

# Simone Sarasso

## List of Publications by Year in descending order

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Version: 2024-02-01

69  
papers

5,624  
citations

117619

34  
h-index

114455

63  
g-index

87  
all docs

87  
docs citations

87  
times ranked

4913  
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	Breakdown in cortical effective connectivity during midazolam-induced loss of consciousness. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 2681-2686.	7.1	464
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	Thalamic Dysfunction in Schizophrenia Suggested by Whole-Night Deficits in Slow and Fast Spindles. <i>American Journal of Psychiatry</i> , 2010, 167, 1339-1348.	7.2	264
6	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
7	Local Experience-Dependent Changes in the Wake EEG after Prolonged Wakefulness. <i>Sleep</i> , 2013, 36, 59-72.	1.1	178
8	Concomitant BDNF and sleep slow wave changes indicate ketamine-induced plasticity in major depressive disorder. <i>International Journal of Neuropsychopharmacology</i> , 2013, 16, 301-311.	2.1	176
9	Bistability breaks-off deterministic responses to intracortical stimulation during non-REM sleep. <i>NeuroImage</i> , 2015, 112, 105-113.	4.2	157
10	Circadian regulation of human cortical excitability. <i>Nature Communications</i> , 2016, 7, 11828.	12.8	146
11	Reduced Natural Oscillatory Frequency of Frontal Thalamocortical Circuits in Schizophrenia. <i>Archives of General Psychiatry</i> , 2012, 69, 766-74.	12.3	130
12	Measures of Cortical Plasticity after Transcranial Paired Associative Stimulation Predict Changes in Electroencephalogram Slow-Wave Activity during Subsequent Sleep. <i>Journal of Neuroscience</i> , 2008, 28, 7911-7918.	3.6	125
13	Parietal Fast Sleep Spindle Density Decrease in Alzheimer's Disease and Amnesic Mild Cognitive Impairment. <i>Neural Plasticity</i> , 2016, 2016, 1-10.	2.2	117
14	Quantifying Cortical EEG Responses to TMS in (Un)consciousness. <i>Clinical EEG and Neuroscience</i> , 2014, 45, 40-49.	1.7	116
15	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
16	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
17	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
18	Sleep-related epileptic behaviors and non-REM-related parasomnias: Insights from stereo-EEG. <i>Sleep Medicine Reviews</i> , 2016, 25, 4-20.	8.5	103

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19	Global and local complexity of intracranial EEG decreases during NREM sleep. <i>Neuroscience of Consciousness</i> , 2017, 2017, niw022.	2.6	94
20	Hippocampal sleep spindles preceding neocortical sleep onset in humans. <i>NeuroImage</i> , 2014, 86, 425-432.	4.2	92
21	Local aspects of sleep. <i>Progress in Brain Research</i> , 2012, 199, 219-232.	1.4	87
22	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
23	Local sleep-like cortical reactivity in the awake brain after focal injury. <i>Brain</i> , 2020, 143, 3672-3684.	7.6	69
24	Baseline delta sleep ratio predicts acute ketamine mood response in major depressive disorder. <i>Journal of Affective Disorders</i> , 2013, 145, 115-119.	4.1	68
25	Reduced mediodorsal thalamic volume and prefrontal cortical spindle activity in schizophrenia. <i>NeuroImage</i> , 2014, 102, 540-547.	4.2	67
26	Cortical mechanisms of loss of consciousness: insight from TMS/EEG studies. <i>Archives Italiennes De Biologie</i> , 2012, 150, 44-55.	0.4	67
27	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
28	Plastic Changes Following Imitation-Based Speech and Language Therapy for Aphasia. <i>Neurorehabilitation and Neural Repair</i> , 2014, 28, 129-138.	2.9	59
29	Circadian dynamics in measures of cortical excitation and inhibition balance. <i>Scientific Reports</i> , 2016, 6, 33661.	3.3	58
30	The effects of morning training on night sleep: A behavioral and EEG study. <i>Brain Research Bulletin</i> , 2010, 82, 118-123.	3.0	52
31	Cognitive performance and cardiovascular markers of hyperarousal in primary insomnia. <i>International Journal of Psychophysiology</i> , 2011, 80, 79-86.	1.0	47
32	Probing Thalamic Integrity in Schizophrenia Using Concurrent Transcranial Magnetic Stimulation and Functional Magnetic Resonance Imaging. <i>Archives of General Psychiatry</i> , 2012, 69, 662-71.	12.3	47
33	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
34	TAAC - TMS Adaptable Auditory Control: A universal tool to mask TMS clicks. <i>Journal of Neuroscience Methods</i> , 2022, 370, 109491.	2.5	46
35	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
36	Sleep endophenotypes of schizophrenia: slow waves and sleep spindles in unaffected first-degree relatives. <i>NPJ Schizophrenia</i> , 2018, 4, 2.	3.6	41

