

Mario Carmine Emiliano Rosanova

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1190590/publications.pdf>

Version: 2024-02-01

80
papers

7,401
citations

94433

37
h-index

114465

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. | 2.5 | 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. | 2.5 | 46 |
| 3 | Quantifying arousal and awareness in altered states of consciousness using interpretable deep learning. <i>Nature Communications</i> , 2022, 13, 1064. | 12.8 | 29 |
| 4 | EEG spectral exponent as a synthetic index for the longitudinal assessment of stroke recovery. <i>Clinical Neurophysiology</i> , 2022, 137, 92-101. | 1.5 | 24 |
| 5 | Measures of differentiation and integration: One step closer to consciousness. <i>Behavioral and Brain Sciences</i> , 2022, 45, e54. | 0.7 | 0 |
| 6 | Recording cortico-cortical evoked potentials of the human arcuate fasciculus under general anaesthesia. <i>Clinical Neurophysiology</i> , 2021, 132, 1966-1973. | 1.5 | 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. | 2.4 | 1 |
| 8 | Local sleep-like cortical reactivity in the awake brain after focal injury. <i>Brain</i> , 2020, 143, 3672-3684. | 7.6 | 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. | 2.7 | 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. | 1.5 | 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. | 1.5 | 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. | 1.6 | 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. | 1.6 | 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. | 1.6 | 64 |
| 16 | Neuroimaging Studies on Disorders of Consciousness: A Meta-Analytic Evaluation. <i>Journal of Clinical Medicine</i> , 2019, 8, 516. | 2.4 | 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. | 1.6 | 0 |
| 18 | TMS-EEG approach unveils brain mechanisms underlying conscious and unconscious face perception. <i>Brain Stimulation</i> , 2019, 12, 1010-1019. | 1.6 | 4 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 19 | Excitability of the supplementary motor area in Parkinson's disease depends on subcortical damage. Brain Stimulation, 2019, 12, 152-160. | 1.6 | 35 |
| 20 | The spectral exponent of the resting EEG indexes the presence of consciousness during unresponsiveness induced by propofol, xenon, and ketamine. Neurolmage, 2019, 189, 631-644. | 4.2 | 185 |
| 21 | Human fronto-parietal response scattering subserves vigilance at night. Neurolmage, 2018, 175, 354-364. | 4.2 | 18 |
| 22 | Cognitive Enhancement Induced by Anodal tDCS Drives Circuit-Specific Cortical Plasticity. Cerebral Cortex, 2018, 28, 1132-1140. | 2.9 | 99 |
| 23 | Global structural integrity and effective connectivity in patients with disorders of consciousness. Brain Stimulation, 2018, 11, 358-365. | 1.6 | 39 |
| 24 | Sleep-like cortical OFF-periods disrupt causality and complexity in the brain of unresponsive wakefulness syndrome patients. Nature Communications, 2018, 9, 4427. | 12.8 | 109 |
| 25 | Meditation-induced modulation of brain response to transcranial magnetic stimulation. Brain Stimulation, 2018, 11, 1397-1400. | 1.6 | 12 |
| 26 | 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 |
| 27 | Propofol-induced unresponsiveness is associated with impaired feedforward connectivity in cortical hierarchy. British Journal of Anaesthesia, 2018, 121, 1084-1096. | 3.4 | 31 |
| 28 | Tracking Dynamic Interactions Between Structural and Functional Connectivity: A TMS/EEG-dMRI Study. Brain Connectivity, 2017, 7, 84-97. | 1.7 | 23 |
| 29 | Abnormal brain oscillations persist after recovery from bipolar depression. European Psychiatry, 2017, 41, 10-15. | 0.2 | 22 |
| 30 | Measures of metabolism and complexity in the brain of patients with disorders of consciousness. Neurolmage: Clinical, 2017, 14, 354-362. | 2.7 | 133 |
| 31 | The impact of GABAergic drugs on TMS-induced brain oscillations in human motor cortex. Neurolmage, 2017, 163, 1-12. | 4.2 | 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. PLoS ONE, 2017, 12, e0184910. | 2.5 | 104 |
| 33 | The Potential of nTMS/EEG: Measuring Consciousness. , 2017, , 257-265. | | 0 |
| 34 | Circadian regulation of human cortical excitability. Nature Communications, 2016, 7, 11828. | 12.8 | 146 |
| 35 | 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 |
| 36 | Stratification of unresponsive patients by an independently validated index of brain complexity. Annals of Neurology, 2016, 80, 718-729. | 5.3 | 309 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | Circadian dynamics in measures of cortical excitation and inhibition balance. Scientific Reports, 2016, 6, 33661. | 3.3 | 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 ofÂcortical sources: A Reply to Bailey etÂal., 2015. Cortex, 2016, 74, 323-328. | 2.4 | 24 |
| 41 | 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 |
| 42 | Bistability breaks-off deterministic responses to intracortical stimulation during non-REM sleep. NeuroImage, 2015, 112, 105-113. | 4.2 | 157 |
