

# 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	A checklist for assessing the methodological quality of concurrent tES-fMRI studies (ContES) Tj ETQq1 1 0.784314rgBT /Overlock 10	12.0	21
2	Neuroanatomical correlates of working memory performance in Neurofibromatosis 1. Cerebral Cortex Communications, 2022, 3, .	1.6	0
3	A single, clinically relevant dose of the GABA B agonist baclofen impairs visuomotor learning. Journal of Physiology, 2021, 599, 307-322.	2.9	7
4	FSLâ€MRS: An endâ€toâ€end spectroscopy analysis package. Magnetic Resonance in Medicine, 2021, 85, 2950-2964.	3.0	49
5	tDCS and Magnetic Resonance Imaging. , 2021, , 127-158.		1
6	Recent advances in the role of excitationâ€inhibition balance in motor recovery post-stroke. Faculty Reviews, 2021, 10, 58.	3.9	12
7	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. NeuroImage, 2021, 238, 118225.	4.2	5
8	A range of pulses commonly used for human transcranial ultrasound stimulation are clearly audible. Brain Stimulation, 2021, 14, 1353-1355.	1.6	14
9	Less practice makes just as perfect. Trends in Cognitive Sciences, 2021, 25, 823-825.	7.8	0
10	New Mechanistic Insights, Novel Treatment Paradigms, and Clinical Progress in Cerebrovascular Diseases. Frontiers in Aging Neuroscience, 2021, 13, 623751.	3.4	17
11	Reassessing associations between white matter and behaviour with multimodal microstructural imaging. Cortex, 2021, 145, 187-200.	2.4	10
12	Motor Dysfunction Simulation in Able-Bodied Participants for Usability Evaluation of Assistive Technology: A Research Proposal. Lecture Notes in Information Systems and Organisation, 2021, , 30-37.	0.6	3
13	Increasing human motor skill acquisition by driving thetaâ€gamma coupling. ELife, 2021, 10, .	6.0	18
14	Investigating Different Levels of Bimanual Interaction With a Novel Motor Learning Task: A Behavioural and Transcranial Alternating Current Stimulation Study. Frontiers in Human Neuroscience, 2021, 15, 755748.	2.0	2
15	Dopamine depletion effects on cognitive flexibility as modulated by tDCS of the dlPFC. Brain Stimulation, 2020, 13, 105-108.	1.6	32
16	Exploring the infinite parameter space: rethinking assumptions underpinning the use of transcranial direct current stimulation to induce longâ€term effects. Journal of Physiology, 2020, 598, 621-622.	2.9	3
17	Alcohol consumption is associated with reduced creatine levels in the hippocampus of older adults. Psychiatry Research - Neuroimaging, 2020, 295, 111019.	1.8	4
18	Guidelines for TMS/tES clinical services and research through the COVID-19 pandemic. Brain Stimulation, 2020, 13, 1124-1149.	1.6	78

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19	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
20	Intention to learn modulates the impact of reward and punishment on sequence learning. <i>Scientific Reports</i> , 2020, 10, 8906.	3.3	3
21	$\beta$ -Oscillations Reflect Recovery of the Paretic Upper Limb in Subacute Stroke. <i>Neurorehabilitation and Neural Repair</i> , 2020, 34, 450-462.	2.9	18
22	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
23	Technology Integration Methods for Bi-directional Brain-computer Interfaces and XR-based Interventions. , 2020, 2020, 3695-3701.		0
24	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
25	A tool for functional brain imaging with lifespan compliance. <i>Nature Communications</i> , 2019, 10, 4785.	12.8	96
26	Transcranial Direct Current Stimulation Integration with Magnetic Resonance Imaging, Magnetic Resonance Spectroscopy, Near Infrared Spectroscopy Imaging, and Electroencephalography. , 2019, , 293-345.		4
27	Learning to optimize perceptual decisions through suppressive interactions in the human brain. <i>Nature Communications</i> , 2019, 10, 474.	12.8	37
28	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
29	Catecholaminergic modulation of indices of cognitive flexibility: A pharmac-tDCS study. <i>Brain Stimulation</i> , 2019, 12, 290-295.	1.6	17
30	Motor training modulates intracortical inhibitory dynamics in motor cortex during movement preparation. <i>Brain Stimulation</i> , 2019, 12, 300-308.	1.6	30
31	Differential impact of reward and punishment on functional connectivity after skill learning. <i>NeuroImage</i> , 2019, 189, 95-105.	4.2	11
32	The dynamics of cortical GABA in human motor learning. <i>Journal of Physiology</i> , 2019, 597, 271-282.	2.9	125
33	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
34	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
35	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
36	Hippocampal Functional Dynamics Are Clinically Implicated in Autoimmune Encephalitis With Faciobrachial Dystonic Seizures. <i>Frontiers in Neurology</i> , 2018, 9, 736.	2.4	7

