

# Mario Carmine Emiliano Rosanova

## List of Publications by Year in descending order

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Version: 2024-02-01

80  
papers

7,401  
citations

94269

37  
h-index

114278

63  
g-index

98  
all docs

98  
docs citations

98  
times ranked

5975  
citing authors

#	ARTICLE	IF	CITATIONS
1	TAAC - TMS Adaptable Auditory Control: A universal tool to mask TMS clicks. <i>Journal of Neuroscience Methods</i> , 2022, 370, 109491.	1.3	46
2	The rt-TEP tool: real-time visualization of TMS-Evoked Potentials to maximize cortical activation and minimize artifacts. <i>Journal of Neuroscience Methods</i> , 2022, 370, 109486.	1.3	46
3	Quantifying arousal and awareness in altered states of consciousness using interpretable deep learning. <i>Nature Communications</i> , 2022, 13, 1064.	5.8	29
4	EEG spectral exponent as a synthetic index for the longitudinal assessment of stroke recovery. <i>Clinical Neurophysiology</i> , 2022, 137, 92-101.	0.7	24
5	Measures of differentiation and integration: One step closer to consciousness. <i>Behavioral and Brain Sciences</i> , 2022, 45, e54.	0.4	0
6	Recording cortico-cortical evoked potentials of the human arcuate fasciculus under general anaesthesia. <i>Clinical Neurophysiology</i> , 2021, 132, 1966-1973.	0.7	17
7	Editorial: New Advances in Diagnostic Tools and Rehabilitation of Disorders of Consciousness in the Acute Phase. <i>Frontiers in Neurology</i> , 2021, 12, 770791.	1.1	1
8	Local sleep-like cortical reactivity in the awake brain after focal injury. <i>Brain</i> , 2020, 143, 3672-3684.	3.7	69
9	Autonomic responses to emotional linguistic stimuli and amplitude of low-frequency fluctuations predict outcome after severe brain injury. <i>NeuroImage: Clinical</i> , 2020, 28, 102356.	1.4	5
10	Clinical and advanced neurophysiology in the prognostic and diagnostic evaluation of disorders of consciousness: review of an IFCN-endorsed expert group. <i>Clinical Neurophysiology</i> , 2020, 131, 2736-2765.	0.7	103
11	Cortical Excitability, Plasticity and Oscillations in Major Psychiatric Disorders: A Neuronavigated TMS-EEG Based Approach. , 2020, , 209-222.		1
12	Methods for analysis of brain connectivity: An IFCN-sponsored review. <i>Clinical Neurophysiology</i> , 2019, 130, 1833-1858.	0.7	106
13	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
14	How to collect genuine TEPs: a Graphical User Interface to control data quality in real-time. <i>Brain Stimulation</i> , 2019, 12, 423.	0.7	2
15	A fast and general method to empirically estimate the complexity of brain responses to transcranial and intracranial stimulations. <i>Brain Stimulation</i> , 2019, 12, 1280-1289.	0.7	64
16	Neuroimaging Studies on Disorders of Consciousness: A Meta-Analytic Evaluation. <i>Journal of Clinical Medicine</i> , 2019, 8, 516.	1.0	16
17	Sleep-like bistability, loss of causality and complexity in the cerebral cortex of unresponsive wakefulness syndrome patients. <i>Brain Stimulation</i> , 2019, 12, 432.	0.7	0
18	TMS-EEG approach unveils brain mechanisms underlying conscious and unconscious face perception. <i>Brain Stimulation</i> , 2019, 12, 1010-1019.	0.7	4