| 43 | Consciousness and Complexity during Unresponsiveness Induced by Propofol, Xenon, and Ketamine. Current Biology, 2015, 25, 3099-3105. | 3.9 | 308 |
| 44 | TMS and drugs revisited 2014. Clinical Neurophysiology, 2015, 126, 1847-1868. | 1.5 | 498 |
| 45 | On the Cerebral Origin of EEG Responses to TMS: Insights From Severe Cortical Lesions. Brain Stimulation, 2015, 8, 142-149. | 1.6 | 87 |
| 46 | Transcranial magnetic stimulation combined with high-density EEG in altered states of consciousness. Brain Injury, 2014, 28, 1180-1189. | 1.2 | 39 |
| 47 | Neuropathological Evaluation of an 84-Year-Old Man After 422 ECT Treatments. Journal of ECT, 2014, 30, 248-250. | 0.6 | 10 |
| 48 | Directed Information Transfer in Scalp Electroencephalographic Recordings. Clinical EEG and Neuroscience, 2014, 45, 33-39. | 1.7 | 32 |
| 49 | Assessing consciousness in coma and related states using transcranial magnetic stimulation combined with electroencephalography. Annales Francaises D'Anesthesie Et De Reanimation, 2014, 33, 65-71. | 1.4 | 41 |
| 50 | Quantifying Cortical EEG Responses to TMS in (Un)consciousness. Clinical EEG and Neuroscience, 2014, 45, 40-49. | 1.7 | 116 |
| 51 | TDCS increases cortical excitability: Direct evidence from TMSâ€EEG. Cortex, 2014, 58, 99-111. | 2.4 | 202 |
| 52 | Human Cortical Excitability Increases with Time Awake. Cerebral Cortex, 2013, 23, 1-7. | 2.9 | 229 |
| 53 | Top-down interference and cortical responsiveness in face processing: A TMS-EEG study. NeuroImage, 2013, 76, 24-32. | 4.2 | 39 |
| 54 | 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 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 55 | A Theoretically Based Index of Consciousness Independent of Sensory Processing and Behavior. Science Translational Medicine, 2013, 5, 198ra105. | 12.4 | 839 |
| 56 | Recovery of cortical effective connectivity and recovery of consciousness in vegetative patients. Brain, 2012, 135, 1308-1320. | 7.6 | 400 |
| 57 | P.2.e.002 Depression, cortical excitability and sleep deprivation: a TMS/EEG study. European Neuropsychopharmacology, 2012, 22, S276-S277. | 0.7 | 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. Studies in Computational Intelligence, 2012, , 389-403. | 0.9 | 0 |
| 60 | A neural mass model of interconnected regions simulates rhythm propagation observed via TMS-EEG. NeuroImage, 2011, 57, 1045-1058. | 4.2 | 76 |
| 61 | Transcranial magnetic stimulation-evoked EEG/cortical potentials in physiological and pathological aging. NeuroReport, 2011, 22, 592-597. | 1.2 | 62 |
| 62 | Combining Transcranial Magnetic Stimulation with Electroencephalography to Study Human Cortical Excitability and Effective Connectivity. Neuromethods, 2011, , 435-457. | 0.3 | 15 |
| 63 | 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 |
| 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. PLoS ONE, 2010, 5, e10281. | 2.5 | 181 |
| 66 | General indices to characterize the electrical response of the cerebral cortex to TMS. NeuroImage, 2010, 49, 1459-1468. | 4.2 | 130 |
| 67 | Augmentative repetitive navigated transcranial magnetic stimulation (rTMS) in drugâ€“resistant bipolar depression. Bipolar Disorders, 2009, 11, 76-81. | 1.9 | 121 |
| 68 | Natural Frequencies of Human Corticothalamic Circuits. Journal of Neuroscience, 2009, 29, 7679-7685. | 3.6 | 569 |
| 69 | A perturbational approach for evaluating the brain's capacity for consciousness. Progress in Brain Research, 2009, 177, 201-214. | 1.4 | 130 |
| 70 | 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 |
| 71 | Neuronal mechanisms mediating the variability of somatosensory evoked potentials during sleep oscillations in cats. Journal of Physiology, 2005, 562, 569-582. | 2.9 | 52 |
| 72 | Pattern-Specific Associative Long-Term Potentiation Induced by a Sleep Spindle-Related Spike Train. Journal of Neuroscience, 2005, 25, 9398-9405. | 3.6 | 397 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 73 | EEG Slow (~ 1 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 |
| 74 | Consciousness and complexity: a consilience of evidence. Neuroscience of Consciousness, 0, , . | 2.6 | 41 |
| 75 | Cortical excitability dynamics during extended wakefulness set PVT performance. Frontiers in Human Neuroscience, 0, 8, . | 2.0 | 0 |
| 76 | Human cortical excitability depends on time awake and circadian phase. Frontiers in Human Neuroscience, 0, 8, . | 2.0 | 0 |
| 77 | Sleep slow-wave activity predicts changes in human cortical excitability during extended wakefulness. Frontiers in Human Neuroscience, 0, 8, . | 2.0 | 0 |
| 78 | PCI & auditory ERPs for the quantification of the level of consciousness: an EEG-based methods comparison study applied to disorders of consciousness.. Frontiers in Neuroscience, 0, 12, . | 2.8 | 0 |
| 79 | Local brain-state dependency of effective connectivity: a pilot TMS-EEG study. Open Research Europe, 0, 2, 45. | 2.0 | 0 |
| 80 | Local brain-state dependency of effective connectivity: a pilot TMS-EEG study. Open Research Europe, 0, 2, 45. | 2.0 | 3 |