Physics: Conference Series, 2020, 1576, 012057.	0.4	4
1105	Life, death, and self: Fundamental questions of primitive cognition viewed through the lens of body plasticity and synthetic organisms. Biochemical and Biophysical Research Communications, 2021, 564, 114-133.	2.1	42
1106	Reinforcement Learning Based Fast Self-Recalibrating Decoder for Intracortical Brain–Machine Interface. Sensors, 2020, 20, 5528.	3.8	2
1107	Donning/Doffing and Arm Positioning Influence in Upper Limb Adaptive Prostheses Control. Applied Sciences (Switzerland), 2020, 10, 2892.	2.5	1
1108	Host tissue response to floating microelectrode arrays chronically implanted in the feline spinal nerve. Journal of Neural Engineering, 2020, 17, 046012.	3.5	7
1109	The combination of brain-computer interfaces and artificial intelligence: applications and challenges. Annals of Translational Medicine, 2020, 8, 712-712.	1.7	31
1110	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
1111	Bidirectional brain-computer interfaces. Handbook of Clinical Neurology / Edited By P J Vinken and G W Bruyn, 2020, 168, 163-181.	1.8	31
1112	Multifield Coupled Dynamics of Power Supply Arc Based on Image 3D Reconstruction Mathematical Model. IEEE Sensors Journal, 2020, 20, 12024-12031.	4.7	1
1113	Dilated Causal Convolutional Model For RF Fingerprinting. , 2020, , .		43
1114	The Discriminative Kalman Filter for Bayesian Filtering with Nonlinear and Nongaussian Observation Models. Neural Computation, 2020, 32, 969-1017.	2.2	13
1115	Load-Leveling Trainer for Demand Side Management on a 45kW Cyber-Physical Microgrid. , 2020, , .		1
1116	A state-based probabilistic method for decoding hand position during movement from ECoG signals in non-human primate. Journal of Neural Engineering, 2020, 17, 026042.	3.5	6
1117	Applications of brain-computer interfaces to the control of robotic and prosthetic arms. Handbook of Clinical Neurology / Edited By P J Vinken and G W Bruyn, 2020, 168, 87-99.	1.8	37
1118	Merging brain-computer interface and functional electrical stimulation technologies for movement restoration. Handbook of Clinical Neurology / Edited By P J Vinken and G W Bruyn, 2020, 168, 303-309.	1.8	11
1120	Peering into the future: long-run economic and social consequences of automation; with an epilogue on COVID-19. , 2020, , 209-221.		0
1121	An Artificial Neural Network Processor With a Custom Instruction Set Architecture for Embedded Applications. IEEE Transactions on Circuits and Systems I: Regular Papers, 2020, 67, 5200-5210.	5.4	10

#	Article	IF	Citations
1122	Speech-related dorsal motor cortex activity does not interfere with iBCI cursor control. Journal of Neural Engineering, 2020, 17, 016049.	3.5	21
1123	A neural network for online spike classification that improves decoding accuracy. Journal of Neurophysiology, 2020, 123, 1472-1485.	1.8	11
1124	Regularized Partial Least Square Regression for Continuous Decoding in Brain-Computer Interfaces. Neuroinformatics, 2020, 18, 465-477.	2.8	12
1125	Self-Adaptive Secondary Frequency Regulation Strategy of Micro-Grid With Multiple Virtual Synchronous Generators. IEEE Transactions on Industry Applications, 2020, 56, 6007-6018.	4.9	33
1126	A Brain to Spine Interface for Transferring Artificial Sensory Information. Scientific Reports, 2020, 10, 900.	3.3	15
1127	Ipsilateral primary motor cortex and behavioral compensation after stroke: a case series study. Experimental Brain Research, 2020, 238, 439-452.	1.5	3
1128	Brain mechanisms in motor control during reaching movements: Transition of functional connectivity according to movement states. Scientific Reports, 2020, 10, 567.	3.3	24
1129	Bacomics: a comprehensive cross area originating in the studies of various brainâ€"apparatus conversations. Cognitive Neurodynamics, 2020, 14, 425-442.	4.0	11
1130	Fault diagnosis of circuit breakers based on timeâ€"frequency and chaotic vibration analysis. IET Generation, Transmission and Distribution, 2020, 14, 1214-1221.	2.5	17
1131	Pseudorandom Number Generators with Predeterminated Period and Pre-period. , 2020, , .		1
1132	A Mongrel Technique for the Reducation of Sidelobes in OFDM â€" Based Cognitive Radio System. , 2020, , .		3
1133	Toward the Next Generation of Retinal Neuroprosthesis: Visual Computation with Spikes. Engineering, 2020, 6, 449-461.	6.7	23
1134	Improved Sliding Mode Control With Time Delay Estimation for Motion Tracking of Cell Puncture Mechanism. IEEE Transactions on Circuits and Systems I: Regular Papers, 2020, 67, 3199-3210.	5.4	14
1135	Security Analysis of Russian Transport Cards. , 2020, , .		0
1136	A new numerical approach to the calibration and interpretation of PEA measurements. IEEE Transactions on Dielectrics and Electrical Insulation, 2020, 27, 666-674.	2.9	11
1137	Statistical Loss and Analysis for Deep Learning in Hyperspectral Image Classification. IEEE Transactions on Neural Networks and Learning Systems, 2021, 32, 322-333.	11.3	44
1138	Human-machine shared control: New avenue to dexterous prosthetic hand manipulation. Science China Technological Sciences, 2021, 64, 767-773.	4.0	12
1139	Feature-Selection-Based Transfer Learning for Intracortical Brainâ€"Machine Interface Decoding. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2021, 29, 60-73.	4.9	5

