Andrea Soddu

List of Publications by Citations

96 papers	4,756 citations	34 h-index	68 g-index
105 ext. papers	5,792 ext. citations	4.3 avg, IF	5.08 L-index

#	Paper	IF	Citations
96	Default network connectivity reflects the level of consciousness in non-communicative brain-damaged patients. *Brain*, **2010**, 133, 161-71	11.2	574
95	Diagnostic precision of PET imaging and functional MRI in disorders of consciousness: a clinical validation study. *Lancet, The*, **2014**, 384, 514-22	40	299
94	Two distinct neuronal networks mediate the awareness of environment and of self. *Journal of Cognitive Neuroscience*, **2011**, 23, 570-8	3.1	281
93	Intrinsic functional connectivity differentiates minimally conscious from unresponsive patients. *Brain*, **2015**, 138, 2619-31	11.2	183
92	A role for the default mode network in the bases of disorders of consciousness. *Annals of Neurology*, **2012**, 72, 335-43	9.4	171
91	Resting state networks and consciousness: alterations of multiple resting state network connectivity in physiological, pharmacological, and pathological consciousness States. *Frontiers in Psychology*, **2012**, 3, 295	3.4	171
90	Probing command following in patients with disorders of consciousness using a brain-computer interface. *Clinical Neurophysiology*, **2013**, 124, 101-6	4.3	154
89	A new evaluation of the t-pH decay width in the standard model. *Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics*, **1998**, 435, 401-406	4.2	153
88	Auditory resting-state network connectivity in tinnitus: a functional MRI study. *PLoS ONE*, **2012**, 7, e36222	3.7	145
87	Connectivity graph analysis of the auditory resting state network in tinnitus. *Brain Research*, **2012**, 1485, 10-21	3.7	142
86	Multiple fMRI system-level baseline connectivity is disrupted in patients with consciousness alterations. *Cortex*, **2014**, 52, 35-46	3.8	134
85	Neural correlates of consciousness in patients who have emerged from a minimally conscious state: a cross-sectional multimodal imaging study. *Lancet Neurology, The*, **2016**, 15, 830-842	24.1	127
84	Consciousness supporting networks. *Current Opinion in Neurobiology*, **2013**, 23, 239-44	7.6	120
83	Attitudes towards end-of-life issues in disorders of consciousness: a European survey. *Journal of Neurology*, **2011**, 258, 1058-65	5.5	116
82	Resting-state Network-specific Breakdown of Functional Connectivity during Ketamine Alteration of Consciousness in Volunteers. *Anesthesiology*, **2016**, 125, 873-888	4.3	111
81	Identifying the default-mode component in spatial IC analyses of patients with disorders of consciousness. *Human Brain Mapping*, **2012**, 33, 778-96	5.9	103
80	Resting-state EEG study of comatose patients: a connectivity and frequency analysis to find differences between vegetative and minimally conscious states. *Functional Neurology*, **2012**, 27, 41-7	2.2	102

79	Biased binomial assessment of cross-validated estimation of classification accuracies illustrated in diagnosis predictions. *NeuroImage: Clinical*, **2014**, 4, 687-94	5.3	92
78	Altered network properties of the fronto-parietal network and the thalamus in impaired consciousness. *NeuroImage: Clinical*, **2014**, 4, 240-8	5.3	82
77	Thalamus, brainstem and salience network connectivity changes during propofol-induced sedation and unconsciousness. *Brain Connectivity*, **2013**, 3, 273-85	2.7	80
76	Difference in B+ and B0 direct CP asymmetry as an effect of a fourth generation. *Physical Review Letters*, **2005**, 95, 141601	7.4	79
75	An independent SSVEP-based brain-computer interface in locked-in syndrome. *Journal of Neural Engineering*, **2014**, 11, 035002	5	77
74	Hypnotic modulation of resting state fMRI default mode and extrinsic network connectivity. *Progress in Brain Research*, **2011**, 193, 309-22	2.9	74
73	Brain connectivity in disorders of consciousness. *Brain Connectivity*, **2012**, 2, 1-10	2.7	69
72	Large time-dependent CP violation in the Bs0 system and finite D0D0 mass difference in a four generation standard model. *Physical Review D*, **2007**, 76,	4.9	69
71	Cerebral functional connectivity periodically (de)synchronizes with anatomical constraints. *Brain Structure and Function*, **2016**, 221, 2985-97	4	59
70	Brain connectivity in pathological and pharmacological coma. *Frontiers in Systems Neuroscience*, **2010**, 4, 160	3.5	57
69	Resting state activity in patients with disorders of consciousness. *Functional Neurology*, **2011**, 26, 37-43	2.2	53
68	Disorders of consciousness: what's in a name?. *NeuroRehabilitation*, **2011**, 28, 3-14	2	51
67	Neuroimaging after coma. *Neuroradiology*, **2010**, 52, 15-24	3.2	45
66	Reduction in inter-hemispheric connectivity in disorders of consciousness. *PLoS ONE*, **2012**, 7, e37238	3.7	43
65	Enhanced KL-β from direct CP violation in B-κ with four generations. *Physical Review D*, **2005**, 72,	4.9	41
64	Reaching across the abyss: recent advances in functional magnetic resonance imaging and their potential relevance to disorders of consciousness. *Progress in Brain Research*, **2009**, 177, 261-74	2.9	36
63	Pain Perception in Disorders of Consciousness: Neuroscience, Clinical Care, and Ethics in Dialogue. *Neuroethics*, **2013**, 6, 37-50	1.2	35
62	Propofol-Induced Frontal Cortex Disconnection: A Study of Resting-State Networks, Total Brain Connectivity, and Mean BOLD Signal Oscillation Frequencies. *Brain Connectivity*, **2016**, 6, 225-37	2.7	34