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19	Excitability of the supplementary motor area in Parkinson's disease depends on subcortical damage. <i>Brain Stimulation</i> , 2019, 12, 152-160.	0.7	35
20	The spectral exponent of the resting EEG indexes the presence of consciousness during unresponsiveness induced by propofol, xenon, and ketamine. <i>NeuroImage</i> , 2019, 189, 631-644.	2.1	185
21	Human fronto-parietal response scattering subserves vigilance at night. <i>NeuroImage</i> , 2018, 175, 354-364.	2.1	18
22	Cognitive Enhancement Induced by Anodal tDCS Drives Circuit-Specific Cortical Plasticity. <i>Cerebral Cortex</i> , 2018, 28, 1132-1140.	1.6	99
23	Global structural integrity and effective connectivity in patients with disorders of consciousness. <i>Brain Stimulation</i> , 2018, 11, 358-365.	0.7	39
24	Sleep-like cortical OFF-periods disrupt causality and complexity in the brain of unresponsive wakefulness syndrome patients. <i>Nature Communications</i> , 2018, 9, 4427.	5.8	109
25	Meditation-induced modulation of brain response to transcranial magnetic stimulation. <i>Brain Stimulation</i> , 2018, 11, 1397-1400.	0.7	12
26	Tracking the Effect of Cathodal Transcranial Direct Current Stimulation on Cortical Excitability and Connectivity by Means of TMS-EEG. <i>Frontiers in Neuroscience</i> , 2018, 12, 319.	1.4	35
27	Propofol-induced unresponsiveness is associated with impaired feedforward connectivity in cortical hierarchy. <i>British Journal of Anaesthesia</i> , 2018, 121, 1084-1096.	1.5	31
28	Tracking Dynamic Interactions Between Structural and Functional Connectivity: A TMS/EEG-dMRI Study. <i>Brain Connectivity</i> , 2017, 7, 84-97.	0.8	23
29	Abnormal brain oscillations persist after recovery from bipolar depression. <i>European Psychiatry</i> , 2017, 41, 10-15.	0.1	22
30	Measures of metabolism and complexity in the brain of patients with disorders of consciousness. <i>NeuroImage: Clinical</i> , 2017, 14, 354-362.	1.4	133
31	The impact of GABAergic drugs on TMS-induced brain oscillations in human motor cortex. <i>NeuroImage</i> , 2017, 163, 1-12.	2.1	73
32	The spectral features of EEG responses to transcranial magnetic stimulation of the primary motor cortex depend on the amplitude of the motor evoked potentials. <i>PLoS ONE</i> , 2017, 12, e0184910.	1.1	104
33	The Potential of nTMS/EEG: Measuring Consciousness. , 2017, , 257-265.		0
34	Circadian regulation of human cortical excitability. <i>Nature Communications</i> , 2016, 7, 11828.	5.8	146
35	Timing of emotion representation in right and left occipital region: Evidence from combined TMS-EEG. <i>Brain and Cognition</i> , 2016, 106, 13-22.	0.8	23
36	Stratification of unresponsive patients by an independently validated index of brain complexity. <i>Annals of Neurology</i> , 2016, 80, 718-729.	2.8	309

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37	Circadian dynamics in measures of cortical excitation and inhibition balance. <i>Scientific Reports</i> , 2016, 6, 33661.	1.6	58
38	Exploring the Neurophysiological Correlates of Loss and Recovery of Consciousness: Perturbational Complexity. , 2016, , 93-104.		5
39	Functional Neuroimaging Techniques. , 2016, , 31-47.		1
40	Localizing the effects of anodal tDCS at the level of cortical sources: A Reply to Bailey et al., 2015. <i>Cortex</i> , 2016, 74, 323-328.	1.1	24
41	Shared reduction of oscillatory natural frequencies in bipolar disorder, major depressive disorder and schizophrenia. <i>Journal of Affective Disorders</i> , 2015, 184, 111-115.	2.0	47
42	Bistability breaks-off deterministic responses to intracortical stimulation during non-REM sleep. <i>NeuroImage</i> , 2015, 112, 105-113.	2.1	157
43	Consciousness and Complexity during Unresponsiveness Induced by Propofol, Xenon, and Ketamine. <i>Current Biology</i> , 2015, 25, 3099-3105.	1.8	308
44	TMS and drugs revisited 2014. <i>Clinical Neurophysiology</i> , 2015, 126, 1847-1868.	0.7	498
45	On the Cerebral Origin of EEG Responses to TMS: Insights From Severe Cortical Lesions. <i>Brain Stimulation</i> , 2015, 8, 142-149.	0.7	87
46	Transcranial magnetic stimulation combined with high-density EEG in altered states of consciousness. <i>Brain Injury</i> , 2014, 28, 1180-1189.	0.6	39
47	Neuropathological Evaluation of an 84-Year-Old Man After 422 ECT Treatments. <i>Journal of ECT</i> , 2014, 30, 248-250.	0.3	10
48	Directed Information Transfer in Scalp Electroencephalographic Recordings. <i>Clinical EEG and Neuroscience</i> , 2014, 45, 33-39.	0.9	32
49	Assessing consciousness in coma and related states using transcranial magnetic stimulation combined with electroencephalography. <i>Annales Francaises D'Anesthesie Et De Reanimation</i> , 2014, 33, 65-71.	1.4	41
50	Quantifying Cortical EEG Responses to TMS in (Un)consciousness. <i>Clinical EEG and Neuroscience</i> , 2014, 45, 40-49.	0.9	116
51	TDCS increases cortical excitability: Direct evidence from TMS-EEG. <i>Cortex</i> , 2014, 58, 99-111.	1.1	202
52	Human Cortical Excitability Increases with Time Awake. <i>Cerebral Cortex</i> , 2013, 23, 1-7.	1.6	229
53	Top-down interference and cortical responsiveness in face processing: A TMS-EEG study. <i>NeuroImage</i> , 2013, 76, 24-32.	2.1	39
54	Assessing the Effects of Electroconvulsive Therapy on Cortical Excitability by Means of Transcranial Magnetic Stimulation and Electroencephalography. <i>Brain Topography</i> , 2013, 26, 326-337.	0.8	77