#	Article	IF	Citations
1140	Design of intracortical microstimulation patterns to control the location, intensity, and quality of evoked sensations in human and animal models. , 2021, , 479-506.		0
1142	Wearable and non-invasive assistive technologies. , 2021, , 593-627.		2
1143	Neurostimulator for Hippocampal Memory Prosthesis. Contemporary Clinical Neuroscience, 2021, , 39-56.	0.3	0
1144	Invasive BCI Approaches for Restoration of Upper Extremity Movements. , 2021, , 217-232.		1
1145	Auditory cues reveal intended movement information in middle frontal gyrus neuronal ensemble activity of a person with tetraplegia. Scientific Reports, 2021, 11, 98.	3.3	12
1147	Restoring upper extremity function with brain-machine interfaces. International Review of Neurobiology, 2021, 159, 153-186.	2.0	0
1148	Closing the Loop Between Body Compensations and Upper Limb Prosthetic Movements: A Feasibility Study. IEEE Transactions on Medical Robotics and Bionics, 2021, 3, 230-240.	3.2	8
1149	Multimodal Neural Interface Circuits for Diverse Interaction With Neuronal Cell Population in Human Brain. IEEE Transactions on Circuits and Systems II: Express Briefs, 2021, 68, 574-580.	3.0	4
1150	Evaluating person-centered factors associated with brain–computer interface access to a commercial augmentative and alternative communication paradigm. Assistive Technology, 2022, 34, 468-477.	2.0	6
1152	The Future of Neuroscience: Flexible and Wireless Implantable Neural Electronics. Advanced Science, 2021, 8, 2002693.	11.2	47
1153	Determination of Effective Signal Processing Stages for Brain Computer Interface on BCI Competition IV Data Set 2b: A Review Study. IETE Journal of Research, 2023, 69, 3144-3155.	2.6	11
1154	A distributed-parameter control system using electromagnetic neural stimulation for human–machine perception interface. Journal of Control and Decision, 2022, 9, 23-34.	1.6	0
1155	Hierarchical Dynamical Model for Multiple Cortical Neural Decoding. Neural Computation, 2021, 33, 1372-1401.	2.2	4
1157	Continuous sensorimotor rhythm based brain computer interface learning in a large population. Scientific Data, 2021, 8, 98.	5.3	21
1158	User State Classification Based on Functional Brain Connectivity Using a Convolutional Neural Network. Electronics (Switzerland), 2021, 10, 1158.	3.1	2
1159	Brain–Machine Interfaces: Closed-Loop Control in an Adaptive System. Annual Review of Control, Robotics, and Autonomous Systems, 2021, 4, 167-189.	11.8	10
1160	A brain-computer interface that evokes tactile sensations improves robotic arm control. Science, 2021, 372, 831-836.	12.6	245
1161	Dendritic calcium signals in rhesus macaque motor cortex drive an optical brain-computer interface. Nature Communications, 2021, 12, 3689.	12.8	38

#	Article	IF	Citations
1162	Physical principles of brain–computer interfaces and their applications for rehabilitation, robotics and control of human brain states. Physics Reports, 2021, 918, 1-133.	25.6	88
1163	A Nonlinear Maximum Correntropy Information Filter for High-Dimensional Neural Decoding. Entropy, 2021, 23, 743.	2.2	5
1164	Developments in the human machine interface technologies and their applications: a review. Journal of Medical Engineering and Technology, 2021, 45, 552-573.	1.4	19
1165	Evaluation of Phantom Finger Sensation Evoked by Electrical Stimulation for Transradial Amputee: A Case Study. , 2021, , .		1
1166	Brain-Computer Interface, Neuromodulation, and Neurorehabilitation Strategies for Spinal Cord Injury. Neurosurgery Clinics of North America, 2021, 32, 407-417.	1.7	3
1167	Detecting Movement Timing from Primate Intracortical Signals for Brain-machine Interfaces in Dynamic Environment. , 2021, , .		0
1169	Generalizable cursor click decoding using grasp-related neural transients. Journal of Neural Engineering, 2021, 18, 0460e9.	3.5	8
1170	Neural stimulation and recording performance in human sensorimotor cortex over 1500 days. Journal of Neural Engineering, 2021, 18, 045012.	3.5	50
1171	Neurally driven synthesis of learned, complex vocalizations. Current Biology, 2021, 31, 3419-3425.e5.	3.9	4
1173	A modular strategy for next-generation upper-limb sensory-motor neuroprostheses. Med, 2021, 2, 912-937.	4.4	16
1174	Electrode materials for brain–machine interface: A review. InformaÄnÃ-MateriÃ¡ly, 2021, 3, 1174-1194.	17.3	32
1175	Local field potentials in a pre-motor region predict learned vocal sequences. PLoS Computational Biology, 2021, 17, e1008100.	3.2	6
1176	The science and engineering behind sensitized brain-controlled bionic hands. Physiological Reviews, 2022, 102, 551-604.	28.8	32
1177	Historical perspectives, challenges, and future directions of implantable brain-computer interfaces for sensorimotor applications. Bioelectronic Medicine, 2021, 7, 14.	2.3	11
1179	The impact of distractions on intracortical brain–computer interface control of a robotic arm. Brain-Computer Interfaces, 2022, 9, 23-35.	1.8	2
1180	Computational Design of an Integrated CMOS Readout Circuit for Sensing With Organic Field-Effect Transistors. Frontiers in Electronics, 2021, 2, .	3.2	1
1181	Connectomic DBS: An introduction. , 2022, , 3-23.		5
1182	Replacing EEG Sensors by AI Based Emulation. Lecture Notes in Computer Science, 2021, , 66-80.	1.3	1

