Simone Sarasso

List of Publications by Year
in descending order

69 papers	5,624 citations	117625 34 h-index	114465 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. Science Translational Medicine, 2013, 5, 198ra105.	12.4	839
2	Breakdown in cortical effective connectivity during midazolam-induced loss of consciousness. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 2681-2686.	7.1	464
3	Stratification of unresponsive patients by an independently validated index of brain complexity. Annals of Neurology, 2016, 80, 718-729.	5.3	309
4	Consciousness and Complexity during Unresponsiveness Induced by Propofol, Xenon, and Ketamine. Current Biology, 2015, 25, 3099-3105.	3.9	308
5	Thalamic Dysfunction in Schizophrenia Suggested by Whole-Night Deficits in Slow and Fast Spindles. American Journal of Psychiatry, 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. NeuroImage, 2019, 189, 631-644.	4.2	185
7	Local Experience-Dependent Changes in the Wake EEG after Prolonged Wakefulness. Sleep, 2013, 36, 59-72.	1.1	178
8	Concomitant BDNF and sleep slow wave changes indicate ketamine-induced plasticity in major depressive disorder. International Journal of Neuropsychopharmacology, 2013, 16, 301-311.	2.1	176
9	Bistability breaks-off deterministic responses to intracortical stimulation during non-REM sleep. NeuroImage, 2015, 112, 105-113.	4.2	157
10	Circadian regulation of human cortical excitability. Nature Communications, 2016, 7, 11828.	12.8	146
11	Reduced Natural Oscillatory Frequency of Frontal Thalamocortical Circuits in Schizophrenia. Archives of General Psychiatry, 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. Journal of Neuroscience, 2008, 28, 7911-7918.	3.6	125
13	Parietal Fast Sleep Spindle Density Decrease in Alzheimerâ€™s Disease and Amnesic Mild Cognitive Impairment. Neural Plasticity, 2016, 2016, 1-10.	2.2	117
14	Quantifying Cortical EEG Responses to TMS in (Un)consciousness. Clinical EEG and Neuroscience, 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. Nature Communications, 2018, 9, 4427.	12.8	109
16	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
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. PLoS ONE, 2017, 12, e0184910.	2.5	104
18	Sleep-related epileptic behaviors and non-REM-related parasomnias: Insights from stereo-EEG. Sleep Medicine Reviews, 2016, 25, 4-20.	8.5	103

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19	Global and local complexity of intracranial EEG decreases during NREM sleep. Neuroscience of Consciousness, 2017, 2017, niw022.	2.6	94
20	Hippocampal sleep spindles preceding neocortical sleep onset in humans. NeuroImage, 2014, 86, 425-432.	4.2	92
21	Local aspects of sleep. Progress in Brain Research, 2012, 199, 219-232.	1.4	87
22	On the Cerebral Origin of EEG Responses to TMS: Insights From Severe Cortical Lesions. Brain Stimulation, 2015, 8, 142-149.	1.6	87
23	Local sleep-like cortical reactivity in the awake brain after focal injury. Brain, 2020, 143, 3672-3684.	7.6	69
24	Baseline delta sleep ratio predicts acute ketamine mood response in major depressive disorder. Journal of Affective Disorders, 2013, 145, 115-119.	4.1	68
25	Reduced mediodorsal thalamic volume and prefrontal cortical spindle activity in schizophrenia. NeuroImage, 2014, 102, 540-547.	4.2	67
26	Cortical mechanisms of loss of consciousness: insight from TMS/EEG studies. Archives Italiennes De Biologie, 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. Brain Stimulation, 2019, 12, 1280-1289.	1.6	64
28	Plastic Changes Following Imitation-Based Speech and Language Therapy for Aphasia. Neurorehabilitation and Neural Repair, 2014, 28, 129-138.	2.9	59
29	Circadian dynamics in measures of cortical excitation and inhibition balance. Scientific Reports, 2016, 6, 33661.	3.3	58
30	The effects of morning training on night sleep: A behavioral and EEG study. Brain Research Bulletin, 2010, 82, 118-123.	3.0	52
31	Cognitive performance and cardiovascular markers of hyperarousal in primary insomnia. International Journal of Psychophysiology, 2011, 80, 79-86.	1.0	47
32	Probing Thalamic Integrity in Schizophrenia Using Concurrent Transcranial Magnetic Stimulation and Functional Magnetic Resonance Imaging. Archives of General Psychiatry, 2012, 69, 662-71.	12.3	47
33	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
34	TAAC - TMS Adaptable Auditory Control: A universal tool to mask TMS clicks. Journal of Neuroscience Methods, 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. Journal of Neuroscience Methods, 2022, 370, 109486.	2.5	46
36	Sleep endophenotypes of schizophrenia: slow waves and sleep spindles in unaffected first-degree relatives. NPJ Schizophrenia, 2018, 4, 2.	3.6	41

