

# Paolo Belardinelli

## List of Publications by Year in descending order

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Version: 2024-02-01

53  
papers

2,942  
citations

257357

24  
h-index

223716

46  
g-index

58  
all docs

58  
docs citations

58  
times ranked

3219  
citing authors

#	ARTICLE	IF	CITATIONS
1	Temporal dynamics of spontaneous MEG activity in brain networks. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 6040-6045.	3.3	664
2	Real-time EEG-defined excitability states determine efficacy of TMS-induced plasticity in human motor cortex. Brain Stimulation, 2018, 11, 374-389.	0.7	310
3	TMS-EEG Signatures of GABAergic Neurotransmission in the Human Cortex. Journal of Neuroscience, 2014, 34, 5603-5612.	1.7	282
4	Closed-Loop Neuroscience and Non-Invasive Brain Stimulation: A Tale of Two Loops. Frontiers in Cellular Neuroscience, 2016, 10, 92.	1.8	151
5	Characterization of GABAB-receptor mediated neurotransmission in the human cortex by paired-pulse TMS-EEG. NeuroImage, 2014, 103, 152-162.	2.1	123
6	Reproducibility in TMS-EEG studies: A call for data sharing, standard procedures and effective experimental control. Brain Stimulation, 2019, 12, 787-790.	0.7	106
7	Comparison of cortical EEG responses to realistic sham versus real TMS of human motor cortex. Brain Stimulation, 2018, 11, 1322-1330.	0.7	89
8	Effects of the Selective $\hat{1}5$ -GABAAR Antagonist S44819 on Excitability in the Human Brain: A TMS-EMG and TMS-EEG Phase I Study. Journal of Neuroscience, 2016, 36, 12312-12320.	1.7	85
9	Source Reconstruction Accuracy of MEG and EEG Bayesian Inversion Approaches. PLoS ONE, 2012, 7, e51985.	1.1	83
10	Brain oscillation-synchronized stimulation of the left dorsolateral prefrontal cortex in depression using real-time EEG-triggered TMS. Brain Stimulation, 2020, 13, 197-205.	0.7	80
11	The impact of GABAergic drugs on TMS-induced brain oscillations in human motor cortex. NeuroImage, 2017, 163, 1-12.	2.1	73
12	Plasticity of premotor cortico-muscular coherence in severely impaired stroke patients with hand paralysis. NeuroImage: Clinical, 2017, 14, 726-733.	1.4	68
13	TMS-EEG signatures of glutamatergic neurotransmission in human cortex. Scientific Reports, 2021, 11, 8159.	1.6	50
14	Phase Synchronicity of $\hat{1}4$ -Rhythm Determines Efficacy of Interhemispheric Communication Between Human Motor Cortices. Journal of Neuroscience, 2018, 38, 10525-10534.	1.7	49
15	Modulation of cortical responses by transcranial direct current stimulation of dorsolateral prefrontal cortex: A resting-state EEG and TMS-EEG study. Brain Stimulation, 2018, 11, 1024-1032.	0.7	48
16	$\hat{1}4$ -Rhythm Extracted With Personalized EEG Filters Correlates With Corticospinal Excitability in Real-Time Phase-Triggered EEG-TMS. Frontiers in Neuroscience, 2018, 12, 954.	1.4	46
17	Steady-state responses in MEG demonstrate information integration within but not across the auditory and visual senses. NeuroImage, 2012, 60, 1478-1489.	2.1	44
18	Phase of sensorimotor $\hat{1}4$ -oscillation modulates cortical responses to transcranial magnetic stimulation of the human motor cortex. Journal of Physiology, 2019, 597, 5671-5686.	1.3	44

