

# Silvia Casarotto

## List of Publications by Year in descending order

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Version: 2024-02-01

57  
papers

4,797  
citations

186265

28  
h-index

197818

49  
g-index

66  
all docs

66  
docs citations

66  
times ranked

3526  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Theoretically Based Index of Consciousness Independent of Sensory Processing and Behavior. <i>Science Translational Medicine</i> , 2013, 5, 198ra105.	12.4	839
2	Recovery of cortical effective connectivity and recovery of consciousness in vegetative patients. <i>Brain</i> , 2012, 135, 1308-1320.	7.6	400
3	Stratification of unresponsive patients by an independently validated index of brain complexity. <i>Annals of Neurology</i> , 2016, 80, 718-729.	5.3	309
4	Consciousness and Complexity during Unresponsiveness Induced by Propofol, Xenon, and Ketamine. <i>Current Biology</i> , 2015, 25, 3099-3105.	3.9	308
5	Clinical utility and prospective of TMS-EEG. <i>Clinical Neurophysiology</i> , 2019, 130, 802-844.	1.5	276
6	Human Cortical Excitability Increases with Time Awake. <i>Cerebral Cortex</i> , 2013, 23, 1-7.	2.9	229
7	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
8	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
9	Cortical reactivity and effective connectivity during REM sleep in humans. <i>Cognitive Neuroscience</i> , 2010, 1, 176-183.	1.4	167
10	Bistability breaks-off deterministic responses to intracortical stimulation during non-REM sleep. <i>NeuroImage</i> , 2015, 112, 105-113.	4.2	157
11	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
12	General indices to characterize the electrical response of the cerebral cortex to TMS. <i>NeuroImage</i> , 2010, 49, 1459-1468.	4.2	130
13	Quantifying Cortical EEG Responses to TMS in (Un)consciousness. <i>Clinical EEG and Neuroscience</i> , 2014, 45, 40-49.	1.7	116
14	Sleep-like cortical OFF-periods disrupt causality and complexity in the brain of unresponsive wakefulness syndrome patients. <i>Nature Communications</i> , 2018, 9, 4427.	12.8	109
15	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
16	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
17	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
18	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

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19	Principal component analysis for reduction of ocular artefacts in event-related potentials of normal and dyslexic children. <i>Clinical Neurophysiology</i> , 2004, 115, 609-619.	1.5	70
20	Local sleep-like cortical reactivity in the awake brain after focal injury. <i>Brain</i> , 2020, 143, 3672-3684.	7.6	69
21	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
22	Transcranial magnetic stimulation-evoked EEG/cortical potentials in physiological and pathological aging. <i>NeuroReport</i> , 2011, 22, 592-597.	1.2	62
23	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
24	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
25	TAAC - TMS Adaptable Auditory Control: A universal tool to mask TMS clicks. <i>Journal of Neuroscience Methods</i> , 2022, 370, 109491.	2.5	46
26	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
27	New Insights into Alzheimer's Disease Progression: A Combined TMS and Structural MRI Study. <i>PLoS ONE</i> , 2011, 6, e26113.	2.5	44
28	Consciousness and complexity: a consilience of evidence. <i>Neuroscience of Consciousness</i> , 0, , .	2.6	41
29	Global structural integrity and effective connectivity in patients with disorders of consciousness. <i>Brain Stimulation</i> , 2018, 11, 358-365.	1.6	39
30	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
31	Quantifying arousal and awareness in altered states of consciousness using interpretable deep learning. <i>Nature Communications</i> , 2022, 13, 1064.	12.8	29
32	Detecting the Potential for Consciousness in Unresponsive Patients Using the Perturbational Complexity Index. <i>Brain Sciences</i> , 2020, 10, 917.	2.3	27
33	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
34	Abnormal brain oscillations persist after recovery from bipolar depression. <i>European Psychiatry</i> , 2017, 41, 10-15.	0.2	22
35	Subcortical atrophy correlates with the perturbational complexity index in patients with disorders of consciousness. <i>Brain Stimulation</i> , 2020, 13, 1426-1435.	1.6	20
36	Diagnostic Biomarkers of Epilepsy. <i>Current Pharmaceutical Biotechnology</i> , 2018, 19, 440-450.	1.6	20

