

Alireza Gharabaghi

List of Publications by Year in descending order

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Version: 2024-02-01

88
papers

3,437
citations

145106

33
h-index

190340

53
g-index

90
all docs

90
docs citations

90
times ranked

4319
citing authors

#	ARTICLE	IF	CITATIONS
1	Evaluation of signal analysis algorithms for ipsilateral motor-evoked potentials induced by transcranial magnetic stimulation. <i>Journal of Neural Engineering</i> , 2022, , .	1.8	0
2	Long-term effects of pallidal and thalamic deep brain stimulation in myoclonus dystonia. <i>European Journal of Neurology</i> , 2021, 28, 1566-1573.	1.7	12
3	Peripheral Electrical Stimulation Modulates Cortical Beta-Band Activity. <i>Frontiers in Neuroscience</i> , 2021, 15, 632234.	1.4	9
4	People With Parkinson's Disease and Freezing of Gait Show Abnormal Low Frequency Activity of Antagonistic Leg Muscles. <i>Frontiers in Human Neuroscience</i> , 2021, 15, 733067.	1.0	0
5	Brain State-dependent Gain Modulation of Corticospinal Output in the Active Motor System. <i>Cerebral Cortex</i> , 2020, 30, 371-381.	1.6	22
6	State-Dependent Gain Modulation of Spinal Motor Output. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 523866.	2.0	2
7	Online Mapping With the Deep Brain Stimulation Lead: A Novel Targeting Tool in Parkinson's Disease. <i>Movement Disorders</i> , 2020, 35, 1574-1586.	2.2	23
8	Consensus on the reporting and experimental design of clinical and cognitive-behavioural neurofeedback studies (CRED-nf checklist). <i>Brain</i> , 2020, 143, 1674-1685.	3.7	188
9	Brain-Machine Neurofeedback: Robotics or Electrical Stimulation?. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 639.	2.0	4
10	Transitions between repetitive tapping and upper limb freezing show impaired movement-related beta band modulation. <i>Clinical Neurophysiology</i> , 2020, 131, 2499-2507.	0.7	15
11	Clinical and Kinematic Correlates of Favorable Gait Outcomes From Subthalamic Stimulation. <i>Frontiers in Neurology</i> , 2020, 11, 212.	1.1	8
12	Evidence-Based Decision Aid for Patients With Parkinson Disease: Protocol for Interview Study, Online Survey, and Two Randomized Controlled Trials. <i>JMIR Research Protocols</i> , 2020, 9, e17482.	0.5	2
13	Anticipatory postural adjustments are modulated by substantia nigra stimulation in people with Parkinson's disease and freezing of gait. <i>Parkinsonism and Related Disorders</i> , 2019, 66, 34-39.	1.1	17
14	Anodal tDCS modulates cortical activity and synchronization in Parkinson's disease depending on motor processing. <i>NeuroImage: Clinical</i> , 2019, 22, 101689.	1.4	13
15	Combined endogenous and exogenous disinhibition of intracortical circuits augments plasticity induction in the human motor cortex. <i>Brain Stimulation</i> , 2019, 12, 1027-1040.	0.7	3
16	Different oscillatory entrainment of cortical networks during motor imagery and neurofeedback in right and left handers. <i>NeuroImage</i> , 2019, 195, 190-202.	2.1	13
17	Development of evidence-based quality indicators for deep brain stimulation in patients with Parkinson's disease and first year experience of implementation of a nation-wide registry. <i>Parkinsonism and Related Disorders</i> , 2019, 60, 3-9.	1.1	7
18	Deep brain stimulation of the substantia nigra for freezing of gait in Parkinson's disease: is it about stimulation frequency?. <i>Parkinsonism and Related Disorders</i> , 2019, 63, 229-230.	1.1	9