61	Multimodal neuroimaging in patients with disorders of consciousness showing "functional hemispherectomy". *Progress in Brain Research*, **2011**, 193, 323-33	2.9	34
60	Measuring consciousness in coma and related states. *World Journal of Radiology*, **2014**, 6, 589-97	2.9	30
59	Lies, damned lies and diagnoses: estimating the clinical utility of assessments of covert awareness in the vegetative state. *Brain Injury*, **2014**, 28, 1197-201	2.1	29
58	Correlation between resting state fMRI total neuronal activity and PET metabolism in healthy controls and patients with disorders of consciousness. *Brain and Behavior*, **2016**, 6, e00424	3.4	26
57	Structural brain injury in patients with disorders of consciousness: A voxel-based morphometry study. *Brain Injury*, **2016**, 30, 343-52	2.1	25
56	Sedation of Patients With Disorders of Consciousness During Neuroimaging: Effects on Resting State Functional Brain Connectivity. *Anesthesia and Analgesia*, **2017**, 124, 588-598	3.9	24
55	Multifaceted brain networks reconfiguration in disorders of consciousness uncovered by co-activation patterns. *Human Brain Mapping*, **2018**, 39, 89-103	5.9	23
54	Changes in effective connectivity by propofol sedation. *PLoS ONE*, **2013**, 8, e71370	3.7	23
53	Four generationCPviolation inB-phiK0, □K0, □K0and hadronic uncertainties. *Journal of High Energy Physics*, **2006**, 2006, 012-012	5.4	22
52	A Principal Component Analysis of the Diffuse Interstellar Bands. *Astrophysical Journal*, **2017**, 836, 162	4.7	21
51	Functional Connectivity Substrates for tDCS Response in Minimally Conscious State Patients. *Frontiers in Cellular Neuroscience*, **2016**, 10, 257	6.1	21
50	Prevalence of increases in functional connectivity in visual, somatosensory and language areas in congenital blindness. *Frontiers in Neuroanatomy*, **2015**, 9, 86	3.6	20
49	Baryon number violation involving higher generations. *Physical Review D*, **2005**, 72,	4.9	20
48	Diffusion tensor imaging and white matter abnormalities in patients with disorders of consciousness. *Frontiers in Human Neuroscience*, **2014**, 8, 1028	3.3	19
47	Highlighting the structure-function relationship of the brain with the Ising model and graph theory. *BioMed Research International*, **2014**, 2014, 237898	3	18
46	Enhancing contrast agents and radiotracers performance through hyaluronic acid-coating in neuroradiology and nuclear medicine. *Hellenic Journal of Nuclear Medicine*, **2017**, 20, 166-168	0.6	17
45	Disorders of consciousness: Moving from passive to resting state and active paradigms. *Cognitive Neuroscience*, **2010**, 1, 193-203	1.7	15
44	A method for independent component graph analysis of resting-state fMRI. *Brain and Behavior*, **2017**, 7, e00626	3.4	13

