

Charlotte Jane Stagg

List of Publications by Year in descending order

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Version: 2024-02-01

104
papers

11,854
citations

57758

44
h-index

39675

94
g-index

125
all docs

125
docs citations

125
times ranked

12224
citing authors

#	ARTICLE	IF	CITATIONS
1	Evidence-based guidelines on the therapeutic use of repetitive transcranial magnetic stimulation (rTMS). <i>Clinical Neurophysiology</i> , 2014, 125, 2150-2206.	1.5	1,647
2	Physiological Basis of Transcranial Direct Current Stimulation. <i>Neuroscientist</i> , 2011, 17, 37-53.	3.5	1,292
3	A technical guide to tDCS, and related non-invasive brain stimulation tools. <i>Clinical Neurophysiology</i> , 2016, 127, 1031-1048.	1.5	998
4	Polarity-Sensitive Modulation of Cortical Neurotransmitters by Transcranial Stimulation. <i>Journal of Neuroscience</i> , 2009, 29, 5202-5206.	3.6	771
5	The Role of GABA in Human Motor Learning. <i>Current Biology</i> , 2011, 21, 480-484.	3.9	496
6	Polarity and timing-dependent effects of transcranial direct current stimulation in explicit motor learning. <i>Neuropsychologia</i> , 2011, 49, 800-804.	1.6	378
7	Faciobrachial dystonic seizures: the influence of immunotherapy on seizure control and prevention of cognitive impairment in a broadening phenotype. <i>Brain</i> , 2013, 136, 3151-3162.	7.6	373
8	Relationship between physiological measures of excitability and levels of glutamate and GABA in the human motor cortex. <i>Journal of Physiology</i> , 2011, 589, 5845-5855.	2.9	324
9	Physiology of Transcranial Direct Current Stimulation. <i>Journal of ECT</i> , 2018, 34, 144-152.	0.6	268
10	Neurochemical Effects of Theta Burst Stimulation as Assessed by Magnetic Resonance Spectroscopy. <i>Journal of Neurophysiology</i> , 2009, 101, 2872-2877.	1.8	250
11	Diffusion imaging of whole, post-mortem human brains on a clinical MRI scanner. <i>NeuroImage</i> , 2011, 57, 167-181.	4.2	239
12	Widespread Modulation of Cerebral Perfusion Induced during and after Transcranial Direct Current Stimulation Applied to the Left Dorsolateral Prefrontal Cortex. <i>Journal of Neuroscience</i> , 2013, 33, 11425-11431.	3.6	238
13	Modulation of GABA and resting state functional connectivity by transcranial direct current stimulation. <i>ELife</i> , 2015, 4, e08789.	6.0	184
14	Ipsilesional anodal tDCS enhances the functional benefits of rehabilitation in patients after stroke. <i>Science Translational Medicine</i> , 2016, 8, 330re1.	12.4	178
15	Local GABA concentration is related to network-level resting functional connectivity. <i>ELife</i> , 2014, 3, e01465.	6.0	157
16	Modulation of movement-associated cortical activation by transcranial direct current stimulation. <i>European Journal of Neuroscience</i> , 2009, 30, 1412-1423.	2.6	156
17	Cortical activation changes underlying stimulation-induced behavioural gains in chronic stroke. <i>Brain</i> , 2012, 135, 276-284.	7.6	156
18	Predicting behavioural response to TDCS in chronic motor stroke. <i>NeuroImage</i> , 2014, 85, 924-933.	4.2	150