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19	State-dependent brain stimulation: Power or phase?. <i>Brain Stimulation</i> , 2019, 12, 296-299.	0.7	24
20	Distinct Beta-band Oscillatory Circuits Underlie Corticospinal Gain Modulation. <i>Cerebral Cortex</i> , 2018, 28, 1502-1515.	1.6	54
21	Recruitment of Additional Corticospinal Pathways in the Human Brain with State-Dependent Paired Associative Stimulation. <i>Journal of Neuroscience</i> , 2018, 38, 1396-1407.	1.7	36
22	Directional communication during movement execution interferes with tremor in Parkinson's disease. <i>Movement Disorders</i> , 2018, 33, 251-261.	2.2	20
23	Behavioural outcomes of subthalamic stimulation and medical therapy versus medical therapy alone for Parkinson's disease with early motor complications (EARLYSTIM trial): secondary analysis of an open-label randomised trial. <i>Lancet Neurology</i> , The, 2018, 17, 223-231.	4.9	105
24	Reaction Time Predicts Brain-Computer Interface Aptitude. <i>IEEE Journal of Translational Engineering in Health and Medicine</i> , 2018, 6, 1-11.	2.2	8
25	Long-Term Effect of GPi-DBS in a Patient With Generalized Dystonia Due to GLUT1 Deficiency Syndrome. <i>Frontiers in Neurology</i> , 2018, 9, 381.	1.1	3
26	Extended enhancement of corticospinal connectivity with concurrent cortical and peripheral stimulation controlled by sensorimotor desynchronization. <i>Brain Stimulation</i> , 2018, 11, 1331-1335.	0.7	15
27	Plasticity of premotor cortico-muscular coherence in severely impaired stroke patients with hand paralysis. <i>NeuroImage: Clinical</i> , 2017, 14, 726-733.	1.4	68
28	Cumulative effects of single TMS pulses during beta-tACS are stimulation intensity-dependent. <i>Brain Stimulation</i> , 2017, 10, 1055-1060.	0.7	15
29	Physiological and behavioral effects of β^2 -tACS on brain self-regulation in chronic stroke. <i>Brain Stimulation</i> , 2017, 10, 251-259.	0.7	40
30	Proprioceptive Feedback Facilitates Motor Imagery-Related Operant Learning of Sensorimotor β^2 -Band Modulation. <i>Frontiers in Neuroscience</i> , 2017, 11, 60.	1.4	33
31	Effects of Subthalamic and Nigral Stimulation on Gait Kinematics in Parkinson's Disease. <i>Frontiers in Neurology</i> , 2017, 8, 543.	1.1	29
32	Constraints and Adaptation of Closed-Loop Neuroprosthetics for Functional Restoration. <i>Frontiers in Neuroscience</i> , 2017, 11, 111.	1.4	12
33	Neuromuscular Plasticity: Disentangling Stable and Variable Motor Maps in the Human Sensorimotor Cortex. <i>Neural Plasticity</i> , 2016, 2016, 1-13.	1.0	33
34	Brain State-Dependent Closed-Loop Modulation of Paired Associative Stimulation Controlled by Sensorimotor Desynchronization. <i>Frontiers in Cellular Neuroscience</i> , 2016, 10, 115.	1.8	35
35	Combining TMS and tACS for Closed-Loop Phase-Dependent Modulation of Corticospinal Excitability: A Feasibility Study. <i>Frontiers in Cellular Neuroscience</i> , 2016, 10, 143.	1.8	62
36	Probing Corticospinal Recruitment Patterns and Functional Synergies with Transcranial Magnetic Stimulation. <i>Frontiers in Cellular Neuroscience</i> , 2016, 10, 175.	1.8	25

