Mario Rosanova

List of Publications by Year
in descending order

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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	A Theoretically Based Index of Consciousness Independent of Sensory Processing and Behavior. Science Translational Medicine, 2013, 5, 198ra105.	12.4	839
2	Natural Frequencies of Human Corticothalamic Circuits. Journal of Neuroscience, 2009, 29, 7679-7685.	3.6	569
3	TMS and drugs revisited 2014. Clinical Neurophysiology, 2015, 126, 1847-1868.	1.5	498
4	Recovery of cortical effective connectivity and recovery of consciousness in vegetative patients. Brain, 2012, 135, 1308-1320.	7.6	400
5	Pattern-Specific Associative Long-Term Potentiation Induced by a Sleep Spindle-Related Spike Train. Journal of Neuroscience, 2005, 25, 9398-9405.	3.6	397
6	Stratification of unresponsive patients by an independently validated index of brain complexity. Annals of Neurology, 2016, 80, 718-729.	5.3	309
7	Consciousness and Complexity during Unresponsiveness Induced by Propofol, Xenon, and Ketamine. Current Biology, 2015, 25, 3099-3105.	3.9	308
8	Human Cortical Excitability Increases with Time Awake. Cerebral Cortex, 2013, 23, 1-7.	2.9	229
9	Reduced Evoked Gamma Oscillations in the Frontal Cortex in Schizophrenia Patients: A TMS/EEG Study. American Journal of Psychiatry, 2008, 165, 996-1005.	7.2	202
10	TDCS increases cortical excitability: Direct evidence from TMSâ€“EEG. Cortex, 2014, 58, 99-111.	2.4	202
11	The spectral exponent of the resting EEG indexes the presence of consciousness during unresponsiveness induced by propofol, xenon, and ketamine. NeuroImage, 2019, 189, 631-644.	4.2	185
12	EEG Responses to TMS Are Sensitive to Changes in the Perturbation Parameters and Repeatable over Time. PLoS ONE, 2010, 5, e10281.	2.5	181
13	Bistability breaks-off deterministic responses to intracortical stimulation during non-REM sleep. NeuroImage, 2015, 112, 105-113.	4.2	157
14	Circadian regulation of human cortical excitability. Nature Communications, 2016, 7, 11828.	12.8	146
15	Measures of metabolism and complexity in the brain of patients with disorders of consciousness. NeuroImage: Clinical, 2017, 14, 354-362.	2.7	133
16	A perturbational approach for evaluating the brain's capacity for consciousness. Progress in Brain Research, 2009, 177, 201-214.	1.4	130
17	General indices to characterize the electrical response of the cerebral cortex to TMS. NeuroImage, 2010, 49, 1459-1468.	4.2	130
18	Quantifying Cortical EEG Responses to TMS in (Un)consciousness. Clinical EEG and Neuroscience, 2014, 45, 40-49.	1.7	116

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19	Reproducibility in TMSâ€“EEG studies: A call for data sharing, standard procedures and effective experimental control. Brain Stimulation, 2019, 12, 787-790.	1.6	106
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. PLoS ONE, 2017, 12, e0184910.	2.5	104
21	EEG Slow (â^¼1 Hz) Waves Are Associated With Nonstationarity of Thalamo-Cortical Sensory Processing in the Sleeping Human. Journal of Neurophysiology, 2003, 89, 1205-1213.	1.8	103
22	Cognitive Enhancement Induced by Anodal tDCS Drives Circuit-Specific Cortical Plasticity. Cerebral Cortex, 2018, 28, 1132-1140.	2.9	99
23	On the Cerebral Origin of EEG Responses to TMS: Insights From Severe Cortical Lesions. Brain Stimulation, 2015, 8, 142-149.	1.6	87
24	Assessing the Effects of Electroconvulsive Therapy on Cortical Excitability by Means of Transcranial Magnetic Stimulation and Electroencephalography. Brain Topography, 2013, 26, 326-337.	1.8	77
25	The impact of GABAergic drugs on TMS-induced brain oscillations in human motor cortex. NeuroImage, 2017, 163, 1-12.	4.2	73
26	Local sleep-like cortical reactivity in the awake brain after focal injury. Brain, 2020, 143, 3672-3684.	7.6	69
27	A fast and general method to empirically estimate the complexity of brain responses to transcranial and intracranial stimulations. Brain Stimulation, 2019, 12, 1280-1289.	1.6	64
28	Transcranial magnetic stimulation-evoked EEG/cortical potentials in physiological and pathological aging. NeuroReport, 2011, 22, 592-597.	1.2	62
29	Circadian dynamics in measures of cortical excitation and inhibition balance. Scientific Reports, 2016, 6, 33661.	3.3	58
30	Neuronal mechanisms mediating the variability of somatosensory evoked potentials during sleep oscillations in cats. Journal of Physiology, 2005, 562, 569-582.	2.9	52
31	Timeâ€“frequency spectral analysis of TMS-evoked EEG oscillations by means of Hilbertâ€“Huang transform. Journal of Neuroscience Methods, 2011, 198, 236-245.	2.5	47
32	Shared reduction of oscillatory natural frequencies in bipolar disorder, major depressive disorder and schizophrenia. Journal of Affective Disorders, 2015, 184, 111-115.	4.1	47
33	The rt-TEP tool: real-time visualization of TMS-Evoked Potentials to maximize cortical activation and minimize artifacts. Journal of Neuroscience Methods, 2022, 370, 109486.	2.5	46
34	Consciousness and complexity: a consilience of evidence. Neuroscience of Consciousness, 0, , .	2.6	41
35	Top-down interference and cortical responsiveness in face processing: A TMS-EEG study. NeuroImage, 2013, 76, 24-32.	4.2	39
36	Transcranial magnetic stimulation combined with high-density EEG in altered states of consciousness. Brain Injury, 2014, 28, 1180-1189.	1.2	39