#	Article	IF	Citations
1183	Neural Encoding and Decoding. , 2021, , 1-24.		0
1184	Real-Time Decoding of Attentional States Using Closed-Loop EEG Neurofeedback. Neural Computation, 2021, 33, 967-1004.	2.2	9
1185	Brain Co-processors: Using AI to Restore and Augment Brain Function. , 2021, , 1-36.		2
1186	Information and Communication Theoretical Understanding and Treatment of Spinal Cord Injuries: State-of-The-Art and Research Challenges. IEEE Reviews in Biomedical Engineering, 2023, 16, 332-347.	18.0	9
1187	The Mind-Controlled Robotic Hand. , 2014, , 173-190.		3
1188	Flexible Electrode for Implantable Neural Devices. , 2014, , 121-156.		4
1189	Cognitively Relevant Recoding in Hippocampus: Beneficial Feedback of Ensemble Codes in a Closed Loop Paradigm. Neuromethods, 2011, , 215-239.	0.3	8
1190	EEG-Based Navigation from a Human Factors Perspective. Human-computer Interaction Series, 2010, , 71-86.	0.6	11
1191	Direct Neural Control of Anatomically Correct Robotic Hands. Human-computer Interaction Series, 2010, , 105-119.	0.6	3
1192	Can BCI Paradigms Induce Feelings of Agency and Responsibility Over Movements?. Springer Briefs in Electrical and Computer Engineering, 2019, , 103-114.	0.5	4
1193	Brainâ€"Computer Interfaces. , 2020, , 131-183.		53
1194	Intracortical Brainâ€"Machine Interfaces. , 2020, , 185-221.		5
1195	Designing Workflows for the Reproducible Analysis of Electrophysiological Data. Lecture Notes in Computer Science, 2016, , 58-72.	1.3	6
1196	Interface Design Challenge for Brain-Computer Interaction. Lecture Notes in Computer Science, 2011, , 500-506.	1.3	1
1197	Decoding Phase-Based Information from Steady-State Visual Evoked Potentials with Use of Complex-Valued Neural Network. Lecture Notes in Computer Science, 2011, , 135-143.	1.3	4
1198	Continuous Control of the DLR Light-Weight Robot III by a Human with Tetraplegia Using the BrainGate2 Neural Interface System. Springer Tracts in Advanced Robotics, 2014, , 125-136.	0.4	15
1199	Neural Interfaces as Tools for Studying Brain Plasticity. Biosystems and Biorobotics, 2014, , 89-101.	0.3	1
1200	Systems Neuroscience and Rehabilitation. , 2011, , .		3

#	Article	IF	Citations
1201	Engineering Approach for Functional Recovery Based on Body Image Adjustment by Using Biofeedback of Electrical Stimulation. , 2015, , 203-247.		2
1202	Brainâ€"Machine Interfaces for Communication in Complete Paralysis: Ethical Implications and Challenges. , 2015, , 705-724.		10
1203	Invasive Brain Machine Interface System. Advances in Experimental Medicine and Biology, 2019, 1101, 67-89.	1.6	5
1204	Brainâ€"Machine Interfaces. , 2010, , 221-225.		5
1206	A large electroencephalographic motor imagery dataset for electroencephalographic brain computer interfaces. Scientific Data, 2018, 5, 180211.	5.3	94
1207	Decoding hand kinematics from population responses in sensorimotor cortex during grasping. Journal of Neural Engineering, 2020, 17, 046035.	3.5	26
1208	Reconstruction of movement-related intracortical activity from micro-electrocorticogram array signals in monkey primary motor cortex. Journal of Neural Engineering, 2012, 9, 036006.	3.5	30
1217	A skin-inspired tactile sensor for smart prosthetics. Science Robotics, 2018, 3, .	17.6	195
1218	A taxonomy of vulnerabilities in implantable medical devices. , 2010, , .		15
1219	fMRI Analysis of Prosthetic Hand Rehabilitation Using a Brainâ€"Machine Interface. , 2012, , 219-250.		2
1220	Emerging ideas and tools to study the emergent properties of the cortical neural circuits for voluntary motor control in non-human primates. F1000Research, 2019, 8, 749.	1.6	18
1221	Robust Brain-Machine Interface Design Using Optimal Feedback Control Modeling and Adaptive Point Process Filtering. PLoS Computational Biology, 2016, 12, e1004730.	3.2	94
1222	Real-Time Control of an Articulatory-Based Speech Synthesizer for Brain Computer Interfaces. PLoS Computational Biology, 2016, 12, e1005119.	3.2	67
1223	Neural Population Dynamics during Reaching Are Better Explained by a Dynamical System than Representational Tuning. PLoS Computational Biology, 2016, 12, e1005175.	3.2	128
1224	Toward the Restoration of Hand Use to a Paralyzed Monkey: Brain-Controlled Functional Electrical Stimulation of Forearm Muscles. PLoS ONE, 2009, 4, e5924.	2.5	123
1225	High Accuracy Decoding of Movement Target Direction in Non-Human Primates Based on Common Spatial Patterns of Local Field Potentials. PLoS ONE, 2010, 5, e14384.	2.5	72
1226	A Symbiotic Brain-Machine Interface through Value-Based Decision Making. PLoS ONE, 2011, 6, e14760.	2.5	74
1227	The Illusion of Owning a Third Arm. PLoS ONE, 2011, 6, e17208.	2.5	196