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37	Cardiac autonomic responses to nociceptive stimuli in patients with chronic disorders of consciousness. <i>Clinical Neurophysiology</i> , 2018, 129, 1083-1089.	1.5	18
38	Combining Transcranial Magnetic Stimulation with Electroencephalography to Study Human Cortical Excitability and Effective Connectivity. <i>NeuroMethods</i> , 2011, , 435-457.	0.3	15
39	Meditation-induced modulation of brain response to transcranial magnetic stimulation. <i>Brain Stimulation</i> , 2018, 11, 1397-1400.	1.6	12
40	Dynamic time warping in the analysis of event-related potentials. <i>IEEE Engineering in Medicine and Biology Magazine</i> , 2005, 24, 68-77.	0.8	11
41	Neural correlates of "analytical-specific visual perception" and degree of task difficulty as investigated by the Mangina-Test: A functional magnetic resonance imaging (fMRI) study in young healthy adults. <i>International Journal of Psychophysiology</i> , 2009, 73, 150-156.	1.0	10
42	Automated identification of ERP peaks through Dynamic Time Warping: An application to developmental dyslexia. <i>Clinical Neurophysiology</i> , 2009, 120, 1819-1827.	1.5	7
43	Spatiotemporal dynamics of single-letter reading: a combined ERP-fMRI study. <i>Archives Italiennes De Biologie</i> , 2008, 146, 83-105.	0.4	7
44	Modulation of specific brain activity by the perceptual analysis of very subtle geometrical relationships of the Mangina-Test stimuli: A functional magnetic resonance imaging (fMRI) investigation in young healthy adults. <i>International Journal of Psychophysiology</i> , 2009, 73, 157-163.	1.0	6
45	The psychophysiology of reading. <i>International Journal of Psychophysiology</i> , 2014, 94, 111-119.	1.0	6
46	Reading aloud: A psychophysiological investigation in children. <i>Neuropsychologia</i> , 2013, 51, 425-436.	1.6	5
47	Exploring the Neurophysiological Correlates of Loss and Recovery of Consciousness: Perturbational Complexity. , 2016, , 93-104.		5
48	Dynamic time warping in the study of ERPs in dyslexic children. , 0, , .		3
49	Neural correlates of "analytical-specific visual perception" as investigated by the Mangina-Test: A functional magnetic resonance imaging study in young healthy adults. <i>International Journal of Psychophysiology</i> , 2008, 69, 146-147.	1.0	2
50	Covert brand recognition engages emotion-specific brain networks. <i>Archives Italiennes De Biologie</i> , 2012, 150, 259-73.	0.4	2
51	Role of transcranial magnetic stimulation (TMS) combined with electroencephalography (EEG) in disorders of consciousness (DOC). <i>Journal of the Neurological Sciences</i> , 2021, 429, 118507.	0.6	1
52	Cortical Excitability, Plasticity and Oscillations in Major Psychiatric Disorders: A Neuronavigated TMS-EEG Based Approach. , 2020, , 209-222.		1
53	A pilot study of the reading processes combining reading-related potentials (RRPs) and fMRI. , 2004, 2004, 1892-5.		0
54	Combination of event-related potentials and functional magnetic resonance imaging during single-letter reading. , 2006, 2006, 984-7.		0

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55	P.2.e.002 Depression, cortical excitability and sleep deprivation: a TMS/EEG study. European Neuropsychopharmacology, 2012, 22, S276-S277.	0.7	0
56	The Potential of nTMS/EEG: Measuring Consciousness. , 2017, , 257-265.		0
57	Measures of differentiation and integration: One step closer to consciousness. Behavioral and Brain Sciences, 2022, 45, e54.	0.7	0