Alireza Gharabaghi

List of Publications by Year
in descending order

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88	3,437	126907	168389
papers	citations	33 h-index	53 g-index

90	90	90	3881
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Consensus on the reporting and experimental design of clinical and cognitive-behavioural neurofeedback studies (CRED-nf checklist). Brain, 2020, 143, 1674-1685.	7.6	188
2	Nigral stimulation for resistant axial motor impairment in Parkinsonâ€™s disease? A randomized controlled trial. Brain, 2013, 136, 2098-2108.	7.6	186
3	Pallidal and thalamic deep brain stimulation in myoclonusâ€dystonia. Movement Disorders, 2010, 25, 1733-1743.	3.9	131
4	Resection of malignant brain tumors in eloquent cortical areas: a new multimodal approach combining 5-aminolevulinic acid and intraoperative monitoring. Journal of Neurosurgery, 2010, 113, 352-357.	1.6	117
5	Biological motion processing: The left cerebellum communicates with the right superior temporal sulcus. NeuroImage, 2012, 59, 2824-2830.	4.2	111
6	Coupling brain-machine interfaces with cortical stimulation for brain-state dependent stimulation: enhancing motor cortex excitability for neurorehabilitation. Frontiers in Human Neuroscience, 2014, 8, 122.	2.0	108
7	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. Lancet Neurology, The, 2018, 17, 223-231.	10.2	105
8	Brain State-Dependent Transcranial Magnetic Closed-Loop Stimulation Controlled by Sensorimotor Desynchronization Induces Robust Increase of Corticospinal Excitability. Brain Stimulation, 2016, 9, 415-424.	1.6	91
9	Task-specific activity and connectivity within the mentalizing network during emotion and intention mentalizing. NeuroImage, 2011, 55, 1899-1911.	4.2	88
10	Oscillatory entrainment of the motor cortical network during motor imagery is modulated by the feedback modality. NeuroImage, 2015, 111, 1-11.	4.2	84
11	Bridging the gap between motor imagery and motor execution with a brainâ€“robot interface. NeuroImage, 2015, 108, 319-327.	4.2	81
12	Cerebellar Engagement in an Action Observation Network. Cerebral Cortex, 2010, 20, 486-491.	2.9	76
13	The role of the right superior temporal gyrus in visual searchâ€”Insights from intraoperative electrical stimulation. Neuropsychologia, 2006, 44, 2578-2581.	1.6	69
14	Plasticity of premotor cortico-muscular coherence in severely impaired stroke patients with hand paralysis. NeuroImage: Clinical, 2017, 14, 726-733.	2.7	68
15	Brainâ€“robot interface driven plasticity: Distributed modulation of corticospinal excitability. NeuroImage, 2016, 125, 522-532.	4.2	67
16	Subthalamic stimulation modulates cortical motor network activity and synchronization in Parkinsonâ€™s disease. Brain, 2015, 138, 679-693.	7.6	66
17	Closed-Loop Task Difficulty Adaptation during Virtual Reality Reach-to-Grasp Training Assisted with an Exoskeleton for Stroke Rehabilitation. Frontiers in Neuroscience, 2016, 10, 518.	2.8	63
18	Brain state-dependent robotic reaching movement with a multi-joint arm exoskeleton: combining brain-machine interfacing and robotic rehabilitation. Frontiers in Human Neuroscience, 2015, 9, 564.	2.0	62

