

Mario Rosanova

List of Publications by Year in descending order

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Version: 2024-02-01

58
papers

6,663
citations

117625

34
h-index

206112

48
g-index

64
all docs

64
docs citations

64
times ranked

5532
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	2.5	46
2	Quantifying arousal and awareness in altered states of consciousness using interpretable deep learning. <i>Nature Communications</i> , 2022, 13, 1064.	12.8	29
3	Measures of differentiation and integration: One step closer to consciousness. <i>Behavioral and Brain Sciences</i> , 2022, 45, e54.	0.7	0
4	Local sleep-like cortical reactivity in the awake brain after focal injury. <i>Brain</i> , 2020, 143, 3672-3684.	7.6	69
5	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.	2.7	5
6	Cortical Excitability, Plasticity and Oscillations in Major Psychiatric Disorders: A Neuronavigated TMS-EEG Based Approach. , 2020, , 209-222.		1
7	Reproducibility in TMS-EEG studies: A call for data sharing, standard procedures and effective experimental control. <i>Brain Stimulation</i> , 2019, 12, 787-790.	1.6	106
8	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.	1.6	64
9	TMS-EEG approach unveils brain mechanisms underlying conscious and unconscious face perception. <i>Brain Stimulation</i> , 2019, 12, 1010-1019.	1.6	4
10	Excitability of the supplementary motor area in Parkinson's disease depends on subcortical damage. <i>Brain Stimulation</i> , 2019, 12, 152-160.	1.6	35
11	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.	4.2	185
12	Human fronto-parietal response scattering subserves vigilance at night. <i>NeuroImage</i> , 2018, 175, 354-364.	4.2	18
13	Cognitive Enhancement Induced by Anodal tDCS Drives Circuit-Specific Cortical Plasticity. <i>Cerebral Cortex</i> , 2018, 28, 1132-1140.	2.9	99
14	Global structural integrity and effective connectivity in patients with disorders of consciousness. <i>Brain Stimulation</i> , 2018, 11, 358-365.	1.6	39
15	Meditation-induced modulation of brain response to transcranial magnetic stimulation. <i>Brain Stimulation</i> , 2018, 11, 1397-1400.	1.6	12
16	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.	2.8	35
17	Tracking Dynamic Interactions Between Structural and Functional Connectivity: A TMS/EEG-dMRI Study. <i>Brain Connectivity</i> , 2017, 7, 84-97.	1.7	23
18	Measures of metabolism and complexity in the brain of patients with disorders of consciousness. <i>NeuroImage: Clinical</i> , 2017, 14, 354-362.	2.7	133

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19	The impact of GABAergic drugs on TMS-induced brain oscillations in human motor cortex. <i>NeuroImage</i> , 2017, 163, 1-12.	4.2	73
20	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.	2.5	104
21	The Potential of nTMS/EEG: Measuring Consciousness. , 2017, , 257-265.		0
22	Circadian regulation of human cortical excitability. <i>Nature Communications</i> , 2016, 7, 11828.	12.8	146
23	Timing of emotion representation in right and left occipital region: Evidence from combined TMS-EEG. <i>Brain and Cognition</i> , 2016, 106, 13-22.	1.8	23
24	Stratification of unresponsive patients by an independently validated index of brain complexity. <i>Annals of Neurology</i> , 2016, 80, 718-729.	5.3	309
25	Circadian dynamics in measures of cortical excitation and inhibition balance. <i>Scientific Reports</i> , 2016, 6, 33661.	3.3	58
26	Exploring the Neurophysiological Correlates of Loss and Recovery of Consciousness: Perturbational Complexity. , 2016, , 93-104.		5
27	Functional Neuroimaging Techniques. , 2016, , 31-47.		1
28	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.	2.4	24
29	Shared reduction of oscillatory natural frequencies in bipolar disorder, major depressive disorder and schizophrenia. <i>Journal of Affective Disorders</i> , 2015, 184, 111-115.	4.1	47
30	Bistability breaks-off deterministic responses to intracortical stimulation during non-REM sleep. <i>NeuroImage</i> , 2015, 112, 105-113.	4.2	157
31	Consciousness and Complexity during Unresponsiveness Induced by Propofol, Xenon, and Ketamine. <i>Current Biology</i> , 2015, 25, 3099-3105.	3.9	308
32	TMS and drugs revisited 2014. <i>Clinical Neurophysiology</i> , 2015, 126, 1847-1868.	1.5	498
33	On the Cerebral Origin of EEG Responses to TMS: Insights From Severe Cortical Lesions. <i>Brain Stimulation</i> , 2015, 8, 142-149.	1.6	87
34	Transcranial magnetic stimulation combined with high-density EEG in altered states of consciousness. <i>Brain Injury</i> , 2014, 28, 1180-1189.	1.2	39
35	Directed Information Transfer in Scalp Electroencephalographic Recordings. <i>Clinical EEG and Neuroscience</i> , 2014, 45, 33-39.	1.7	32
36	Quantifying Cortical EEG Responses to TMS in (Un)consciousness. <i>Clinical EEG and Neuroscience</i> , 2014, 45, 40-49.	1.7	116