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37	Consciousness and complexity: a consilience of evidence. <i>Neuroscience of Consciousness</i> , 0, , .	2.6	41
38	Simultaneous human intracerebral stimulation and HD-EEG, ground-truth for source localization methods. <i>Scientific Data</i> , 2020, 7, 127.	5.3	33
39	Sleepiness as a Local Phenomenon. <i>Frontiers in Neuroscience</i> , 2019, 13, 1086.	2.8	31
40	Focal lesions induce large-scale percolation of sleep-like intracerebral activity in awake humans. <i>NeuroImage</i> , 2021, 234, 117964.	4.2	30
41	Electrophysiological traces of visuomotor learning and their renormalization after sleep. <i>Clinical Neurophysiology</i> , 2011, 122, 2418-2425.	1.5	28
42	Repetitive thought is associated with both subjectively and objectively recorded polysomnographic indices of disrupted sleep in insomnia disorder. <i>Sleep Medicine</i> , 2018, 45, 55-61.	1.6	28
43	Fluid boundaries between wake and sleep: experimental evidence from stereo-EEG recordings. <i>Archives Italiennes De Biologie</i> , 2015, 152, 169-77.	0.4	28
44	Overnight changes in waking auditory evoked potential amplitude reflect altered sleep homeostasis in major depression. <i>Acta Psychiatrica Scandinavica</i> , 2012, 125, 468-477.	4.5	27
45	Non-fluent aphasia and neural reorganization after speech therapy: insights from human sleep electrophysiology and functional magnetic resonance imaging. <i>Archives Italiennes De Biologie</i> , 2010, 148, 271-8.	0.4	26
46	Sleep Spindle Deficit in Schizophrenia: Contextualization of Recent Findings. <i>Current Psychiatry Reports</i> , 2016, 18, 72.	4.5	25
47	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
48	Levodopa-induced dyskinesia in Parkinson disease: Sleep matters. <i>Annals of Neurology</i> , 2018, 84, 905-917.	5.3	20
49	A postsleep decline in auditory evoked potential amplitude reflects sleep homeostasis. <i>Clinical Neurophysiology</i> , 2011, 122, 1549-1555.	1.5	18
50	Human fronto-parietal response scattering subserves vigilance at night. <i>NeuroImage</i> , 2018, 175, 354-364.	4.2	18
51	Evidence of an association between sleep and levodopa-induced dyskinesia in an animal model of Parkinson's disease. <i>Neurobiology of Aging</i> , 2015, 36, 1577-1589.	3.1	13
52	Sleep, Preconditioning and Stroke. <i>Stroke</i> , 2017, 48, 3400-3407.	2.0	13
53	Sleep as a model to understand neuroplasticity and recovery after stroke: Observational, perturbational and interventional approaches. <i>Journal of Neuroscience Methods</i> , 2019, 313, 37-43.	2.5	13
54	Effects of sleep deprivation on auditory change detection: a N1-Mismatch Negativity study. <i>International Journal of Psychophysiology</i> , 2011, 81, 312-316.	1.0	12

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55	Measuring states of pathological (un)consciousness: research dimensions, clinical applications, and ethics. <i>Neuroscience of Consciousness</i> , 2017, 2017, nix010.	2.6	12
56	Slow wave oscillations in Schizophrenia First-Degree Relatives: A confirmatory analysis and feasibility study on slow wave traveling. <i>Schizophrenia Research</i> , 2020, 221, 37-43.	2.0	10
57	A comparative study between state-of-the-art <sc>MRI</sc> deidentification and <sc>AnonyMI</sc>, a new method combining re-identification risk reduction and geometrical preservation. <i>Human Brain Mapping</i> , 2021, 42, 5523-5534.	3.6	8
58	Simultaneous stereo-EEG and high-density scalp EEG recordings to study the effects of intracerebral stimulation parameters. <i>Brain Stimulation</i> , 2022, 15, 664-675.	1.6	7
59	Exploring the Neurophysiological Correlates of Loss and Recovery of Consciousness: Perturbational Complexity. , 2016, , 93-104.		5
60	The distinctive sleep pattern of the human calcarine cortex: a stereo-electroencephalographic study. <i>Sleep</i> , 2021, 44, .	1.1	5
61	Reduced readiness potential and post-movement beta synchronization reflect self-disorders in early course schizophrenia. <i>Scientific Reports</i> , 2021, 11, 15044.	3.3	5
62	Thalamic and neocortical differences in the relationship between the time course of delta and sigma power during NREM sleep in humans. <i>Journal of Sleep Research</i> , 2021, 30, e13166.	3.2	2
63	S6. SLEEP ENDOPHENOTYPES OF SCHIZOPHRENIA: A HIGH-DENSITY EEG STUDY IN DRUG-NAÏVE, FIRST EPISODE PSYCHOSIS PATIENTS. <i>Schizophrenia Bulletin</i> , 2020, 46, S32-S32.	4.3	1
64	M6. REDUCED READINESS POTENTIAL AS A NEUROPHYSIOLOGICAL CORRELATE OF SELF-DISTURBANCES IN EARLY COURSE PSYCHOSIS: PRELIMINARY FINDINGS FROM A HIGH-DENSITY EEG STUDY. <i>Schizophrenia Bulletin</i> , 2020, 46, S135-S135.	4.3	1
65	Cortical Excitability, Plasticity and Oscillations in Major Psychiatric Disorders: A Neuronavigated TMS-EEG Based Approach. , 2020, , 209-222.		1
66	Synaptic homeostasis in Parkinson's disease: An high-density EEG study in different stage of the disease. <i>Parkinsonism and Related Disorders</i> , 2016, 22, e163.	2.2	0
67	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
68	The Potential of nTMS/EEG: Measuring Consciousness. , 2017, , 257-265.		0
69	Measures of differentiation and integration: One step closer to consciousness. <i>Behavioral and Brain Sciences</i> , 2022, 45, e54.	0.7	0