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37	Detecting a Cortical Fingerprint of Parkinson's Disease for Closed-Loop Neuromodulation. <i>Frontiers in Neuroscience</i> , 2016, 10, 110.	1.4	11
38	Compensation or Restoration: Closed-Loop Feedback of Movement Quality for Assisted Reach-to-Grasp Exercises with a Multi-Joint Arm Exoskeleton. <i>Frontiers in Neuroscience</i> , 2016, 10, 280.	1.4	33
39	Closed-Loop Neuroprosthesis for Reach-to-Grasp Assistance: Combining Adaptive Multi-channel Neuromuscular Stimulation with a Multi-joint Arm Exoskeleton. <i>Frontiers in Neuroscience</i> , 2016, 10, 284.	1.4	28
40	Hybrid Neuroprosthesis for the Upper Limb: Combining Brain-Controlled Neuromuscular Stimulation with a Multi-Joint Arm Exoskeleton. <i>Frontiers in Neuroscience</i> , 2016, 10, 367.	1.4	42
41	What Turns Assistive into Restorative Brain-Machine Interfaces?. <i>Frontiers in Neuroscience</i> , 2016, 10, 456.	1.4	36
42	Closed-Loop Task Difficulty Adaptation during Virtual Reality Reach-to-Grasp Training Assisted with an Exoskeleton for Stroke Rehabilitation. <i>Frontiers in Neuroscience</i> , 2016, 10, 518.	1.4	63
43	<scp>A</scp>lpha-synuclein gene variants may predict neurostimulation outcome. <i>Movement Disorders</i> , 2016, 31, 601-603.	2.2	15
44	Closed-loop adaptation of neurofeedback based on mental effort facilitates reinforcement learning of brain self-regulation. <i>Clinical Neurophysiology</i> , 2016, 127, 3156-3164.	0.7	29
45	What is the optimal task difficulty for reinforcement learning of brain self-regulation?. <i>Clinical Neurophysiology</i> , 2016, 127, 3033-3041.	0.7	26
46	Multi-contact functional electrical stimulation for hand opening: electrophysiologically driven identification of the optimal stimulation site. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2016, 13, 22.	2.4	33
47	Enhanced motor learning with bilateral transcranial direct current stimulation: Impact of polarity or current flow direction?. <i>Clinical Neurophysiology</i> , 2016, 127, 2119-2126.	0.7	44
48	Cortical correlates of susceptibility to upper limb freezing in Parkinson's disease. <i>Clinical Neurophysiology</i> , 2016, 127, 2386-2393.	0.7	22
49	Brain State-Dependent Transcranial Magnetic Closed-Loop Stimulation Controlled by Sensorimotor Desynchronization Induces Robust Increase of Corticospinal Excitability. <i>Brain Stimulation</i> , 2016, 9, 415-424.	0.7	91
50	An Unsupervised Online Spike-Sorting Framework. <i>International Journal of Neural Systems</i> , 2016, 26, 1550042.	3.2	24
51	Comparing Methods for Decoding Movement Trajectory from ECoG in Chronic Stroke Patients. <i>Biosystems and Biorobotics</i> , 2016, , 125-139.	0.2	6
52	Brain-robot interface driven plasticity: Distributed modulation of corticospinal excitability. <i>NeuroImage</i> , 2016, 125, 522-532.	2.1	67
53	Neuromuscular correlates of subthalamic stimulation and upper limb freezing in Parkinson's disease. <i>Clinical Neurophysiology</i> , 2016, 127, 610-620.	0.7	21
54	Self-regulation of circumscribed brain activity modulates spatially selective and frequency specific connectivity of distributed resting state networks. <i>Frontiers in Behavioral Neuroscience</i> , 2015, 9, 181.	1.0	44

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55	Phase-dependent modulation as a novel approach for therapeutic brain stimulation. <i>Frontiers in Computational Neuroscience</i> , 2015, 9, 26.	1.2	22
56	Reinforcement learning of self-regulated $\hat{\Gamma}^2$ -oscillations for motor restoration in chronic stroke. <i>Frontiers in Human Neuroscience</i> , 2015, 9, 391.	1.0	55
57	Brain state-dependent robotic reaching movement with a multi-joint arm exoskeleton: combining brain-machine interfacing and robotic rehabilitation. <i>Frontiers in Human Neuroscience</i> , 2015, 9, 564.	1.0	62
58	Reinforcement learning for adaptive threshold control of restorative brain-computer interfaces: a Bayesian simulation. <i>Frontiers in Neuroscience</i> , 2015, 9, 36.	1.4	49
59	Estimating cognitive load during self-regulation of brain activity and neurofeedback with therapeutic brain-computer interfaces. <i>Frontiers in Behavioral Neuroscience</i> , 2015, 9, 21.	1.0	37
60	Projecting Navigated TMS Sites on the Gyral Anatomy Decreases Inter-subject Variability of Cortical Motor Maps. <i>Brain Stimulation</i> , 2015, 8, 831-837.	0.7	37
61	Oscillatory entrainment of the motor cortical network during motor imagery is modulated by the feedback modality. <i>NeuroImage</i> , 2015, 111, 1-11.	2.1	84
62	Subthalamic stimulation modulates cortical motor network activity and synchronization in Parkinson's disease. <i>Brain</i> , 2015, 138, 679-693.	3.7	66
63	Activity-dependent brain stimulation and robot-assisted movements for use-dependent plasticity. <i>Clinical Neurophysiology</i> , 2015, 126, 853-854.	0.7	13
64	Predicting workload profiles of brain-robot interface and electromyographic neurofeedback with cortical resting-state networks: personal trait or task-specific challenge?. <i>Journal of Neural Engineering</i> , 2015, 12, 046029.	1.8	24
65	Long-term outcome of deep brain stimulation in fragile X-associated tremor/ataxia syndrome. <i>Parkinsonism and Related Disorders</i> , 2015, 21, 310-313.	1.1	26
66	Bridging the gap between motor imagery and motor execution with a brain-robot interface. <i>NeuroImage</i> , 2015, 108, 319-327.	2.1	81
67	Learned self-regulation of the lesioned brain with epidural electrocorticography. <i>Frontiers in Behavioral Neuroscience</i> , 2014, 8, 429.	1.0	36
68	Epidural electrocorticography of phantom hand movement following long-term upper-limb amputation. <i>Frontiers in Human Neuroscience</i> , 2014, 8, 285.	1.0	22
69	Epidural electrocorticography for monitoring of arousal in locked-in state. <i>Frontiers in Human Neuroscience</i> , 2014, 8, 861.	1.0	8
70	Neurosensory Effects of Transcranial Alternating Current Stimulation. <i>Brain Stimulation</i> , 2014, 7, 823-831.	0.7	44
71	The subthalamic nucleus modulates the early phase of probabilistic classification learning. <i>Experimental Brain Research</i> , 2014, 232, 2255-2262.	0.7	2
72	From assistance towards restoration with epidural brain-computer interfacing. <i>Restorative Neurology and Neuroscience</i> , 2014, 32, 517-525.	0.4	35

