

# Nigel C Rogasch

## List of Publications by Year in descending order

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Version: 2024-02-01

82  
papers

4,492  
citations

117453

34  
h-index

128067

60  
g-index

98  
all docs

98  
docs citations

98  
times ranked

3563  
citing authors

#	ARTICLE	IF	CITATIONS
1	Clinical utility and prospective of TMS-EEG. <i>Clinical Neurophysiology</i> , 2019, 130, 802-844.	0.7	276
2	Analysing concurrent transcranial magnetic stimulation and electroencephalographic data: A review and introduction to the open-source TESA software. <i>NeuroImage</i> , 2017, 147, 934-951.	2.1	250
3	Removing artefacts from TMS-EEG recordings using independent component analysis: Importance for assessing prefrontal and motor cortex network properties. <i>NeuroImage</i> , 2014, 101, 425-439.	2.1	239
4	Assessing cortical network properties using TMS-EEG. <i>Human Brain Mapping</i> , 2013, 34, 1652-1669.	1.9	213
5	Use of theta-burst stimulation in changing excitability of motor cortex: A systematic review and meta-analysis. <i>Neuroscience and Biobehavioral Reviews</i> , 2016, 63, 43-64.	2.9	202
6	Corticomotor plasticity and learning of a ballistic thumb training task are diminished in older adults. <i>Journal of Applied Physiology</i> , 2009, 107, 1874-1883.	1.2	152
7	Responders to rTMS for depression show increased fronto-midline theta and theta connectivity compared to non-responders. <i>Brain Stimulation</i> , 2018, 11, 190-203.	0.7	133
8	Cortical inhibition of distinct mechanisms in the dorsolateral prefrontal cortex is related to working memory performance: A TMS-EEG study. <i>Cortex</i> , 2015, 64, 68-77.	1.1	120
9	Characterizing and minimizing the contribution of sensory inputs to TMS-evoked potentials. <i>Brain Stimulation</i> , 2019, 12, 1537-1552.	0.7	113
10	Reproducibility in TMS-EEG studies: A call for data sharing, standard procedures and effective experimental control. <i>Brain Stimulation</i> , 2019, 12, 787-790.	0.7	106
11	Mechanisms underlying long-interval cortical inhibition in the human motor cortex: a TMS-EEG study. <i>Journal of Neurophysiology</i> , 2013, 109, 89-98.	0.9	98
12	Measuring Brain Stimulation Induced Changes in Cortical Properties Using TMS-EEG. <i>Brain Stimulation</i> , 2015, 8, 1010-1020.	0.7	98
13	Enhancement of Working Memory and Task-Related Oscillatory Activity Following Intermittent Theta Burst Stimulation in Healthy Controls. <i>Cerebral Cortex</i> , 2016, 26, 4563-4573.	1.6	97
14	Short-Latency Artifacts Associated with Concurrent TMS-EEG. <i>Brain Stimulation</i> , 2013, 6, 868-876.	0.7	95
15	Demonstration of short-term plasticity in the dorsolateral prefrontal cortex with theta burst stimulation: A TMS-EEG study. <i>Clinical Neurophysiology</i> , 2017, 128, 1117-1126.	0.7	93
16	Impact of different intensities of intermittent theta burst stimulation on the cortical properties during TMS-EEG and working memory performance. <i>Human Brain Mapping</i> , 2018, 39, 783-802.	1.9	90
17	Effects of prefrontal bipolar and high-definition transcranial direct current stimulation on cortical reactivity and working memory in healthy adults. <i>NeuroImage</i> , 2017, 152, 142-157.	2.1	87
18	TMS-EEG: A window into the neurophysiological effects of transcranial electrical stimulation in non-motor brain regions. <i>Neuroscience and Biobehavioral Reviews</i> , 2016, 64, 175-184.	2.9	86