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37	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
38	Metabolite-cycled density-weighted concentric rings k-space trajectory (DW-CRT) enables high-resolution $^1\text{H}$ magnetic resonance spectroscopic imaging at 3-Tesla. <i>Scientific Reports</i> , 2018, 8, 7792.	3.3	28
39	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
40	“Luteal Analgesia”: Progesterone Dissociates Pain Intensity and Unpleasantness by Influencing Emotion Regulation Networks. <i>Frontiers in Endocrinology</i> , 2018, 9, 413.	3.5	21
41	Physiology of Transcranial Direct Current Stimulation. <i>Journal of ECT</i> , 2018, 34, 144-152.	0.6	268
42	Structural Connectivity Variances Underlie Functional and Behavioral Changes During Pain Relief Induced by Neuromodulation. <i>Scientific Reports</i> , 2017, 7, 41603.	3.3	54
43	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
44	A Mechanistic Link from GABA to Cortical Architecture and Perception. <i>Current Biology</i> , 2017, 27, 1685-1691.e3.	3.9	48
45	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
46	Driving Human Motor Cortical Oscillations Leads to Behaviorally Relevant Changes in Local GABA <sub>A</sub> Inhibition: A tACS-TMS Study. <i>Journal of Neuroscience</i> , 2017, 37, 4481-4492.	3.6	96
47	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
48	Excitation and inhibition in anterior cingulate predict use of past experiences. <i>ELife</i> , 2017, 6, .	6.0	34
49	Investigating the Stability of Fine-Grain Digit Somatotopy in Individual Human Participants. <i>Journal of Neuroscience</i> , 2016, 36, 1113-1127.	3.6	102
50	Grey matter abnormalities in methcathinone abusers with a Parkinsonian syndrome. <i>Brain and Behavior</i> , 2016, 6, e00539.	2.2	9
51	Ipsilesional anodal tDCS enhances the functional benefits of rehabilitation in patients after stroke. <i>Science Translational Medicine</i> , 2016, 8, 330re1.	12.4	178
52	tDCS and Magnetic Resonance Imaging. , 2016, , 169-195.		1
53	A technical guide to tDCS, and related non-invasive brain stimulation tools. <i>Clinical Neurophysiology</i> , 2016, 127, 1031-1048.	1.5	998
54	Multi-modal characterization of rapid anterior hippocampal volume increase associated with aerobic exercise. <i>NeuroImage</i> , 2016, 131, 162-170.	4.2	119

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55	Perceptually relevant remapping of human somatotopy in 24 hours. <i>ELife</i> , 2016, 5, .	6.0	40
56	Two-voxel spectroscopy with dynamic $B_0$ 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
57	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
58	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
59	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
60	Cerebellar and cortical abnormalities in paediatric opsoclonus-myoclonus syndrome. <i>Developmental Medicine and Child Neurology</i> , 2015, 57, 265-272.	2.1	28
61	Altered neurochemical coupling in the occipital cortex in migraine with visual aura. <i>Cephalalgia</i> , 2015, 35, 1025-1030.	3.9	63
62	Stimulation is never quite as simple as it seems. <i>Journal of Physiology</i> , 2015, 593, 1529-1530.	2.9	0
63	The Homeostatic Interaction Between Anodal Transcranial Direct Current Stimulation and Motor Learning in Humans is Related to GABA <sub>A</sub> Activity. <i>Brain Stimulation</i> , 2015, 8, 898-905.	1.6	70
64	Changes in functional connectivity and GABA levels with long-term motor learning. <i>NeuroImage</i> , 2015, 106, 15-20.	4.2	95
65	Modulation of GABA and resting state functional connectivity by transcranial direct current stimulation. <i>ELife</i> , 2015, 4, e08789.	6.0	184
66	Interindividual Differences in Behavior and Plasticity. , 2014, , 243-253.		0
67	Other Significant Metabolites. , 2014, , 122-138.		12
68	The Physiological Basis of Brain Stimulation. , 2014, , 145-177.		12
69	The role of inhibition in human motor cortical plasticity. <i>Neuroscience</i> , 2014, 278, 93-104.	2.3	53
70	GABA Predicts Time Perception. <i>Journal of Neuroscience</i> , 2014, 34, 4364-4370.	3.6	36
71	Neuroplasticity in Constraint-Induced Movement Therapy. <i>Biosystems and Biorobotics</i> , 2014, , 23-24.	0.3	0
72	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