#	ARTICLE	IF	CITATIONS
19	Short-interval and long-interval intracortical inhibition of TMS-evoked EEG potentials. <i>Brain Stimulation</i> , 2018, 11, 818-827.	0.7	43
20	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
21	Recording brain responses to TMS of primary motor cortex by EEG – utility of an optimized sham procedure. <i>NeuroImage</i> , 2021, 245, 118708.	2.1	41
22	Corticomuscular Coherence Is Tuned to the Spontaneous Rhythmicity of Speech at 2–3 Hz. <i>Journal of Neuroscience</i> , 2012, 32, 3786-3790.	1.7	40
23	Weighted Phase Lag Index and Graph Analysis: Preliminary Investigation of Functional Connectivity during Resting State in Children. <i>Computational and Mathematical Methods in Medicine</i> , 2012, 2012, 1-8.	0.7	36
24	Early corticospinal tract damage in prodromal SCA2 revealed by EEG-EMG and EMG-EMG coherence. <i>Clinical Neurophysiology</i> , 2017, 128, 2493-2502.	0.7	29
25	Detecting tones in complex auditory scenes. <i>NeuroImage</i> , 2015, 122, 203-213.	2.1	28
26	Cortical Excitability and Interhemispheric Connectivity in Early Relapsing/Remitting Multiple Sclerosis Studied With TMS-EEG. <i>Frontiers in Neuroscience</i> , 2018, 12, 393.	1.4	28
27	An Unsupervised Online Spike-Sorting Framework. <i>International Journal of Neural Systems</i> , 2016, 26, 1550042.	3.2	24
28	Musical Sonification of Arm Movements in Stroke Rehabilitation Yields Limited Benefits. <i>Frontiers in Neuroscience</i> , 2019, 13, 1378.	1.4	24
29	Modulation of alpha oscillations in insular cortex reflects the threat of painful stimuli. <i>NeuroImage</i> , 2009, 46, 1082-1090.	2.1	21
30	Corticomuscular Coherence: a Novel Tool to Assess the Pyramidal Tract Dysfunction in Spinocerebellar Ataxia Type 2. <i>Cerebellum</i> , 2017, 16, 602-606.	1.4	21
31	Brain State-dependent Brain Stimulation with Real-time Electroencephalography-Triggered Transcranial Magnetic Stimulation. <i>Journal of Visualized Experiments</i> , 2019, , .	0.2	17
32	Prefrontal Theta-Phase Synchronized Brain Stimulation With Real-Time EEG-Triggered TMS. <i>Frontiers in Human Neuroscience</i> , 2021, 15, 691821.	1.0	16
33	Nil effects of 1/4-rhythm phase-dependent burst-rTMS on cortical excitability in humans: A resting-state EEG and TMS-EEG study. <i>PLoS ONE</i> , 2018, 13, e0208747.	1.1	15
34	Bridging the gap: TMS-EEG from lab to clinic. <i>Journal of Neuroscience Methods</i> , 2022, 369, 109482.	1.3	15
35	Source Activity Correlation Effects on LCMV Beamformers in a Realistic Measurement Environment. <i>Computational and Mathematical Methods in Medicine</i> , 2012, 2012, 1-8.	0.7	14
36	Different oscillatory entrainment of cortical networks during motor imagery and neurofeedback in right and left handers. <i>NeuroImage</i> , 2019, 195, 190-202.	2.1	13

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37	Prefrontal theta phase-dependent rTMS-induced plasticity of cortical and behavioral responses in human cortex. <i>Brain Stimulation</i> , 2022, 15, 391-402.	0.7	13
38	Human brain activation elicited by the localization of sounds delivering at attended or unattended positions: an fMRI/MEG study. <i>Cognitive Processing</i> , 2006, 7, 116-117.	0.7	12
39	Bihemispheric sensorimotor oscillatory network states determine cortical responses to transcranial magnetic stimulation. <i>Brain Stimulation</i> , 2022, 15, 167-178.	0.7	10
40	Predicting motor behavior: an efficient EEG signal processing pipeline to detect brain states with potential therapeutic relevance for VR-based neurorehabilitation. <i>Virtual Reality</i> , 2023, 27, 347-369.	4.1	9
41	A New Framework to Interpret Individual Inter-Hemispheric Compensatory Communication after Stroke. <i>Journal of Personalized Medicine</i> , 2022, 12, 59.	1.1	9
42	Motor cortex excitability in seizure-free STX1B mutation carriers with a history of epilepsy and febrile seizures. <i>Clinical Neurophysiology</i> , 2017, 128, 2503-2509.	0.7	6
43	Artifacts in EEG-Based BCI Therapies: Friend or Foe?. <i>Sensors</i> , 2022, 22, 96.	2.1	6
44	Reduced Performance During a Sentence Repetition Task by Continuous Theta-Burst Magnetic Stimulation of the Pre-supplementary Motor Area. <i>Frontiers in Neuroscience</i> , 2018, 12, 361.	1.4	5
45	Functional Connectivity States of Alpha Rhythm Sources in the Human Cortex at Rest: Implications for Real-Time Brain State Dependent EEG-TMS. <i>Brain Sciences</i> , 2022, 12, 348.	1.1	4
46	Intraoperative localization of spatially and spectrally distinct resting-state networks in Parkinson's disease. <i>Journal of Neurosurgery</i> , 2020, 132, 1234-1242.	0.9	3
47	Characterization of GABAA-receptor mediated neurotransmission in the human cortex by paired-pulse TMS-EEG. <i>Brain Stimulation</i> , 2015, 8, 387.	0.7	0
48	99. Alpha-Synchronized Stimulation of the Left Dorsolateral Prefrontal Cortex in Depression Using Real-Time EEG-Triggered TMS. <i>Biological Psychiatry</i> , 2019, 85, S41.	0.7	0
49	Alpha-Synchronized Stimulation of the Dorsolateral Prefrontal Cortex (DLPFC) in Major Depression: A Proof-of-Principle EEG-TMS Study. <i>Biosystems and Biorobotics</i> , 2019, , 1080-1083.	0.2	0
50	Brain-State Dependent Stimulation in Human Motor Cortex for Plasticity Induction Using EEG-TMS. <i>Biosystems and Biorobotics</i> , 2019, , 1057-1060.	0.2	0
51	Phase-coupled EEG sources predict motor cortex excitability probed with TMS. <i>Brain Stimulation</i> , 2021, 14, 1597.	0.7	0
52	Bihemispheric motor oscillatory network states determine cortical responses to transcranial magnetic stimulation. <i>Brain Stimulation</i> , 2021, 14, 1675.	0.7	0
53	Individualized decoding of cortical excitability states using single-trial TMS responses analyzed by machine learning. <i>Brain Stimulation</i> , 2021, 14, 1751.	0.7	0