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37	TDCS increases cortical excitability: Direct evidence from TMS-EEG. <i>Cortex</i> , 2014, 58, 99-111.	2.4	202
38	Human Cortical Excitability Increases with Time Awake. <i>Cerebral Cortex</i> , 2013, 23, 1-7.	2.9	229
39	Top-down interference and cortical responsiveness in face processing: A TMS-EEG study. <i>NeuroImage</i> , 2013, 76, 24-32.	4.2	39
40	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.	1.8	77
41	A Theoretically Based Index of Consciousness Independent of Sensory Processing and Behavior. <i>Science Translational Medicine</i> , 2013, 5, 198ra105.	12.4	839
42	Recovery of cortical effective connectivity and recovery of consciousness in vegetative patients. <i>Brain</i> , 2012, 135, 1308-1320.	7.6	400
43	Using Transcranial Magnetic Stimulation to Measure Cerebral Connectivity in Patients with Disorders of Consciousness. , 2012, , 79-84.		0
44	Computational Study of Rhythm Propagation Induced by TMS Stimuli in Different Brain Regions. <i>Studies in Computational Intelligence</i> , 2012, , 389-403.	0.9	0
45	Transcranial magnetic stimulation-evoked EEG/cortical potentials in physiological and pathological aging. <i>NeuroReport</i> , 2011, 22, 592-597.	1.2	62
46	Combining Transcranial Magnetic Stimulation with Electroencephalography to Study Human Cortical Excitability and Effective Connectivity. <i>NeuroMethods</i> , 2011, , 435-457.	0.3	15
47	Time-frequency spectral analysis of TMS-evoked EEG oscillations by means of Hilbert-Huang transform. <i>Journal of Neuroscience Methods</i> , 2011, 198, 236-245.	2.5	47
48	EEG Responses to TMS Are Sensitive to Changes in the Perturbation Parameters and Repeatable over Time. <i>PLoS ONE</i> , 2010, 5, e10281.	2.5	181
49	General indices to characterize the electrical response of the cerebral cortex to TMS. <i>NeuroImage</i> , 2010, 49, 1459-1468.	4.2	130
50	Natural Frequencies of Human Corticothalamic Circuits. <i>Journal of Neuroscience</i> , 2009, 29, 7679-7685.	3.6	569
51	A perturbational approach for evaluating the brain's capacity for consciousness. <i>Progress in Brain Research</i> , 2009, 177, 201-214.	1.4	130
52	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.	7.2	202
53	Neuronal mechanisms mediating the variability of somatosensory evoked potentials during sleep oscillations in cats. <i>Journal of Physiology</i> , 2005, 562, 569-582.	2.9	52
54	Pattern-Specific Associative Long-Term Potentiation Induced by a Sleep Spindle-Related Spike Train. <i>Journal of Neuroscience</i> , 2005, 25, 9398-9405.	3.6	397

#	ARTICLE	IF	CITATIONS
55	EEG Slow (≈ 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.	1.8	103
56	Consciousness and complexity: a consilience of evidence. <i>Neuroscience of Consciousness</i> , 0, , .	2.6	41
57	Local brain-state dependency of effective connectivity: a pilot TMS-EEG study. <i>Open Research Europe</i> , 0, 2, 45.	2.0	0
58	Local brain-state dependency of effective connectivity: a pilot TMS-EEG study. <i>Open Research Europe</i> , 0, 2, 45.	2.0	3