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19	Combining TMS and tACS for Closed-Loop Phase-Dependent Modulation of Corticospinal Excitability: A Feasibility Study. Frontiers in Cellular Neuroscience, 2016, 10, 143.	3.7	62
20	Lateralized alpha-band cortical networks regulate volitional modulation of beta-band sensorimotor oscillations. NeuroImage, 2014, 87, 147-153.	4.2	55
21	Reinforcement learning of self-regulated Î²-oscillations for motor restoration in chronic stroke. Frontiers in Human Neuroscience, 2015, 9, 391.	2.0	55
22	Distinct Beta-band Oscillatory Circuits Underlie Corticospinal Gain Modulation. Cerebral Cortex, 2018, 28, 1502-1515.	2.9	54
23	Reinforcement learning for adaptive threshold control of restorative brain-computer interfaces: a Bayesian simulation. Frontiers in Neuroscience, 2015, 9, 36.	2.8	49
24	Coupling BCI and cortical stimulation for brain-state-dependent stimulation: methods for spectral estimation in the presence of stimulation after-effects. Frontiers in Neural Circuits, 2012, 6, 87.	2.8	47
25	Combined stimulation of the substantia nigra pars reticulata and the subthalamic nucleus is effective in hypokinetic gait disturbance in Parkinsonâ€™s disease. Journal of Neurology, 2011, 258, 1183-1185.	3.6	46
26	Neurosensory Effects of Transcranial Alternating Current Stimulation. Brain Stimulation, 2014, 7, 823-831.	1.6	44
27	Self-regulation of circumscribed brain activity modulates spatially selective and frequency specific connectivity of distributed resting state networks. Frontiers in Behavioral Neuroscience, 2015, 9, 181.	2.0	44
28	Enhanced motor learning with bilateral transcranial direct current stimulation: Impact of polarity or current flow direction?. Clinical Neurophysiology, 2016, 127, 2119-2126.	1.5	44
29	Hybrid Neuroprosthesis for the Upper Limb: Combining Brain-Controlled Neuromuscular Stimulation with a Multi-Joint Arm Exoskeleton. Frontiers in Neuroscience, 2016, 10, 367.	2.8	42
30	Physiological and behavioral effects of Î²-tACS on brain self-regulation in chronic stroke. Brain Stimulation, 2017, 10, 251-259.	1.6	40
31	Perisylvian white matter connectivity in the human right hemisphere. BMC Neuroscience, 2009, 10, 15.	1.9	37
32	Estimating cognitive load during self-regulation of brain activity and neurofeedback with therapeutic brain-computer interfaces. Frontiers in Behavioral Neuroscience, 2015, 9, 21.	2.0	37
33	Projecting Navigated TMS Sites on the Gyral Anatomy Decreases Inter-subject Variability of Cortical Motor Maps. Brain Stimulation, 2015, 8, 831-837.	1.6	37
34	Learned self-regulation of the lesioned brain with epidural electrocorticography. Frontiers in Behavioral Neuroscience, 2014, 8, 429.	2.0	36
35	What Turns Assistive into Restorative Brain-Machine Interfaces?. Frontiers in Neuroscience, 2016, 10, 456.	2.8	36
36	Recruitment of Additional Corticospinal Pathways in the Human Brain with State-Dependent Paired Associative Stimulation. Journal of Neuroscience, 2018, 38, 1396-1407.	3.6	36