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19	Altered Transcranial Magnetic Stimulationâ€™Electroencephalographic Markers of Inhibition and Excitation in the Dorsolateral Prefrontal Cortex in Major Depressive Disorder. <i>Biological Psychiatry</i> , 2019, 85, 477-486.	0.7	81
20	Large-scale analysis of interindividual variability in theta-burst stimulation data: Results from the â€™Big TMS Data Collaborationâ€™™. <i>Brain Stimulation</i> , 2020, 13, 1476-1488.	0.7	81
21	The effects of individualised intermittent theta burst stimulation in the prefrontal cortex: A TMSâ€™EEG study. <i>Human Brain Mapping</i> , 2019, 40, 608-627.	1.9	77
22	Effects of single versus dual-site High-Definition transcranial direct current stimulation (HD-tDCS) on cortical reactivity and working memory performance in healthy subjects. <i>Brain Stimulation</i> , 2018, 11, 1033-1043.	0.7	75
23	Hemispheric differences in use-dependent corticomotor plasticity in young and old adults. <i>Experimental Brain Research</i> , 2010, 205, 57-68.	0.7	73
24	The effect of single and repeated prefrontal intermittent theta burst stimulation on cortical reactivity and working memory. <i>Brain Stimulation</i> , 2018, 11, 566-574.	0.7	69
25	Dynamical consequences of regional heterogeneity in the brainâ€™™s transcriptional landscape. <i>Science Advances</i> , 2021, 7, .	4.7	69
26	The effect of stimulation interval on plasticity following repeated blocks of intermittent theta burst stimulation. <i>Scientific Reports</i> , 2018, 8, 8526.	1.6	68
27	Differentiating responders and non-responders to rTMS treatment for depression after one week using resting EEG connectivity measures. <i>Journal of Affective Disorders</i> , 2019, 242, 68-79.	2.0	65
28	Cortical Inhibition, Excitation, and Connectivity in Schizophrenia: A Review of Insights From Transcranial Magnetic Stimulation. <i>Schizophrenia Bulletin</i> , 2014, 40, 685-696.	2.3	63
29	ARTIST: A fully automated artifact rejection algorithm for singleâ€™pulse TMSâ€™EEG data. <i>Human Brain Mapping</i> , 2018, 39, 1607-1625.	1.9	57
30	GABA concentration in sensorimotor cortex following highâ€™intensity exercise and relationship to lactate levels. <i>Journal of Physiology</i> , 2018, 596, 691-702.	1.3	57
31	TMSEEG: A MATLAB-Based Graphical User Interface for Processing Electrophysiological Signals during Transcranial Magnetic Stimulation. <i>Frontiers in Neural Circuits</i> , 2016, 10, 78.	1.4	44
32	Blood Oxygenation Changes Modulated by Coil Orientation During Prefrontal Transcranial Magnetic Stimulation. <i>Brain Stimulation</i> , 2013, 6, 576-581.	0.7	43
33	Impact of concurrent task performance on transcranial direct current stimulation (tDCS)-Induced changes in cortical physiology and working memory. <i>Cortex</i> , 2019, 113, 37-57.	1.1	43
34	Biophysical modeling of neural plasticity induced by transcranial magnetic stimulation. <i>Clinical Neurophysiology</i> , 2018, 129, 1230-1241.	0.7	42
35	The effects of NMDA receptor blockade on TMS-evoked EEG potentials from prefrontal and parietal cortex. <i>Scientific Reports</i> , 2020, 10, 3168.	1.6	42
36	Investigating TMSâ€™EEG Indices of Long-Interval Intracortical Inhibition at Different Interstimulus Intervals. <i>Brain Stimulation</i> , 2017, 10, 65-74.	0.7	41