#	Article	IF	Citations
1228	Continuous Three-Dimensional Control of a Virtual Helicopter Using a Motor Imagery Based Brain-Computer Interface. PLoS ONE, 2011, 6, e26322.	2.5	204
1229	Grasp Detection from Human ECoG during Natural Reach-to-Grasp Movements. PLoS ONE, 2013, 8, e54658.	2.5	40
1230	A Real-Time Brain-Machine Interface Combining Motor Target and Trajectory Intent Using an Optimal Feedback Control Design. PLoS ONE, 2013, 8, e59049.	2.5	69
1231	Decoding of Visual Attention from LFP Signals of Macaque MT. PLoS ONE, 2014, 9, e100381.	2.5	29
1232	Assessing Movement Factors in Upper Limb Kinematics Decoding from EEG Signals. PLoS ONE, 2015, 10, e0128456.	2.5	23
1233	KANSEI Analyzing by EEG. Journal of the Institute of Electrical Engineers of Japan, 2016, 136, 687-690.	0.0	5
1234	Assisted Teleoperation Strategies for Aggressively Controlling a Robot Arm with 2D Input. , 0, , .		16
1235	Autonomy Infused Teleoperation with Application to BCI Manipulation. , 0, , .		26
1236	From Novel Technology to Novel Applications: Comment on â€œAn Integrated Brain-Machine Interface Platform With Thousands of Channelsâ€•by Elon Musk and Neuralink. Journal of Medical Internet Research, 2019, 21, e16356.	4.3	41
1237	Die Erfahrung der Widerständigkeit der Welt als Wahrnehmung kausaler Kraft. , 2014, , 23-62.		3
1238	Unsupervised adaptation of brain-machine interface decoders. Frontiers in Neuroscience, 2012, 6, 164.	2.8	22
1239	A Spatio-Temporal Fractal Model for a CPS Approach to Brain-Machine-Body Interfaces. , 2016, , .		38
1240	Communication in locked-in state after brainstem stroke: a brain-computer-interface approach. Annals of Translational Medicine, 2015, 3, S29.	1.7	2
1241	Functional Electrical Stimulation Based on Interference-Driven PWM Signals for Neuro-Rehabilitation. Advances in Bioinformatics and Biomedical Engineering Book Series, 0, , 180-192.	0.4	1
1243	Decoding brain responses to pixelized images in the primary visual cortex: implications for visual cortical prostheses. Neural Regeneration Research, 2015, 10, 1622.	3.0	6
1244	Prospect of brain-machine interface in motor disabilities: The future support for multiple sclerosis patient to improve quality of life. Annals of Medical and Health Sciences Research, 2014, 4, 305.	0.8	17
1246	Bioartificial Brains and Mobile Robots. , 0, , .		1
1247	Accessing and Processing MEG Signals in Real-Time: Emerging Applications and Enabling Technologies. , 0, , .		4

#	Article	IF	Citations
1248	A synergy-based hand control is encoded in human motor cortical areas. ELife, 2016, 5, .	6.0	98
1249	Decoding gripping force based on local field potentials recorded from subthalamic nucleus in humans. ELife, 2016, 5, .	6.0	41
1250	Real-time classification of experience-related ensemble spiking patterns for closed-loop applications. ELife, 2018, 7, .	6.0	26
1251	Wireless recording from unrestrained monkeys reveals motor goal encoding beyond immediate reach in frontoparietal cortex. ELife, 2020, 9, .	6.0	35
1252	Implantable brain–computer interface for neuroprosthetic-enabled volitional hand grasp restoration in spinal cord injury. Brain Communications, 2021, 3, fcab248.	3.3	18
1253	Machine learning algorithm for decoding multiple subthalamic spike trains for speech brain–machine interfaces. Journal of Neural Engineering, 2021, 18, 066021.	3.5	5
1254	Recent advancement of electrocorticography (ECoG) electrodes for chronic neural recording/stimulation. Materials Today Communications, 2021, 29, 102853.	1.9	19
1255	Present States and Future Problems of Invasive BMI. Journal of the Society of Mechanical Engineers, 2008, 111, 916-919.	0.0	0
1256	Monkeys move robotic arm using brain power. Nature, 0, , .	27.8	0
1257	Monkeys move paralysed muscles with their minds. Nature, 0, , .	27.8	0
1258	Brain implant allows mute man to speak. Nature, 0, , .	27.8	1
1259	Brain-Computer Interaction. Lecture Notes in Computer Science, 2009, , 719-723.	1.3	0
1260	Intracortical BCIs: A Brief History of Neural Timing. The Frontiers Collection, 2009, , 203-219.	0.2	2
1261	Les interfaces Cerveau-Machine pour la palliation du handicap moteur sévère. Sciences Et Technologies Pour Le Handicap, 2009, 3, 95-121.	0.1	2
1262	MEG Virtual Channel Methods for Movement Prediction and Training. IFMBE Proceedings, 2010, , 171-174.	0.3	1
1264	Epigenetic Mechanisms of Mental Retardation. , 2011, 67, 125-146.		8
1265	Continuous Neural Decoding Method Based on General Regression Neural Network. International Journal of Digital Content Technology and Its Applications, 2010, 4, 216-221.	0.1	4
1266	Estimation of Movement by Epidural Potential Measurement. Journal of the Robotics Society of Japan, 2011, 27, 732-738.	0.1	0