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37	From assistance towards restoration with epidural brain-computer interfacing. Restorative Neurology and Neuroscience, 2014, 32, 517-525.	0.7	35
38	Brain State-Dependent Closed-Loop Modulation of Paired Associative Stimulation Controlled by Sensorimotor Desynchronization. Frontiers in Cellular Neuroscience, 2016, 10, 115.	3.7	35
39	Neuromuscular Plasticity: Disentangling Stable and Variable Motor Maps in the Human Sensorimotor Cortex. Neural Plasticity, 2016, 2016, 1-13.	2.2	33
40	Compensation or Restoration: Closed-Loop Feedback of Movement Quality for Assisted Reach-to-Grasp Exercises with a Multi-Joint Arm Exoskeleton. Frontiers in Neuroscience, 2016, 10, 280.	2.8	33
41	Multi-contact functional electrical stimulation for hand opening: electrophysiologically driven identification of the optimal stimulation site. Journal of NeuroEngineering and Rehabilitation, 2016, 13, 22.	4.6	33
42	Proprioceptive Feedback Facilitates Motor Imagery-Related Operant Learning of Sensorimotor Î²-Band Modulation. Frontiers in Neuroscience, 2017, 11, 60.	2.8	33
43	Closed-loop adaptation of neurofeedback based on mental effort facilitates reinforcement learning of brain self-regulation. Clinical Neurophysiology, 2016, 127, 3156-3164.	1.5	29
44	Effects of Subthalamic and Nigral Stimulation on Gait Kinematics in Parkinsonâ€™s Disease. Frontiers in Neurology, 2017, 8, 543.	2.4	29
45	Closed-Loop Neuroprosthesis for Reach-to-Grasp Assistance: Combining Adaptive Multi-channel Neuromuscular Stimulation with a Multi-joint Arm Exoskeleton. Frontiers in Neuroscience, 2016, 10, 284.	2.8	28
46	Long-term outcome of deep brain stimulation in fragile X-associated tremor/ataxia syndrome. Parkinsonism and Related Disorders, 2015, 21, 310-313.	2.2	26
47	What is the optimal task difficulty for reinforcement learning of brain self-regulation?. Clinical Neurophysiology, 2016, 127, 3033-3041.	1.5	26
48	Probing Corticospinal Recruitment Patterns and Functional Synergies with Transcranial Magnetic Stimulation. Frontiers in Cellular Neuroscience, 2016, 10, 175.	3.7	25
49	Long-term follow-up of subthalamic nucleus stimulation in glucocerebrosidase-associated Parkinsonâ€™s disease. Journal of Neurology, 2012, 259, 1970-1972.	3.6	24
50	Predicting workload profiles of brainâ€“robot interface and electromygraphic neurofeedback with cortical resting-state networks: personal trait or task-specific challenge?. Journal of Neural Engineering, 2015, 12, 046029.	3.5	24
51	An Unsupervised Online Spike-Sorting Framework. International Journal of Neural Systems, 2016, 26, 1550042.	5.2	24
52	State-dependent brain stimulation: Power or phase?. Brain Stimulation, 2019, 12, 296-299.	1.6	24
53	Online Mapping With the Deep Brain Stimulation Lead: A Novel Targeting Tool in Parkinson's Disease. Movement Disorders, 2020, 35, 1574-1586.	3.9	23
54	Epidural electrocorticography of phantom hand movement following long-term upper-limb amputation. Frontiers in Human Neuroscience, 2014, 8, 285.	2.0	22

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55	Phase-dependent modulation as a novel approach for therapeutic brain stimulation. Frontiers in Computational Neuroscience, 2015, 9, 26.	2.1	22
56	Cortical correlates of susceptibility to upper limb freezing in Parkinsonâ€™s disease. Clinical Neurophysiology, 2016, 127, 2386-2393.	1.5	22
57	Brain State-dependent Gain Modulation of Corticospinal Output in the Active Motor System. Cerebral Cortex, 2020, 30, 371-381.	2.9	22
58	Neuromuscular correlates of subthalamic stimulation and upper limb freezing in Parkinsonâ€™s disease. Clinical Neurophysiology, 2016, 127, 610-620.	1.5	21
59	Directional communication during movement execution interferes with tremor in Parkinson's disease. Movement Disorders, 2018, 33, 251-261.	3.9	20
60	Combined STN/SNr-DBS for the treatment of refractory gait disturbances in Parkinson's disease: study protocol for a randomized controlled trial. Trials, 2011, 12, 222.	1.6	18
61	Electrical Stimulation of the Human Homolog of the Medial Superior Temporal Area Induces Visual Motion Blindness. Journal of Neuroscience, 2013, 33, 18288-18297.	3.6	18
62	Anticipatory postural adjustments are modulated by substantia nigra stimulation in people with Parkinson's disease and freezing of gait. Parkinsonism and Related Disorders, 2019, 66, 34-39.	2.2	17
63	<scp>A</scp>lphaâ€synuclein gene variants may predict neurostimulation outcome. Movement Disorders, 2016, 31, 601-603.	3.9	15
64	Cumulative effects of single TMS pulses during beta-tACS are stimulation intensity-dependent. Brain Stimulation, 2017, 10, 1055-1060.	1.6	15
65	Extended enhancement of corticospinal connectivity with concurrent cortical and peripheral stimulation controlled by sensorimotor desynchronization. Brain Stimulation, 2018, 11, 1331-1335.	1.6	15
66	Transitions between repetitive tapping and upper limb freezing show impaired movement-related beta band modulation. Clinical Neurophysiology, 2020, 131, 2499-2507.	1.5	15
67	Activity-dependent brain stimulation and robot-assisted movements for use-dependent plasticity. Clinical Neurophysiology, 2015, 126, 853-854.	1.5	13
68	Anodal tDCS modulates cortical activity and synchronization in Parkinson's disease depending on motor processing. NeuroImage: Clinical, 2019, 22, 101689.	2.7	13
69	Different oscillatory entrainment of cortical networks during motor imagery and neurofeedback in right and left handers. NeuroImage, 2019, 195, 190-202.	4.2	13
70	Constraints and Adaptation of Closed-Loop Neuroprosthetics for Functional Restoration. Frontiers in Neuroscience, 2017, 11, 111.	2.8	12
71	Longâ€term effects of pallidal and thalamic deep brain stimulation in myoclonus dystonia. European Journal of Neurology, 2021, 28, 1566-1573.	3.3	12
72	Detecting a Cortical Fingerprint of Parkinson's Disease for Closed-Loop Neuromodulation. Frontiers in Neuroscience, 2016, 10, 110.	2.8	11