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55	A Theoretically Based Index of Consciousness Independent of Sensory Processing and Behavior. <i>Science Translational Medicine</i> , 2013, 5, 198ra105.	5.8	839
56	Recovery of cortical effective connectivity and recovery of consciousness in vegetative patients. <i>Brain</i> , 2012, 135, 1308-1320.	3.7	400
57	P.2.e.002 Depression, cortical excitability and sleep deprivation: a TMS/EEG study. <i>European Neuropsychopharmacology</i> , 2012, 22, S276-S277.	0.3	0
58	Using Transcranial Magnetic Stimulation to Measure Cerebral Connectivity in Patients with Disorders of Consciousness. , 2012, , 79-84.		0
59	Computational Study of Rhythm Propagation Induced by TMS Stimuli in Different Brain Regions. <i>Studies in Computational Intelligence</i> , 2012, , 389-403.	0.7	0
60	A neural mass model of interconnected regions simulates rhythm propagation observed via TMS-EEG. <i>NeuroImage</i> , 2011, 57, 1045-1058.	2.1	76
61	Transcranial magnetic stimulation-evoked EEG/cortical potentials in physiological and pathological aging. <i>NeuroReport</i> , 2011, 22, 592-597.	0.6	62
62	Combining Transcranial Magnetic Stimulation with Electroencephalography to Study Human Cortical Excitability and Effective Connectivity. <i>NeuroMethods</i> , 2011, , 435-457.	0.2	15
63	Timeâ€‘frequency spectral analysis of TMS-evoked EEG oscillations by means of Hilbertâ€‘Huang transform. <i>Journal of Neuroscience Methods</i> , 2011, 198, 236-245.	1.3	47
64	Utilisation de la stimulation magnÃ©tique transcrÃ©nienne dans la mesure de la connectivitÃ© cÃ©rÃ©brale chez des patients en Ã©tat de conscience altÃ©rÃ©e. , 2011, , 85-89.		0
65	EEG Responses to TMS Are Sensitive to Changes in the Perturbation Parameters and Repeatable over Time. <i>PLoS ONE</i> , 2010, 5, e10281.	1.1	181
66	General indices to characterize the electrical response of the cerebral cortex to TMS. <i>NeuroImage</i> , 2010, 49, 1459-1468.	2.1	130
67	Augmentative repetitive navigated transcranial magnetic stimulation (rTMS) in drugâ€‘resistant bipolar depression. <i>Bipolar Disorders</i> , 2009, 11, 76-81.	1.1	121
68	Natural Frequencies of Human Corticothalamic Circuits. <i>Journal of Neuroscience</i> , 2009, 29, 7679-7685.	1.7	569
69	A perturbational approach for evaluating the brain's capacity for consciousness. <i>Progress in Brain Research</i> , 2009, 177, 201-214.	0.9	130
70	Reduced Evoked Gamma Oscillations in the Frontal Cortex in Schizophrenia Patients: A TMS/EEG Study. <i>American Journal of Psychiatry</i> , 2008, 165, 996-1005.	4.0	202
71	Neuronal mechanisms mediating the variability of somatosensory evoked potentials during sleep oscillations in cats. <i>Journal of Physiology</i> , 2005, 562, 569-582.	1.3	52
72	Pattern-Specific Associative Long-Term Potentiation Induced by a Sleep Spindle-Related Spike Train. <i>Journal of Neuroscience</i> , 2005, 25, 9398-9405.	1.7	397

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73	EEG Slow ( $\sim 1$ Hz) Waves Are Associated With Nonstationarity of Thalamo-Cortical Sensory Processing in the Sleeping Human. <i>Journal of Neurophysiology</i> , 2003, 89, 1205-1213.	0.9	103
74	Consciousness and complexity: a consilience of evidence. <i>Neuroscience of Consciousness</i> , 0, , .	1.4	41
75	Cortical excitability dynamics during extended wakefulness set PVT performance. <i>Frontiers in Human Neuroscience</i> , 0, 8, .	1.0	0
76	Human cortical excitability depends on time awake and circadian phase. <i>Frontiers in Human Neuroscience</i> , 0, 8, .	1.0	0
77	Sleep slow-wave activity predicts changes in human cortical excitability during extended wakefulness. <i>Frontiers in Human Neuroscience</i> , 0, 8, .	1.0	0
78	PCI & auditory ERPs for the quantification of the level of consciousness: an EEG-based methods comparison study applied to disorders of consciousness.. <i>Frontiers in Neuroscience</i> , 0, 12, .	1.4	0
79	Local brain-state dependency of effective connectivity: a pilot TMS-EEG study. <i>Open Research Europe</i> , 0, 2, 45.	2.0	0
80	Local brain-state dependency of effective connectivity: a pilot TMS-EEG study. <i>Open Research Europe</i> , 0, 2, 45.	2.0	3