#	ARTICLE	IF	CITATIONS
1268	The brain and computer: The neurosurgical interface. , 2011, 2, 79.		0
1271	A Two Dimensional Brain-Computer Interface Associated with Human Natural Motor Control. , 0, , .		0
1272	State-of-the-Art in BCI Research: BCI Award 2010. , 0, , .		3
1274	Motor output-type Brain-Machine Interface. The Brain & Neural Networks, 2012, 19, 112-117.	0.1	0
1275	Technological Trend of Brainâ€"Machine Interface. Journal of the Institute of Electrical Engineers of Japan, 2012, 132, 421-424.	0.0	0
1277	Feasibility of Error-Related Potential Detection as Novelty Detection Problem in P300 Mind Spelling. Lecture Notes in Computer Science, 2012, , 293-301.	1.3	1
1278	Quâ€™est-ce que le naturalismeÂ?. Sociologies, 0, , .	0.0	2
1280	Neurorobotics: Opening Novel Lines of Communication Between Populations of Single Neurons and External Devices. , 2013, , 153-221.		0
1281	Functional Neuroscience: Cortical Control of Limb Prosthesis. , 2013, , 1-16.		0
1282	Modification in Command Neural Signals of an Insectâ€™s Odor Source Searching Behavior on the Brain-Machine Hybrid System. Lecture Notes in Computer Science, 2013, , 167-178.	1.3	0
1283	Discrimination Analysis and Movement Decision of the Prosthetic Arm by Using Monkey ECoGs Data Associated with Self-feeding Motions. Journal of the Robotics Society of Japan, 2013, 31, 51-59.	0.1	0
1284	Brain-Machine Interfaces : Principles and Clinical Application. Japanese Journal of Neurosurgery, 2013, 22, 192-199.	0.0	0
1287	Managing Communication for People with Amyotrophic Lateral Sclerosis: The Role of the Brain-Computer Interface. Communications in Medical and Care Compunetics, 2014, , 215-235.	0.2	1
1288	A Concurrent Brain-Machine Interface for Enhanced Sequential Motor Function. Springer Briefs in Electrical and Computer Engineering, 2014, , 97-112.	0.5	1
1289	Decoding of Kinetic and Kinematic Information from Electrocorticograms in Sensorimotor Cortex: A Review. International Journal of Neurorehabilitation, 2014, 01, .	0.1	0
1290	A Learning-Based Approach to Artificial Sensory Feedback. Springer Briefs in Electrical and Computer Engineering, 2014, , 31-46.	0.5	0
1292	Human Single Unit Activity for Reach and Grasp Motor Prostheses. , 2014, , 305-326.		0
1293	Ethical Issues in Brainâ€"Computer Interface Research and Systems for Motor Control. , 2015, , 725-740.		3

#	ARTICLE	IF	CITATIONS
1294	Robust articulatory speech synthesis using deep neural networks for BCI applications. , 0, , .		12
1296	The current state of the brainâ€"computer interface problem. Zhurnal Voprosy Nejrokhirurgii Imeni N N Burdenko, 2015, 79, 97.	0.2	0
1297	Brain-Controlled Selection of Objects Combined with Autonomous Robotic Grasping. Springer Series in Computational Neuroscience, 2015, , 65-77.	0.3	0
1298	Multi-channel Neural Signal Recording System toward Brain Science and Clinical Applications. The Brain & Neural Networks, 2015, 22, 170-180.	0.1	0
1299	Implantable Neural Sensors for Brain Machine Interface. KAIST Research Series, 2015, , 51-73.	1.5	0
1300	Brainâ€"Machine Interface (BMI) as a Tool for Understanding Humanâ€"Machine Cooperation. , 2015, , 138-160.		1
1303	A Review of Research Trends on Brain Computer Interface(BCI) Games using Brain Wave. Journal of Digital Convergence, 2015, 13, 177-184.	0.1	3
1305	Medical Robotics. , 2015, , 3-35.		0
1306	Recent Approaches of Magnetic Measurement of Brain Signals for Brainâ€"Computer Interface. Advances in Cognitive Neurodynamics, 2016, , 405-411.	0.1	0
1307	What the surrogate touches: The haptic threshold of transhuman embodiment. Confero: Essays on Education, Philosophy and Politics, 2016, 4, 77-96.	0.4	1
1308	Physik, Biologie und Mathematik: Grundbegriffe, Skalen und AllgemeingÃ¼ltigkeit. , 2017, , 209-229.		0
1310	Neural Recording System for Brain-Machine Interface. Journal of the Japan Society for Precision Engineering, 2017, 83, 996-999.	0.1	0
1315	Brain-Machine Interfaces. , 2019, , 1-4.		0
1320	Research in Biocompatible Electroless Gold Plating. Hyomen Gijutsu/Journal of the Surface Finishing Society of Japan, 2019, 70, 461-465.	0.2	1
1323	The Long-term Depression of Brain Activity Induced by Electrical Stimulation of Cerebral Cortex. , 2019, , .		1
1327	Beyin Makine ArayÃ¼zÃ¼ kullanÄ±mÄ±nda YaÅŸÄ±n Etkisi. MuÅŸ Alparslan Ãœniversitesi Fen Bilimleri Dergisi, 2019, 7, 683-687.	0.2	0
1328	Decoding of standard and non-standard visuomotor associations from parietal cortex. Journal of Neural Engineering, 2020, 17, 046027.	3.5	4
1329	Ensemble Classifiers for Brain Cyborgs. , 2020, , .		0