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73	Deep brain stimulation of the substantia nigra for freezing of gait in Parkinson's disease: is it about stimulation frequency?. Parkinsonism and Related Disorders, 2019, 63, 229-230.	2.2	9
74	Peripheral Electrical Stimulation Modulates Cortical Beta-Band Activity. Frontiers in Neuroscience, 2021, 15, 632234.	2.8	9
75	Epidural electrocorticography for monitoring of arousal in locked-in state. Frontiers in Human Neuroscience, 2014, 8, 861.	2.0	8
76	Reaction Time Predicts Brainâ€“Computer Interface Aptitude. IEEE Journal of Translational Engineering in Health and Medicine, 2018, 6, 1-11.	3.7	8
77	Clinical and Kinematic Correlates of Favorable Gait Outcomes From Subthalamic Stimulation. Frontiers in Neurology, 2020, 11, 212.	2.4	8
78	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. Parkinsonism and Related Disorders, 2019, 60, 3-9.	2.2	7
79	Comparing Methods for Decoding Movement Trajectory from ECoG in Chronic Stroke Patients. Biosystems and Biorobotics, 2016, , 125-139.	0.3	6
80	Brain-Machine Neurofeedback: Robotics or Electrical Stimulation?. Frontiers in Bioengineering and Biotechnology, 2020, 8, 639.	4.1	4
81	Long-Term Effect of GPi-DBS in a Patient With Generalized Dystonia Due to GLUT1 Deficiency Syndrome. Frontiers in Neurology, 2018, 9, 381.	2.4	3
82	Combined endogenous and exogenous disinhibition of intracortical circuits augments plasticity induction in the human motor cortex. Brain Stimulation, 2019, 12, 1027-1040.	1.6	3
83	Applicability of an Electrosurgical Device Based on Electromagnetics in Neurosurgery. Operative Neurosurgery, 2006, 59, ONS-142-ONS-145.	0.8	2
84	The subthalamic nucleus modulates the early phase of probabilistic classification learning. Experimental Brain Research, 2014, 232, 2255-2262.	1.5	2
85	State-Dependent Gain Modulation of Spinal Motor Output. Frontiers in Bioengineering and Biotechnology, 2020, 8, 523866.	4.1	2
86	Evidence-Based Decision Aid for Patients With Parkinson Disease: Protocol for Interview Study, Online Survey, and Two Randomized Controlled Trials. JMIR Research Protocols, 2020, 9, e17482.	1.0	2
87	People With Parkinsonâ€™s Disease and Freezing of Gait Show Abnormal Low Frequency Activity of Antagonistic Leg Muscles. Frontiers in Human Neuroscience, 2021, 15, 733067.	2.0	0
88	Evaluation of signal analysis algorithms for ipsilateral motor-evoked potentials induced by transcranial magnetic stimulation. Journal of Neural Engineering, 2022, , .	3.5	0