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73	Predicting behavioural response to TDCS in chronic motor stroke. <i>NeuroImage</i> , 2014, 85, 924-933.	4.2	150
74	Polarity-specific effects of motor transcranial direct current stimulation on fMRI resting state networks. <i>NeuroImage</i> , 2014, 88, 155-161.	4.2	92
75	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
76	Local GABA concentration is related to network-level resting functional connectivity. <i>ELife</i> , 2014, 3, e01465.	6.0	157
77	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
78	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
79	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
80	Whole-brain magnetic resonance spectroscopic imaging measures are related to disability in ALS. <i>Neurology</i> , 2013, 80, 610-615.	1.1	50
81	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
82	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
83	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
84	Cortical activation changes underlying stimulation-induced behavioural gains in chronic stroke. <i>Brain</i> , 2012, 135, 276-284.	7.6	156
85	Relationships between functional and structural corticospinal tract integrity and walking post stroke. <i>Clinical Neurophysiology</i> , 2012, 123, 2422-2428.	1.5	69
86	Physiological Basis of Transcranial Direct Current Stimulation. <i>Neuroscientist</i> , 2011, 17, 37-53.	3.5	1,292
87	Diffusion imaging of whole, post-mortem human brains on a clinical MRI scanner. <i>NeuroImage</i> , 2011, 57, 167-181.	4.2	239
88	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
89	Polarity and timing-dependent effects of transcranial direct current stimulation in explicit motor learning. <i>Neuropsychologia</i> , 2011, 49, 800-804.	1.6	378
90	Dysmenorrhoea is associated with central changes in otherwise healthy women. <i>Pain</i> , 2011, 152, 1966-1975.	4.2	148

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91	The Role of GABA in Human Motor Learning. <i>Current Biology</i> , 2011, 21, 480-484.	3.9	496
92	What are we measuring with GABA Magnetic Resonance Spectroscopy?. <i>Communicative and Integrative Biology</i> , 2011, 4, 573-575.	1.4	136
93	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
94	What are we measuring with GABA magnetic resonance spectroscopy?. <i>Communicative and Integrative Biology</i> , 2011, 4, 573-5.	1.4	82
95	Relevance of Structural Brain Connectivity to Learning and Recovery from Stroke. <i>Frontiers in Systems Neuroscience</i> , 2010, 4, 146.	2.5	43
96	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
97	Imaging the effects of rTMS-induced cortical plasticity. <i>Restorative Neurology and Neuroscience</i> , 2010, 28, 425-436.	0.7	20
98	White matter abnormalities in methcathinone abusers with an extrapyramidal syndrome. <i>Brain</i> , 2010, 133, 3676-3684.	7.6	42
99	Transcranial Magnetic Stimulation: From Neurophysiology to Pharmacology, Molecular Biology and Genomics. <i>Neuroscientist</i> , 2010, 16, 210-221.	3.5	32
100	Modulation of movement-associated cortical activation by transcranial direct current stimulation. <i>European Journal of Neuroscience</i> , 2009, 30, 1412-1423.	2.6	156
101	Polarity-Sensitive Modulation of Cortical Neurotransmitters by Transcranial Stimulation. <i>Journal of Neuroscience</i> , 2009, 29, 5202-5206.	3.6	771
102	Neurochemical Effects of Theta Burst Stimulation as Assessed by Magnetic Resonance Spectroscopy. <i>Journal of Neurophysiology</i> , 2009, 101, 2872-2877.	1.8	250
103	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
104	Visual mismatch negativity: the detection of stimulus change. <i>NeuroReport</i> , 2004, 15, 659-663.	1.2	82