#	Article	IF	Citations
1330	Mechanism Research and Application of Brain-computer Interface. , 2020, , .		0
1331	Introduction of brain computer interface to neurologists. Annals of Clinical Neurophysiology, 2021, 23, 92-98.	0.2	1
1332	The neural mechanisms of manual dexterity. Nature Reviews Neuroscience, 2021, 22, 741-757.	10.2	73
1333	Cortical Control of Virtual Self-Motion Using Task-Specific Subspaces. Journal of Neuroscience, 2022, 42, 220-239.	3.6	10
1334	Microelectrode Recording in Neurosurgical Patients. , 2020, , 93-106.		0
1335	Intracortical Electrodes. , 2020, , 67-94.		0
1336	Restoring Functional Reach-to-Grasp in a Person with Chronic Tetraplegia Using Implanted Functional Electrical Stimulation and Intracortical Brain-Computer Interfaces. Springer Briefs in Electrical and Computer Engineering, 2020, , 35-45.	0.5	0
1337	Robust neural decoding by kernel regression with Siamese representation learning. Journal of Neural Engineering, 2021, 18, 056062.	3.5	6
1338	Orthonormal Wavelet Transform for Efficient Feature Extraction for Sensory-Motor Imagery Electroencephalogram Brainâ€"Computer Interface. Advances in Intelligent Systems and Computing, 2021, , 611-622.	0.6	1
1339	A Biomimetic Adaptive Algorithm and Micropower Circuit Architecture for Implantable Neural Decoders. , 0, , 216-254.		1
1341	Long-term in-vivo recording performance of flexible penetrating microelectrode arrays. Journal of Neural Engineering, 2021, 18, 066018.	3.5	10
1342	Neurochat: design of brain computer interface system based on implantable electrode. , 2021, , .		0
1343	Rapid adaptation of brainâ€"computer interfaces to new neuronal ensembles or participants via generative modelling. Nature Biomedical Engineering, 2023, 7, 546-558.	22.5	15
1345	Quantitative Modeling on Nonstationary Neural Spikes: From Reinforcement Learning to Point Process. , 2021, , 1-60.		1
1346	A self-powered wearable body-detecting/brain-stimulating system for improving sports endurance performance. Nano Energy, 2022, 93, 106851.	16.0	16
1347	Neural Decoding Based on Active Learning for Intracortical Brain-Machine Interfaces. , 2020, , .		0
1348	Estimation of Noise Standard Deviation Using an Otsu-Based Approach in Extracellular Neural Recordings. , 2020, , .		1
1349	Neurointerface implemented with Oscillator Motifs. , 2021, , .		4

#	Article	IF	Citations
1350	A 16-Channel Fully Configurable Neural SoC With 1.52 muW/Ch Signal Acquisition, 2.79 muW/Ch Real-Time Spike Classifier, and 1.79 TOPS/W Deep Neural Network Accelerator in 22 nm FDSOI. IEEE Transactions on Biomedical Circuits and Systems, 2022, 16, 94-107.	4.0	15
1351	Analysis of Regularized Poisson GLM Spike-Train Modeling. Journal of Physics: Conference Series, 2022, 2173, 012019.	0.4	0
1353	Modeling and Analysis of Spike-Train Based on Poisson-GML. Journal of Physics: Conference Series, 2022, 2173, 012015.	0.4	0
1354	Conductive Polymer Enabled Biostable Liquid Metal Electrodes for Bioelectronic Applications. Advanced Healthcare Materials, 2022, 11, e2102382.	7.6	23
1355	Towards in vivo neural decoding. Biomedical Engineering Letters, 2022, 12, 185-195.	4.1	2
1357	Effective Evaluation of Finger Sensation Evoking by Non-Invasive Stimulation for Sensory Function Recovery in Transradial Amputees. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2022, 30, 519-528.	4.9	12
1358	Studies to Overcome Brainâ€"Computer Interface Challenges. Applied Sciences (Switzerland), 2022, 12, 2598.	2.5	9
1359	From Parametric Representation to Dynamical System: Shifting Views of the Motor Cortex in Motor Control. Neuroscience Bulletin, 2022, 38, 796-808.	2.9	12
1360	Far-field electric potentials provide access to the output from the spinal cord from wrist-mounted sensors. Journal of Neural Engineering, 2022, 19, 026031.	3.5	8
1361	Ionic communication for implantable bioelectronics. Science Advances, 2022, 8, eabm7851.	10.3	25
1362	A behavioral paradigm for cortical control of a robotic actuator by freely moving rats in a one-dimensional two-target reaching task. Journal of Neuroscience Methods, 2022, 373, 109555.	2.5	1
1363	Sleep staging of mouse based on Neurochat implantable intelligent control system. , 2021, , .		0
1364	Dimensionality Reduction of Local Field Potential Features with Convolution Neural Network in Neural Decoding: A Pilot Study. , 2021, 2021, 1047-1050.		0
1365	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
1366	Continuous 2D trajectory decoding from attempted movement: across-session performance in able-bodied and feasibility in a spinal cord injured participant. Journal of Neural Engineering, 2022, 19, 036005.	3.5	7
1377	A Power-Efficient Brain-Machine Interface System With a Sub-mw Feature Extraction and Decoding ASIC Demonstrated in Nonhuman Primates. IEEE Transactions on Biomedical Circuits and Systems, 2022, 16, 395-408.	4.0	6
1380	Restoration of complex movement in the paralyzed upper limb. Journal of Neural Engineering, 2022, 19, 046002.	3.5	7
1381	Intracranial brain-computer interface spelling using localized visual motion response. NeuroImage, 2022, 258, 119363.	4.2	4