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37	Voluntary movement and repetitive transcranial magnetic stimulation over human motor cortex. <i>Journal of Applied Physiology</i> , 2009, 106, 1593-1603.	1.2	38
38	Combining aerobic exercise and repetitive transcranial magnetic stimulation to improve brain function in health and disease. <i>Neuroscience and Biobehavioral Reviews</i> , 2017, 83, 11-20.	2.9	36
39	Eccentric Muscle Damage Has Variable Effects on Motor Unit Recruitment Thresholds and Discharge Patterns in Elbow Flexor Muscles. <i>Journal of Neurophysiology</i> , 2009, 102, 413-423.	0.9	35
40	Source-based artifact-rejection techniques available in TESA, an open-source TMS-EEG toolbox. <i>Brain Stimulation</i> , 2020, 13, 1349-1351.	0.7	35
41	Mindfulness meditators show altered distributions of early and late neural activity markers of attention in a response inhibition task. <i>PLoS ONE</i> , 2019, 14, e0203096.	1.1	34
42	A Review of Evidence Linking Disrupted Neural Plasticity to Schizophrenia. <i>Canadian Journal of Psychiatry</i> , 2013, 58, 86-92.	0.9	33
43	Neurobiological effects of transcranial direct current stimulation in younger adults, older adults and mild cognitive impairment. <i>Neuropsychologia</i> , 2019, 125, 51-61.	0.7	33
44	Neurophysiological effects of repetitive transcranial magnetic stimulation (rTMS) in treatment resistant depression. <i>Clinical Neurophysiology</i> , 2021, 132, 2306-2316.	0.7	32
45	The influence of endogenous estrogen on transcranial direct current stimulation: A preliminary study. <i>European Journal of Neuroscience</i> , 2018, 48, 2001-2012.	1.2	31
46	Resting state functional connectivity measures correlate with the response to anodal transcranial direct current stimulation. <i>European Journal of Neuroscience</i> , 2017, 45, 837-845.	1.2	30
47	Cerebral Cortical Activity Following Non-invasive Cerebellar Stimulation—a Systematic Review of Combined TMS and EEG Studies. <i>Cerebellum</i> , 2020, 19, 309-335.	1.4	29
48	Cortical inhibition assessed using paired-pulse TMS-EEG is increased in older adults. <i>Brain Stimulation</i> , 2018, 11, 545-557.	0.7	28
49	Assessing cerebellar-cortical connectivity using concurrent TMS-EEG: a feasibility study. <i>Journal of Neurophysiology</i> , 2021, 125, 1768-1787.	0.9	28
50	A Near Infra-Red Study of Blood Oxygenation Changes Resulting From High and Low Frequency Repetitive Transcranial Magnetic Stimulation. <i>Brain Stimulation</i> , 2013, 6, 922-924.	0.7	26
51	Neuroplasticity-Based Brain Stimulation Interventions in the Study and Treatment of Schizophrenia: A Review. <i>Canadian Journal of Psychiatry</i> , 2013, 58, 93-98.	0.9	26
52	Cortical inhibition within motor and frontal regions in alcohol dependence post-detoxification: A pilot TMS-EEG study. <i>World Journal of Biological Psychiatry</i> , 2016, 17, 547-556.	1.3	26
53	The correspondence between EMG and EEG measures of changes in cortical excitability following transcranial magnetic stimulation. <i>Journal of Physiology</i> , 2021, 599, 2907-2932.	1.3	25
54	The influence of endogenous estrogen on high-frequency prefrontal transcranial magnetic stimulation. <i>Brain Stimulation</i> , 2019, 12, 1271-1279.	0.7	24