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73	Lateralized alpha-band cortical networks regulate volitional modulation of beta-band sensorimotor oscillations. <i>NeuroImage</i> , 2014, 87, 147-153.	2.1	55
74	Coupling brain-machine interfaces with cortical stimulation for brain-state dependent stimulation: enhancing motor cortex excitability for neurorehabilitation. <i>Frontiers in Human Neuroscience</i> , 2014, 8, 122.	1.0	108
75	Electrical Stimulation of the Human Homolog of the Medial Superior Temporal Area Induces Visual Motion Blindness. <i>Journal of Neuroscience</i> , 2013, 33, 18288-18297.	1.7	18
76	Nigral stimulation for resistant axial motor impairment in Parkinson's disease? A randomized controlled trial. <i>Brain</i> , 2013, 136, 2098-2108.	3.7	186
77	Long-term follow-up of subthalamic nucleus stimulation in glucocerebrosidase-associated Parkinson's disease. <i>Journal of Neurology</i> , 2012, 259, 1970-1972.	1.8	24
78	Biological motion processing: The left cerebellum communicates with the right superior temporal sulcus. <i>NeuroImage</i> , 2012, 59, 2824-2830.	2.1	111
79	Coupling BCI and cortical stimulation for brain-state-dependent stimulation: methods for spectral estimation in the presence of stimulation after-effects. <i>Frontiers in Neural Circuits</i> , 2012, 6, 87.	1.4	47
80	Task-specific activity and connectivity within the mentalizing network during emotion and intention mentalizing. <i>NeuroImage</i> , 2011, 55, 1899-1911.	2.1	88
81	Combined stimulation of the substantia nigra pars reticulata and the subthalamic nucleus is effective in hypokinetic gait disturbance in Parkinson's disease. <i>Journal of Neurology</i> , 2011, 258, 1183-1185.	1.8	46
82	Combined STN/SNr-DBS for the treatment of refractory gait disturbances in Parkinson's disease: study protocol for a randomized controlled trial. <i>Trials</i> , 2011, 12, 222.	0.7	18
83	Pallidal and thalamic deep brain stimulation in myoclonus/dystonia. <i>Movement Disorders</i> , 2010, 25, 1733-1743.	2.2	131
84	Resection of malignant brain tumors in eloquent cortical areas: a new multimodal approach combining 5-aminolevulinic acid and intraoperative monitoring. <i>Journal of Neurosurgery</i> , 2010, 113, 352-357.	0.9	117
85	Cerebellar Engagement in an Action Observation Network. <i>Cerebral Cortex</i> , 2010, 20, 486-491.	1.6	76
86	Perisylvian white matter connectivity in the human right hemisphere. <i>BMC Neuroscience</i> , 2009, 10, 15.	0.8	37
87	Applicability of an Electrosurgical Device Based on Electromagnetics in Neurosurgery. <i>Operative Neurosurgery</i> , 2006, 59, ONS-142-ONS-145.	0.4	2
88	The role of the right superior temporal gyrus in visual search—Insights from intraoperative electrical stimulation. <i>Neuropsychologia</i> , 2006, 44, 2578-2581.	0.7	69