#	ARTICLE	IF	CITATIONS
1383	Time stability and connectivity analysis with an intracortical 96-channel microelectrode array inserted in human visual cortex. Journal of Neural Engineering, 2022, 19, 045001.	3.5	3
1384	A hybrid autoencoder framework of dimensionality reduction for brain-computer interface decoding. Computers in Biology and Medicine, 2022, 148, 105871.	7.0	3
1385	è„æœºæŽ¥å£—è„'ä¿¡æ•è°»å•ä¸Žè„æ´»åŠ¨ƒæŽ§æ€. Chinese Science Bulletin, 2022, , .	0.7	0
1387	An artificial neuromorphic somatosensory system with spatio-temporal tactile perception and feedback functions. Npj Flexible Electronics, 2022, 6, .	10.7	18
1388	Cluster Kernel Reinforcement Learning-based Kalman Filter for Three-Lever Discrimination Task in Brain-Machine Interface. , 2022, , .		1
1389	Information sparseness in cortical microelectrode channels while decoding movement direction using an artificial neural network. , 2022, , .		0
1390	Instant disembodiment of virtual body parts. Attention, Perception, and Psychophysics, 0, , .	1.3	0
1391	Beyond the brain-computer interface: Decoding brain activity as a tool to understand neuronal mechanisms subtending cognition and behavior. Frontiers in Neuroscience, 0, 16, .	2.8	3
1392	Clinical neuroscience and neurotechnology: An amazing symbiosis. IScience, 2022, 25, 105124.	4.1	3
1393	Dual sensing signal decoupling based on tellurium anisotropy for VR interaction and neuro-reflex system application. Nature Communications, 2022, 13, .	12.8	63
1394	In-vivo recording of sensory signals from peripheral nerves using flexible 3D neural electrodes. Micro and Nano Systems Letters, 2022, 10, .	3.7	0
1395	La restauration idéologique des amputés de guerre dans les pratiques de réinsertion par le sport après les guerres en Irak et en Afghanistan en 2004-2010. , 2018, , 91-102.		0
1396	EEG- and EMG-Driven Poststroke Rehabilitation: A Review. IEEE Sensors Journal, 2022, 22, 23649-23660.	4.7	13
1397	The first half century of industrial robot: 50 years of robotic developments. Industrial Robot, 2023, 50, 1-10.	2.1	2
1399	Design, Manufacture and Control of the prosthetic Hand with 3D Printer. , 2022, , .		0
1400	Bibliometric analysis on Brain-computer interfaces in a 30-year period. Applied Intelligence, 2023, 53, 16205-16225.	5.3	2
1401	Neuroprosthetics: from sensorimotor to cognitive disorders. Communications Biology, 2023, 6, .	4.4	19
1402	Modulating Brain Activity with Invasive Brain–Computer Interface: A Narrative Review. Brain Sciences, 2023, 13, 134.	2.3	6

#	Article	IF	Citations
1405	Brain-Machine Interfaces: From Restoring Sensorimotor Control to Augmenting Cognition. , 2023, , 1343-1380.		0
1406	Artificial Sensory Feedback to the Brain: Somatosensory Feedback for Neural Devices and BCI. , 2023, , 1261-1283.		0
1407	Neural Encoding and Decoding. , 2023, , 2503-2526.		0
1408	Towards a Wireless Implantable Brain-Machine Interface for Locomotion Control. , 2023, , 1003-1022.		0
1409	Applied Exoskeleton Technology: A Comprehensive Review of Physical and Cognitive Human–Robot Interaction. IEEE Transactions on Cognitive and Developmental Systems, 2023, 15, 1102-1122.	3.8	2
1410	Design Considerations for Implantable Neural Circuits and Systems. , 2023, , 695-719.		0
1411	Quantitative Modeling on Nonstationary Neural Spikes: From Reinforcement Learning to Point Process. , 2023, , 2555-2614.		0
1412	Design Parameters and Human Biocompatibility Assessment Protocols for Organic Semiconducting Neural Interfaces: Toward a Printed Artificial Retina with Color Vision. Advanced Materials Interfaces, 2023, 10, .	3.7	0
1413	Autonomous grasping of 3-D objects by a vision-actuated robot arm using Brain–Computer Interface. Biomedical Signal Processing and Control, 2023, 84, 104765.	5.7	1
1414	Human single neuron recordings. , 2024, , .		0
1415	Cortical reorganization in the adult primary sensorimotor cortex. , 2024, , .		0
1416	Brain Co-processors: Using AI to Restore and Augment Brain Function. , 2023, , 1225-1260.		1
1417	Intracortical Hindlimb Brain–Computer Interface Systems: A Systematic Review. IEEE Access, 2023, 11, 28119-28139.	4.2	1
1418	Flexible intentions: An Active Inference theory. Frontiers in Computational Neuroscience, 0, 17, .	2.1	7
1419	Prosthetic Arm: Prototype Design. , 2022, , .		0
1420	Brain-Computer Interface. , 2023, , 223-248.		1
1422	Review on Electrospun Conductive Polymer Composites Strain Sensors. Advanced Materials Technologies, 2023, 8, .	5.8	11
1423	The touch in action: exploring sensorimotor interactions with motor imagery. Cerebral Cortex, 2023, 33, 8382-8390.	2.9	1