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37	Consciousness and complexity: a consilience of evidence. Neuroscience of Consciousness, 0, , .	2.6	41
38	Simultaneous human intracerebral stimulation and HD-EEG, ground-truth for source localization methods. Scientific Data, 2020, 7, 127.	5.3	33
39	Sleepiness as a Local Phenomenon. Frontiers in Neuroscience, 2019, 13, 1086.	2.8	31
40	Focal lesions induce large-scale percolation of sleep-like intracerebral activity in awake humans. NeuroImage, 2021, 234, 117964.	4.2	30
41	Electrophysiological traces of visuomotor learning and their renormalization after sleep. Clinical Neurophysiology, 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. Sleep Medicine, 2018, 45, 55-61.	1.6	28
43	Fluid boundaries between wake and sleep: experimental evidence from stereo-EEG recordings. Archives Italiennes De Biologie, 2015, 152, 169-77.	0.4	28
44	Overnight changes in waking auditory evoked potential amplitude reflect altered sleep homeostasis in major depression. Acta Psychiatrica Scandinavica, 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. Archives Italiennes De Biologie, 2010, 148, 271-8.	0.4	26
46	Sleep Spindle Deficit in Schizophrenia: Contextualization of Recent Findings. Current Psychiatry Reports, 2016, 18, 72.	4.5	25
47	EEG spectral exponent as a synthetic index for the longitudinal assessment of stroke recovery. Clinical Neurophysiology, 2022, 137, 92-101.	1.5	24
48	Levodopaâ€induced dyskinesia in Parkinson disease: Sleep matters. Annals of Neurology, 2018, 84, 905-917.	5.3	20
49	A postsleep decline in auditory evoked potential amplitude reflects sleep homeostasis. Clinical Neurophysiology, 2011, 122, 1549-1555.	1.5	18
50	Human fronto-parietal response scattering subserves vigilance at night. NeuroImage, 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. Neurobiology of Aging, 2015, 36, 1577-1589.	3.1	13
52	Sleep, Preconditioning and Stroke. Stroke, 2017, 48, 3400-3407.	2.0	13
53	Sleep as a model to understand neuroplasticity and recovery after stroke: Observational, perturbational and interventional approaches. Journal of Neuroscience Methods, 2019, 313, 37-43.	2.5	13
54	Effects of sleep deprivation on auditory change detection: a N1-Mismatch Negativity study. International Journal of Psychophysiology, 2011, 81, 312-316.	1.0	12

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55	Measuring states of pathological (un)consciousness: research dimensions, clinical applications, and ethicsâ€. Neuroscience of Consciousness, 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. Schizophrenia Research, 2020, 221, 37-43.	2.0	10
57	A comparative study between stateâ€ofâ€theâ€art <scp>MRI</scp> deidentification and <scp>AnonyMI</scp>, a new method combining reâ€identification risk reduction and geometrical preservation. Human Brain Mapping, 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. Brain Stimulation, 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. Sleep, 2021, 44, .	1.1	5
61	Reduced readiness potential and post-movement beta synchronization reflect self-disorders in early course schizophrenia. Scientific Reports, 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. Journal of Sleep Research, 2021, 30, e13166.	3.2	2
63	S6. SLEEP ENDOPHENOTYPES OF SCHIZOPHRENIA: A HIGH-DENSITY EEG STUDY IN DRUG-NAÃ¯VE, FIRST EPISODE PSYCHOSIS PATIENTS. Schizophrenia Bulletin, 2020, 46, S32-S32.	4.3	1
64	M6. REDUCED READINESS POTENTIAL AS A NEUROPHYSIOLOGICAL CORRELATE OF SELF-DISTURBANCES IN EARLYâ€“COURSE PSYCHOSIS: PRELIMINARY FINDINGS FROM A HIGHâ€“DENSITY EEG STUDY. Schizophrenia Bulletin, 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. Parkinsonism and Related Disorders, 2016, 22, e163.	2.2	0
67	Sleep-like bistability, loss of causality and complexity in the cerebral cortex of unresponsive wakefulness syndrome patients. Brain Stimulation, 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. Behavioral and Brain Sciences, 2022, 45, e54.	0.7	0