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37	Global structural integrity and effective connectivity in patients with disorders of consciousness. Brain Stimulation, 2018, 11, 358-365.	1.6	39
38	Tracking the Effect of Cathodal Transcranial Direct Current Stimulation on Cortical Excitability and Connectivity by Means of TMS-EEG. Frontiers in Neuroscience, 2018, 12, 319.	2.8	35
39	Excitability of the supplementary motor area in Parkinson's disease depends on subcortical damage. Brain Stimulation, 2019, 12, 152-160.	1.6	35
40	Directed Information Transfer in Scalp Electroencephalographic Recordings. Clinical EEG and Neuroscience, 2014, 45, 33-39.	1.7	32
41	Quantifying arousal and awareness in altered states of consciousness using interpretable deep learning. Nature Communications, 2022, 13, 1064.	12.8	29
42	Localizing the effects of anodal tDCS at the level ofÂcortical sources: A Reply to Bailey etÂal., 2015. Cortex, 2016, 74, 323-328.	2.4	24
43	Timing of emotion representation in right and left occipital region: Evidence from combined TMS-EEG. Brain and Cognition, 2016, 106, 13-22.	1.8	23
44	Tracking Dynamic Interactions Between Structural and Functional Connectivity: A TMS/EEG-dMRI Study. Brain Connectivity, 2017, 7, 84-97.	1.7	23
45	Human fronto-parietal response scattering subserves vigilance at night. NeuroImage, 2018, 175, 354-364.	4.2	18
46	Combining Transcranial Magnetic Stimulation with Electroencephalography to Study Human Cortical Excitability and Effective Connectivity. Neuromethods, 2011, , 435-457.	0.3	15
47	Meditation-induced modulation of brain response to transcranial magnetic stimulation. Brain Stimulation, 2018, 11, 1397-1400.	1.6	12
48	Exploring the Neurophysiological Correlates of Loss and Recovery of Consciousness: Perturbational Complexity. , 2016, , 93-104.		5
49	Autonomic responses to emotional linguistic stimuli and amplitude of low-frequency fluctuations predict outcome after severe brain injury. NeuroImage: Clinical, 2020, 28, 102356.	2.7	5
50	TMS-EEG approach unveils brain mechanisms underlying conscious and unconscious face perception. Brain Stimulation, 2019, 12, 1010-1019.	1.6	4
51	Local brain-state dependency of effective connectivity: a pilot TMSâ€“EEG study. Open Research Europe, 0, 2, 45.	2.0	3
52	Functional Neuroimaging Techniques. , 2016, , 31-47.		1
53	Cortical Excitability, Plasticity and Oscillations in Major Psychiatric Disorders: A Neuronavigated TMS-EEG Based Approach. , 2020, , 209-222.		1
54	Using Transcranial Magnetic Stimulation to Measure Cerebral Connectivity in Patients with Disorders of Consciousness. , 2012, , 79-84.		0

#	Article	IF	Citations
55	Computational Study of Rhythm Propagation Induced by TMS Stimuli in Different Brain Regions. Studies in Computational Intelligence, 2012, , 389-403.	0.9	0
56	The Potential of nTMS/EEG: Measuring Consciousness. , 2017, , 257-265.		0
57	Local brain-state dependency of effective connectivity: a pilot TMSâ€“EEG study. Open Research Europe, 0, 2, 45.	2.0	0
58	Measures of differentiation and integration: One step closer to consciousness. Behavioral and Brain Sciences, 2022, 45, e54.	0.7	0