43	Spontaneous low frequency BOLD signal variations from resting-state fMRI are decreased in Alzheimer disease. *PLoS ONE*, **2017**, 12, e0178529	3.7	13
42	Multimodal Neuroimaging Approach to Variability of Functional Connectivity in Disorders of Consciousness: A PET/MRI Pilot Study. *Frontiers in Neurology*, **2018**, 9, 861	4.1	12
41	Tinnitus distress: a paradoxical attention to the sound?. *Journal of Neurology*, **2019**, 266, 2197-2207	5.5	10
40	Toward an Attention-Based Diagnostic Tool for Patients With Locked-in Syndrome. *Clinical EEG and Neuroscience*, **2018**, 49, 122-135	2.3	10
39	Neural plasticity lessons from disorders of consciousness. *Frontiers in Psychology*, **2010**, 1, 245	3.4	10
38	Technology-based assessment in patients with disorders of consciousness. *Annali Dell'Istituto Superiore Di Sanita*, **2014**, 50, 209-20	1.6	9
37	Organization of the commissural fiber system in congenital and late-onset blindness. *NeuroImage: Clinical*, **2020**, 25, 102133	5.3	9
36	Role of Dimensionality in Predicting the Spontaneous Behavior of the Brain Using the Classical Ising Model and the Ising Model Implemented on a Structural Connectome. *Brain Connectivity*, **2018**, 8, 444-455	2.7	8
35	The Emergence of Integrated Information, Complexity, and 'Consciousness' at Criticality. *Entropy*, **2020**, 22,	2.8	7
34	Phenomenology of a quark mass matrix from six dimensions and its implication for the strong CP problem. *Nuclear Physics B*, **2004**, 692, 83-109	2.8	7
33	Pain Perception in Unresponsive Wakefulness Syndrome May Challenge the Interruption of Artificial Nutrition and Hydration: Neuroethics in Action. *Frontiers in Neurology*, **2016**, 7, 202	4.1	7
32	The emergence of integrated information, complexity, and consciousness at criticality		6
31	Reconfiguration of large-scale functional connectivity in patients with disorders of consciousness. *Brain and Behavior*, **2020**, 10, e1476	3.4	6
30	Consciousness and the Dimensionality of DOC Patients via the Generalized Ising Model. *Journal of Clinical Medicine*, **2020**, 9,	5.1	5
29	A method for functional network connectivity using distance correlation. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2014**, 2014, 2793-6	0.9	5
28	Functional Neuroimaging Approaches to the Changing Borders of Consciousness. *Journal of Psychophysiology*, **2010**, 24, 68-75	1	5
27	Modeling an auditory stimulated brain under altered states of consciousness using the generalized Ising model. *NeuroImage*, **2020**, 223, 117367	7.9	5
26	Neuroimaging of Narcolepsy and Primary Hypersomnias. *Neuroscientist*, **2020**, 26, 310-327	7.6	4

25	Functional Imaging and Impaired Consciousness **2012**, 25-34		4
24	B-p/R* in a supersymmetric right-handed flavor mixing scenario. *Physical Review D*, **2005**, 71,	4.9	4
23	Democratic mass matrices from five dimensions. *Physical Review D*, **2004**, 69,	4.9	4
22	Post-anoxic vegetative state: imaging and prognostic perspectives. *Functional Neurology*, **2011**, 26, 45-50	2.2	4
21	Dynamic functional network connectivity using distance correlation **2015**,		3
20	The accidental degeneracy of the hydrogen atom is no accident. *Canadian Journal of Physics*, **2015**, 93, 312-317	1.1	3
19	Time-Delay Latency of Resting-State Blood Oxygen Level-Dependent Signal Related to the Level of Consciousness in Patients with Severe Consciousness Impairment. *Brain Connectivity*, **2020**, 10, 83-94	2.7	3
18	Characterization of near death experiences using text mining analyses: A preliminary study. *PLoS ONE*, **2020**, 15, e0227402	3.7	3
17	Thalamic volume as a biomarker for disorders of consciousness **2015**,		3
16	eV seesaw with four generations. *Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics*, **2006**, 638, 229-233	4.2	3
15	Rare K decays in a model of quark and lepton masses. *Physical Review D*, **2002**, 65,	4.9	3
14	DTI BASED STRUCTURAL DAMAGE CHARACTERIZATION FOR DISORDERS OF CONSCIOUSNESS. *Proceedings International Conference on Image Processing*, **2012**, 2012, 1257-1260	1.6	2
13	Complete CKM quark mixing via dimensional deconstruction. *Nuclear Physics B*, **2005**, 712, 325-346	2.8	2
12	Diagnostic Developments in Differentiating Unresponsive Wakefulness Syndrome and the Minimally Conscious State.. *Frontiers in Neurology*, **2021**, 12, 778951	4.1	2
11	Principal-component analysis of particle motion. *Physical Review E*, **2015**, 91, 042308	2.4	1
10	Training Skills in Minimally Invasive, Robotic and Open Surgery: Brain Activation as an Opportunity for Learning. *European Surgical Research*, **2020**, 61, 34-50	1.1	1
9	What impact can hospitalization environment produce on the ANS functioning in patients with Unresponsive Wakefulness Syndrome? - 24-hour monitoring. *Brain Injury*, **2019**, 33, 1347-1353	2.1	1
8	Functional resting state networks characterization through global network measurements for patients with disorders of consciousness **2015**,		1

List of Publications

7	Spectroscopy and Diffusion Tensor Imaging in Disorders of Consciousness **2012**, 45-54		1
6	A comparison of diffusion tractography techniques in simulating the generalized Ising model to predict the intrinsic activity of the brain. *Brain Structure and Function*, **2021**, 226, 817-832	4	1
5	Sleep, Coma, Vegetative and Minimally Conscious States **2017**, 901-913		0
4	Multivariate Functional Network Connectivity for Disorders of Consciousness. *Lecture Notes in Computer Science*, **2017**, 434-442	0.9	
3	B+ and B0 Direct CP Asymmetries difference in a sequential Forth Generation scenario. *Journal of Physics: Conference Series*, **2006**, 53, 287-298	0.3	
2	Exploring electroencephalography with a model inspired by quantum mechanics. *Scientific Reports*, **2021**, 11, 19771	4.9	
1	Hybrid Imaging in Vegetative State **2016**, 247-249		