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55	MAGIC: An open-source MATLAB toolbox for external control of transcranial magnetic stimulation devices. <i>Brain Stimulation</i> , 2018, 11, 1189-1191.	0.7	23
56	Mindfulness Meditators Show Enhanced Accuracy and Different Neural Activity During Working Memory. <i>Mindfulness</i> , 2020, 11, 1762-1781.	1.6	21
57	Impaired neuromuscular function during isometric, shortening, and lengthening contractions after exercise-induced damage to elbow flexor muscles. <i>Journal of Applied Physiology</i> , 2008, 105, 502-509.	1.2	20
58	Designing and comparing cleaning pipelines for TMS-EEG data: A theoretical overview and practical example. <i>Journal of Neuroscience Methods</i> , 2022, 371, 109494.	1.3	20
59	Mindfulness Meditators Do Not Show Differences in Electrophysiological Measures of Error Processing. <i>Mindfulness</i> , 2019, 10, 1360-1380.	1.6	17
60	Multi-day rTMS exerts site-specific effects on functional connectivity but does not influence associative memory performance. <i>Cortex</i> , 2020, 132, 423-440.	1.1	17
61	Single Pulse Transcranial Magnetic Stimulation-Electroencephalogram Reveals No Electrophysiological Abnormality in Adults with High-Functioning Autism Spectrum Disorder. <i>Journal of Child and Adolescent Psychopharmacology</i> , 2016, 26, 606-616.	0.7	16
62	Intensity dependent repetitive transcranial magnetic stimulation modulation of blood oxygenation. <i>Journal of Affective Disorders</i> , 2012, 136, 1243-1246.	2.0	14
63	Increased gamma connectivity during working memory retention following traumatic brain injury. <i>Brain Injury</i> , 2017, 31, 379-389.	0.6	14
64	Age-related decline of neuroplasticity to intermittent theta burst stimulation of the lateral prefrontal cortex and its relationship with late-life memory performance. <i>Clinical Neurophysiology</i> , 2020, 131, 2181-2191.	0.7	13
65	Load-dependent modulation of alpha oscillations during working memory encoding and retention in young and older adults. <i>Psychophysiology</i> , 2021, 58, e13719.	1.2	13
66	Comparison of the inhibitory response to tendon and cutaneous afferent stimulation in the human lower limb. <i>Journal of Neurophysiology</i> , 2012, 107, 564-572.	0.9	11
67	Transcranial magnetic stimulation and peristimulus frequencygram. <i>Clinical Neurophysiology</i> , 2012, 123, 1002-1009.	0.7	11
68	Modeling motor-evoked potentials from neural field simulations of transcranial magnetic stimulation. <i>Clinical Neurophysiology</i> , 2021, 132, 412-428.	0.7	10
69	The influence of sensory potentials on transcranial magnetic stimulation " Electroencephalography recordings. <i>Clinical Neurophysiology</i> , 2022, 140, 98-109.	0.7	10
70	Synaptic potentials contributing to reflex inhibition in gastrocnemius following tendon electrical stimulation. <i>Clinical Neurophysiology</i> , 2011, 122, 1190-1196.	0.7	9
71	Repetitive transcranial magnetic stimulation (rTMS) in autism spectrum disorder: protocol for a multicentre randomised controlled clinical trial. <i>BMJ Open</i> , 2021, 11, e046830.	0.8	9
72	Commentary: Utility of EEG measures of brain function in patients with acute stroke. <i>Frontiers in Human Neuroscience</i> , 2016, 10, 621.	1.0	5

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73	rTMS over human motor cortex can modulate tremor during movement. <i>European Journal of Neuroscience</i> , 2013, 37, 323-329.	1.2	4
74	Different Stimulation Frequencies Alter Synchronous Fluctuations in Motor Evoked Potential Amplitude of Intrinsic Hand Muscles—a TMS Study. <i>Frontiers in Human Neuroscience</i> , 2016, 10, 100.	1.0	4
75	The Role of Alpha Power in the Suppression of Anticipated Distractors During Verbal Working Memory. <i>Brain Topography</i> , 2021, 34, 102-109.	0.8	3
76	A single- and paired-pulse TMS-EEG investigation of the N100 and long interval cortical inhibition in autism spectrum disorder. <i>Brain Stimulation</i> , 2022, 15, 229-232.	0.7	3
77	Regulating consumer use of transcranial direct current stimulation devices. <i>Medical Journal of Australia</i> , 2018, 209, 8-9.	0.8	2
78	The effects of multi-day rTMS and cardiorespiratory fitness on working memory and local GABA concentration. <i>NeuroImage Reports</i> , 2021, 1, 100049.	0.5	2
79	Does predictive cueing of presentation time modulate alpha power and facilitate visual working memory performance in younger and older adults?. <i>Brain and Cognition</i> , 2022, 159, 105861.	0.8	2
80	70. Cortical Inhibition as a High Potential Biomarker of Response across Brain Stimulation Modalities in Treatment Resistant Depression. <i>Biological Psychiatry</i> , 2017, 81, S29.	0.7	0
81	S110. Is Depression an Illness of Cortical Activation?. <i>Biological Psychiatry</i> , 2019, 85, S340.	0.7	0
82	No evidence for changes in GABA concentration, functional connectivity, or working memory following continuous theta burst stimulation over dorsolateral prefrontal cortex. <i>NeuroImage Reports</i> , 2021, 1, 100061.	0.5	0