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19	Dysmenorrhoea is associated with central changes in otherwise healthy women. <i>Pain</i> , 2011, 152, 1966-1975.	4.2	148
20	What are we measuring with GABA Magnetic Resonance Spectroscopy?. <i>Communicative and Integrative Biology</i> , 2011, 4, 573-575.	1.4	136
21	A combined post-mortem magnetic resonance imaging and quantitative histological study of multiple sclerosis pathology. <i>Brain</i> , 2012, 135, 2938-2951.	7.6	131
22	The dynamics of cortical GABA in human motor learning. <i>Journal of Physiology</i> , 2019, 597, 271-282.	2.9	125
23	Multi-modal characterization of rapid anterior hippocampal volume increase associated with aerobic exercise. <i>NeuroImage</i> , 2016, 131, 162-170.	4.2	119
24	Magnetic Resonance Spectroscopy as a tool to study the role of GABA in motor-cortical plasticity. <i>NeuroImage</i> , 2014, 86, 19-27.	4.2	116
25	GABA Levels Are Decreased After Stroke and GABA Changes During Rehabilitation Correlate With Motor Improvement. <i>Neurorehabilitation and Neural Repair</i> , 2015, 29, 278-286.	2.9	110
26	Investigating the Stability of Fine-Grain Digit Somatotopy in Individual Human Participants. <i>Journal of Neuroscience</i> , 2016, 36, 1113-1127.	3.6	102
27	Driving Human Motor Cortical Oscillations Leads to Behaviorally Relevant Changes in Local GABA _A Inhibition: A tACS-TMS Study. <i>Journal of Neuroscience</i> , 2017, 37, 4481-4492.	3.6	96
28	A tool for functional brain imaging with lifespan compliance. <i>Nature Communications</i> , 2019, 10, 4785.	12.8	96
29	Changes in functional connectivity and GABA levels with long-term motor learning. <i>NeuroImage</i> , 2015, 106, 15-20.	4.2	95
30	Polarity-specific effects of motor transcranial direct current stimulation on fMRI resting state networks. <i>NeuroImage</i> , 2014, 88, 155-161.	4.2	92
31	The impact of large structural brain changes in chronic stroke patients on the electric field caused by transcranial brain stimulation. <i>NeuroImage: Clinical</i> , 2017, 15, 106-117.	2.7	84
32	Visual mismatch negativity: the detection of stimulus change. <i>NeuroReport</i> , 2004, 15, 659-663.	1.2	82
33	What are we measuring with GABA magnetic resonance spectroscopy?. <i>Communicative and Integrative Biology</i> , 2011, 4, 573-5.	1.4	82
34	Guidelines for TMS/tES clinical services and research through the COVID-19 pandemic. <i>Brain Stimulation</i> , 2020, 13, 1124-1149.	1.6	78
35	Brain imaging reveals that engagement of descending inhibitory pain pathways in healthy women in a low endogenous estradiol state varies with testosterone. <i>Pain</i> , 2013, 154, 515-524.	4.2	71
36	Walking performance and its recovery in chronic stroke in relation to extent of lesion overlap with the descending motor tract. <i>Experimental Brain Research</i> , 2008, 186, 325-333.	1.5	70

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37	The Homeostatic Interaction Between Anodal Transcranial Direct Current Stimulation and Motor Learning in Humans is Related to GABAA Activity. <i>Brain Stimulation</i> , 2015, 8, 898-905.	1.6	70
38	Relationships between functional and structural corticospinal tract integrity and walking post stroke. <i>Clinical Neurophysiology</i> , 2012, 123, 2422-2428.	1.5	69
39	Visualization of Altered Neurovascular Coupling in Chronic Stroke Patients using Multimodal Functional MRI. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2012, 32, 2044-2054.	4.3	64
40	Motor Cortical Gamma Oscillations: What Have We Learnt and Where Are We Headed?. <i>Current Behavioral Neuroscience Reports</i> , 2018, 5, 136-142.	1.3	64
41	Altered neurochemical coupling in the occipital cortex in migraine with visual aura. <i>Cephalalgia</i> , 2015, 35, 1025-1030.	3.9	63
42	Modulating Regional Motor Cortical Excitability with Noninvasive Brain Stimulation Results in Neurochemical Changes in Bilateral Motor Cortices. <i>Journal of Neuroscience</i> , 2018, 38, 7327-7336.	3.6	55
43	Structural Connectivity Variances Underlie Functional and Behavioral Changes During Pain Relief Induced by Neuromodulation. <i>Scientific Reports</i> , 2017, 7, 41603.	3.3	54
44	The role of inhibition in human motor cortical plasticity. <i>Neuroscience</i> , 2014, 278, 93-104.	2.3	53
45	Motor Practice Promotes Increased Activity in Brain Regions Structurally Disconnected After Subcortical Stroke. <i>Neurorehabilitation and Neural Repair</i> , 2011, 25, 607-616.	2.9	52
46	Whole-brain magnetic resonance spectroscopic imaging measures are related to disability in ALS. <i>Neurology</i> , 2013, 80, 610-615.	1.1	50
47	FSLâ€MRS: An endâ€œend spectroscopy analysis package. <i>Magnetic Resonance in Medicine</i> , 2021, 85, 2950-2964.	3.0	49
48	A Mechanistic Link from GABA to Cortical Architecture and Perception. <i>Current Biology</i> , 2017, 27, 1685-1691.e3.	3.9	48
49	Modulation of Long-Range Connectivity Patterns via Frequency-Specific Stimulation of Human Cortex. <i>Current Biology</i> , 2017, 27, 3061-3068.e3.	3.9	48
50	Consensus statement on current and emerging methods for the diagnosis and evaluation of cerebrovascular disease. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2018, 38, 1391-1417.	4.3	48
51	Studying the Effects of Transcranial Direct-Current Stimulation in Stroke Recovery Using Magnetic Resonance Imaging. <i>Frontiers in Human Neuroscience</i> , 2013, 7, 857.	2.0	46
52	Phosphene Perception Relates to Visual Cortex Glutamate Levels and Covaries with Atypical Visuospatial Awareness. <i>Cerebral Cortex</i> , 2015, 25, 4341-4350.	2.9	44
53	Relevance of Structural Brain Connectivity to Learning and Recovery from Stroke. <i>Frontiers in Systems Neuroscience</i> , 2010, 4, 146.	2.5	43
54	Autoantibodies to glutamic acid decarboxylase in patients with epilepsy are associated with low cortical GABA levels. <i>Epilepsia</i> , 2010, 51, 1898-1901.	5.1	43