#	ARTICLE	IF	CITATIONS
1425	Reconfigurable Soft Pneumatic Actuators Using Extensible Fabric-Based Skins. Soft Robotics, 0, , .	8.0	1
1427	Brain Co-processors: Ethical and Social Implications. Advances in Neuroethics, 2023, , 169-185.	0.3	0
1428	Partitioned Temporal Dithering for Efficient Epiretinal Electrical Stimulation. , 2023, , .		1
1429	The influence of non-stationarity of spike signals on decoding performance in intracortical brain-computer interface: a simulation study. Frontiers in Computational Neuroscience, 0, 17, .	2.1	0
1430	Affective Brainâ€"Computer Interfaces (aBCIs): A Tutorial. Proceedings of the IEEE, 2023, 111, 1314-1332.	21.3	5
1432	The impact of task context on predicting finger movements in a brain-machine interface. ELife, 0, 12, .	6.0	0
1433	Body-tool integration: past, present, and future. , 2023, , 131-150.		0
1435	Bioresorbable Insertion Aids for Brain Implantable Flexible Probes: A Comparative Study on Silk Fibroin, Alginate, and Disaccharides. Advanced NanoBiomed Research, 0, , .	3.6	0
1436	Cognitive neuroscience and robotics: Advancements and future research directions. Robotics and Computer-Integrated Manufacturing, 2024, 85, 102610.	9.9	6
1437	Shared Three-Dimensional Robotic Arm Control Based on Asynchronous BCI and Computer Vision. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2023, 31, 3163-3175.	4.9	2
1438	Enhancing Prediction of Forelimb Movement Trajectory through a Calibrating-Feedback Paradigm Incorporating RAT Primary Motor and Agranular Cortical Ensemble Activity in the Goal-Directed Reaching Task. International Journal of Neural Systems, 0, , .	5.2	1
1439	The concept of â€œinteractionâ€•in debates on humanâ€"machine interaction. Humanities and Social Sciences Communications, 2023, 10, .	2.9	0
1440	Flexible multichannel electrodes for acute recording in nonhuman primates. Microsystems and Nanoengineering, 2023, 9, .	7.0	2
1441	How Does Artificial Intelligence Contribute to iEEG Research?. Studies in Neuroscience, Psychology and Behavioral Economics, 2023, , 761-802.	0.3	2
1442	Global trends and current status of amputation: Bibliometrics and visual analysis of publications from 1999 to 2021. Prosthetics and Orthotics International, 2023, , .	1.0	0
1443	Simplified Closed-Loop Thermal Feedback System in Flexible form Factor for Prosthesis. , 2023, , .		0
1444	Intracortical Brain-machine Interface for Restoring Sensory Motor Function: Progress and Challenges. , 2023, 3, 31-38.		0
1445	Recent progress in brain signal monitoring and neuromodulation technologies. Chinese Science Bulletin, 2023, , .	0.7	1

#	ARTICLE	IF	CITATIONS
1446	Evoking and Evaluation of Non-invasive Sensory Feedback for Applications in Neural Rehabilitation: A Pilot Study. , 2023, , .		0
1448	Continuous Gesture Control of a Robot Arm: Performance Is Robust to a Variety of Hand-to-Robot Maps. IEEE Transactions on Biomedical Engineering, 2024, 71, 944-953.	4.2	0
1449	Controlling the Number of Spikes in FitzHughâ€"Nagumo System Under Periodic Forcing. , 2023, , .		0
1450	An Ultraflexible Electrode Array for Largeâ€Scale Chronic Recording in the Nonhuman Primate Brain. Advanced Science, 2023, 10, .	11.2	0
1451	Advancing the interfacing performances of chronically implantable neural probes in the era of CMOS neuroelectronics. Frontiers in Neuroscience, 0, 17, .	2.8	0
1452	Boosting brainâ€"computer interfaces with functional electrical stimulation: potential applications in people with locked-in syndrome. Journal of NeuroEngineering and Rehabilitation, 2023, 20, .	4.6	0
1453	Volitional activation of remote place representations with a hippocampal brainâ€"machine interface. Science, 2023, 382, 566-573.	12.6	4
1454	Flexible neural recording electrodes based on reduced graphene oxide interfaces. Chemical Engineering Journal, 2023, 478, 147067.	12.7	0
1456	Decoding the Spike-Band Subthreshold Motor Cortical Activity. Journal of Motor Behavior, 2024, 56, 161-183.	0.9	0
1457	A bimodal registration and attention method for speed imagery brain-computer interface. , 2023, 2, .		0
1458	A Perspective on Prosthetic Hands Control: From the Brain to the Hand. Prosthesis, 2023, 5, 1184-1205.	2.9	0
1459	Rhesus monkeys learn to control a directional-key inspired brain machine interface via bio-feedback. PLoS ONE, 2024, 19, e0286742.	2.5	0
1460	Brain control of bimanual movement enabled by recurrent neural networks. Scientific Reports, 2024, 14, .	3.3	1
1461	The Concept ofÂHippocampal Activity Restoration Using Artificial Intelligence Technologies. Communications in Computer and Information Science, 2024, , 240-252.	0.5	0
1462	Brain-Controlled Assistive Robotics and Prosthetics. , 0, , 129-147.		0
1463	Role of machine learning and deep learning techniques in EEG-based BCI emotion recognition system: a review. Artificial Intelligence Review, 2024, 57, .	15.7	0
1464	A Survey on Robotic Prosthetics: Neuroprosthetics, Soft Actuators, and Control Strategies. ACM Computing Surveys, 2024, 56, 1-44.	23.0	0
1466	Continuous Decoding of Movement Trajectory During Unimanual Movement Using Bilateral Motor Cortex Signals. , 2023, , .		0

#	Article	IF	Citations
1467	Emerging Frontiers in Human–Robot Interaction. Journal of Intelligent and Robotic Systems: Theory and Applications, 2024, 110, .	3.4	0
1468	Planar amorphous silicon carbide microelectrode arrays for chronic recording in rat motor cortex. Biomaterials, 2024, 308, 122543.	11.4	0