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55	White matter abnormalities in methcathinone abusers with an extrapyramidal syndrome. <i>Brain</i> , 2010, 133, 3676-3684.	7.6	42
56	Perceptually relevant remapping of human somatotopy in 24 hours. <i>ELife</i> , 2016, 5, .	6.0	40
57	Learning to optimize perceptual decisions through suppressive interactions in the human brain. <i>Nature Communications</i> , 2019, 10, 474.	12.8	37
58	GABA Predicts Time Perception. <i>Journal of Neuroscience</i> , 2014, 34, 4364-4370.	3.6	36
59	Effect of age and the APOE gene on metabolite concentrations in the posterior cingulate cortex. <i>NeuroImage</i> , 2017, 152, 509-516.	4.2	36
60	An Ultra-High Field Magnetic Resonance Spectroscopy Study of Post Exercise Lactate, Glutamate and Glutamine Change in the Human Brain. <i>Frontiers in Physiology</i> , 2015, 6, 351.	2.8	35
61	Excitation and inhibition in anterior cingulate predict use of past experiences. <i>ELife</i> , 2017, 6, .	6.0	34
62	Transcranial Magnetic Stimulation: From Neurophysiology to Pharmacology, Molecular Biology and Genomics. <i>Neuroscientist</i> , 2010, 16, 210-221.	3.5	32
63	Dopamine depletion effects on cognitive flexibility as modulated by tDCS of the dlPFC. <i>Brain Stimulation</i> , 2020, 13, 105-108.	1.6	32
64	Motor training modulates intracortical inhibitory dynamics in motor cortex during movement preparation. <i>Brain Stimulation</i> , 2019, 12, 300-308.	1.6	30
65	Two-voxel spectroscopy with dynamic B_1 shimming and flip angle adjustment at 7 T in the human motor cortex. <i>NMR in Biomedicine</i> , 2015, 28, 852-860.	2.8	28
66	Cerebellar and cortical abnormalities in paediatric opsoclonus-myoclonus syndrome. <i>Developmental Medicine and Child Neurology</i> , 2015, 57, 265-272.	2.1	28
67	Metabolite-cycled density-weighted concentric rings k-space trajectory (DW-CRT) enables high-resolution ^1H magnetic resonance spectroscopic imaging at 3-Tesla. <i>Scientific Reports</i> , 2018, 8, 7792.	3.3	28
68	Luteal Analgesia: Progesterone Dissociates Pain Intensity and Unpleasantness by Influencing Emotion Regulation Networks. <i>Frontiers in Endocrinology</i> , 2018, 9, 413.	3.5	21
69	Relating diffusion tensor imaging measurements to microstructural quantities in the cerebral cortex in multiple sclerosis. <i>Human Brain Mapping</i> , 2019, 40, 4417-4431.	3.6	21
70	A checklist for assessing the methodological quality of concurrent tES-fMRI studies (ContES) <small>Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 142</small>	12.0	21
71	Imaging the effects of rTMS-induced cortical plasticity. <i>Restorative Neurology and Neuroscience</i> , 2010, 28, 425-436.	0.7	20
72	Neurophysiological signatures of hand motor response to dual-transcranial direct current stimulation in subacute stroke: a TMS and MEG study. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2020, 17, 72.	4.6	18

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73	β -Oscillations Reflect Recovery of the Paretic Upper Limb in Subacute Stroke. <i>Neurorehabilitation and Neural Repair</i> , 2020, 34, 450-462.	2.9	18
74	Increasing human motor skill acquisition by driving theta-gamma coupling. <i>ELife</i> , 2021, 10, .	6.0	18
75	Catecholaminergic modulation of indices of cognitive flexibility: A pharmacological tDCS study. <i>Brain Stimulation</i> , 2019, 12, 290-295.	1.6	17
76	New Mechanistic Insights, Novel Treatment Paradigms, and Clinical Progress in Cerebrovascular Diseases. <i>Frontiers in Aging Neuroscience</i> , 2021, 13, 623751.	3.4	17
77	Neurochemical changes underpinning the development of adjunct therapies in recovery after stroke: A role for GABA?. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2018, 38, 1564-1583.	4.3	16
78	Visual training in hemianopia alters neural activity in the absence of behavioural improvement: a pilot study. <i>Ophthalmic and Physiological Optics</i> , 2018, 38, 538-549.	2.0	14
79	A range of pulses commonly used for human transcranial ultrasound stimulation are clearly audible. <i>Brain Stimulation</i> , 2021, 14, 1353-1355.	1.6	14
80	Other Significant Metabolites. , 2014, , 122-138.		12
81	The Physiological Basis of Brain Stimulation. , 2014, , 145-177.		12
82	Recent advances in the role of excitation-inhibition balance in motor recovery post-stroke. <i>Faculty Reviews</i> , 2021, 10, 58.	3.9	12
83	Differential impact of reward and punishment on functional connectivity after skill learning. <i>NeuroImage</i> , 2019, 189, 95-105.	4.2	11
84	Reassessing associations between white matter and behaviour with multimodal microstructural imaging. <i>Cortex</i> , 2021, 145, 187-200.	2.4	10
85	Grey matter abnormalities in methcathinone abusers with a Parkinsonian syndrome. <i>Brain and Behavior</i> , 2016, 6, e00539.	2.2	9
86	Hippocampal Functional Dynamics Are Clinically Implicated in Autoimmune Encephalitis With Faciobrachial Dystonic Seizures. <i>Frontiers in Neurology</i> , 2018, 9, 736.	2.4	7
87	Therapeutic non-invasive brain stimulation in amyotrophic lateral sclerosis: rationale, methods and experience. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2019, 90, 1131-1138.	1.9	7
88	A single, clinically relevant dose of the GABA B agonist baclofen impairs visuomotor learning. <i>Journal of Physiology</i> , 2021, 599, 307-322.	2.9	7
89	An In-vivo 1H-MRS short-echo time technique at 7T: Quantification of metabolites in chronic multiple sclerosis and neuromyelitis optica brain lesions and normal appearing brain tissue. <i>NeuroImage</i> , 2021, 238, 118225.	4.2	5
90	Transcranial Direct Current Stimulation Integration with Magnetic Resonance Imaging, Magnetic Resonance Spectroscopy, Near Infrared Spectroscopy Imaging, and Electroencephalography. , 2019, , 293-345.		4

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91	Alcohol consumption is associated with reduced creatine levels in the hippocampus of older adults. <i>Psychiatry Research - Neuroimaging</i> , 2020, 295, 111019.	1.8	4
92	Exploring the infinite parameter space: rethinking assumptions underpinning the use of transcranial direct current stimulation to induce long-term effects. <i>Journal of Physiology</i> , 2020, 598, 621-622.	2.9	3
93	Intention to learn modulates the impact of reward and punishment on sequence learning. <i>Scientific Reports</i> , 2020, 10, 8906.	3.3	3
94	Motor Dysfunction Simulation in Able-Bodied Participants for Usability Evaluation of Assistive Technology: A Research Proposal. <i>Lecture Notes in Information Systems and Organisation</i> , 2021, , 30-37.	0.6	3
95	Investigating Different Levels of Bimanual Interaction With a Novel Motor Learning Task: A Behavioural and Transcranial Alternating Current Stimulation Study. <i>Frontiers in Human Neuroscience</i> , 2021, 15, 755748.	2.0	2
96	tDCS and Magnetic Resonance Imaging. , 2016, , 169-195.		1
97	tDCS and Magnetic Resonance Imaging. , 2021, , 127-158.		1
98	Interindividual Differences in Behavior and Plasticity. , 2014, , 243-253.		0
99	Neuroplasticity in Constraint-Induced Movement Therapy. <i>Biosystems and Biorobotics</i> , 2014, , 23-24.	0.3	0
100	Stimulation is never quite as simple as it seems. <i>Journal of Physiology</i> , 2015, 593, 1529-1530.	2.9	0
101	Less practice makes just as perfect. <i>Trends in Cognitive Sciences</i> , 2021, 25, 823-825.	7.8	0
102	Technology Integration Methods for Bi-directional Brain-computer Interfaces and XR-based Interventions. <i>Conference Proceedings IEEE International Conference on Systems, Man, and Cybernetics</i> , 2020, 2020, 3695-3701.	0.0	0
103	Technology Integration Methods for Bi-directional Brain-computer Interfaces and XR-based Interventions. , 2020, 2020, 3695-3701.		0
104	Neuroanatomical correlates of working memory performance in Neurofibromatosis 1. <i>Cerebral Cortex Communications</i> , 2022, 3, .	1.6	0