Melanie Boly

List of Publications by Year in descending order

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Version: 2024-02-01

14655 14759 21,657 132 66 127 citations h-index g-index papers 146 146 146 10945 docs citations times ranked citing authors all docs

#	Article	IF	Citations
1	Episodic thought distinguishes spontaneous cognition in waking from REM and NREM sleep. Consciousness and Cognition, 2022, 97, 103247.	1.5	5
2	IIT, half masked and half disfigured. Behavioral and Brain Sciences, 2022, 45, e60.	0.7	3
3	Quantifying arousal and awareness in altered states of consciousness using interpretable deep learning. Nature Communications, 2022, 13, 1064.	12.8	29
4	Engineering nonlinear epileptic biomarkers using deep learning and Benford's law. Scientific Reports, 2022, 12, 5397.	3.3	3
5	Common Data Elements for COVID-19 Neuroimaging: A GCS-NeuroCOVID Proposal. Neurocritical Care, 2021, 34, 365-370.	2.4	9
6	A high-density electroencephalography study reveals abnormal sleep homeostasis in patients with rapid eye movement sleep behavior disorder. Scientific Reports, 2021, 11, 4758.	3.3	20
7	Regional and global resting-state functional MR connectivity in temporal lobe epilepsy: Results from the Epilepsy Connectome Project. Epilepsy and Behavior, 2021, 117, 107841.	1.7	19
8	Mechanisms Underlying Disorders of Consciousness: Bridging Gaps to Move Toward an Integrated Translational Science. Neurocritical Care, 2021, 35, 37-54.	2.4	38
9	Consciousness and the fallacy of misplaced objectivity. Neuroscience of Consciousness, 2021, 2021, niab032.	2.6	22
10	Local Sleep Slow-Wave Activity Colocalizes With the Ictal Symptomatogenic Zone in a Patient With Reflex Epilepsy: A High-Density EEG Study. Frontiers in Systems Neuroscience, 2020, 14, 549309.	2.5	1
11	Graph Theoretical Analysis of Cortical Networks based on Conscious Experience., 2019, 2019, 3373-3376.		2
12	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
13	Connectivity differences between consciousness and unconsciousness in non-rapid eye movement sleep: a TMS–EEG study. Scientific Reports, 2019, 9, 5175.	3.3	64
14	Causal Connectivity According to Conscious Experience in Non-Rapid Eye Movement Sleep. , 2019, , .		1
15	Changes in Whole Brain Dynamics and Connectivity Patterns during Sevoflurane- and Propofol-induced Unconsciousness Identified by Functional Magnetic Resonance Imaging. Anesthesiology, 2019, 130, 898-911.	2.5	54
16	The spectral exponent of the resting EEG indexes the presence of consciousness during unresponsiveness induced by propofol, xenon, and ketamine. Neurolmage, 2019, 189, 631-644.	4.2	185
17	Increased lucid dream frequency in long-term meditators but not following mindfulness-based stress reduction training Psychology of Consciousness: Theory Research, and Practice, 2019, 6, 40-54.	0.4	11
18	Functional â€~unlocking': bedside detection of covert awareness after severe brain damage. Brain, 2018, 141, 1239-1241.	7.6	7

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19	Perturbation of whole-brain dynamics in silico reveals mechanistic differences between brain states. Neurolmage, 2018, 169, 46-56.	4.2	83
20	Global structural integrity and effective connectivity in patients with disorders of consciousness. Brain Stimulation, 2018, 11, 358-365.	1.6	39
21	Human Rapid Eye Movement Sleep Shows Local Increases in Low-Frequency Oscillations and Global Decreases in High-Frequency Oscillations Compared to Resting Wakefulness. ENeuro, 2018, 5, ENEURO.0293-18.2018.	1.9	29
22	Evoked Alpha Power is Reduced in Disconnected Consciousness During Sleep and Anesthesia. Scientific Reports, 2018, 8, 16664.	3.3	28
23	Measures of metabolism and complexity in the brain of patients with disorders of consciousness. Neurolmage: Clinical, 2017, 14, 354-362.	2.7	133
24	The neural correlates of dreaming. Nature Neuroscience, 2017, 20, 872-878.	14.8	430
25	The Phenomenal Contents and Neural Correlates of Spontaneous Thoughts across Wakefulness, NREM Sleep, and REM Sleep. Journal of Cognitive Neuroscience, 2017, 29, 1766-1777.	2.3	43
26	Are the Neural Correlates of Consciousness in the Front or in the Back of the Cerebral Cortex? Clinical and Neuroimaging Evidence. Journal of Neuroscience, 2017, 37, 9603-9613.	3.6	360
27	Extended Multiple-Field High-Definition transcranial direct current stimulation (HD-tDCS) is well tolerated and safe in healthy adults. Restorative Neurology and Neuroscience, 2017, 35, 631-642.	0.7	25
28	Consciousness Regained: Disentangling Mechanisms, Brain Systems, and Behavioral Responses. Journal of Neuroscience, 2017, 37, 10882-10893.	3.6	92
29	Altered sleep homeostasis correlates with cognitive impairment in patients with focal epilepsy. Brain, 2017, 140, 1026-1040.	7.6	78
30	Integrated information theory: from consciousness to its physical substrate. Nature Reviews Neuroscience, 2016, 17, 450-461.	10.2	930
31	Neural correlates of consciousness: progress and problems. Nature Reviews Neuroscience, 2016, 17, 307-321.	10.2	966
32	Stratification of unresponsive patients by an independently validated index of brain complexity. Annals of Neurology, 2016, 80, 718-729.	5.3	309
33	Posterior and anterior cortex â€" where is the difference that makes the difference?. Nature Reviews Neuroscience, 2016, 17, 666-666.	10.2	51
34	Functional split brain in a driving/listening paradigm. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113 , $14444-14449$.	7.1	35
35	Consciousness and cortical responsiveness: a within-state study during non-rapid eye movement sleep. Scientific Reports, 2016, 6, 30932.	3.3	51
36	Resting-state Network-specific Breakdown of Functional Connectivity during Ketamine Alteration of Consciousness in Volunteers. Anesthesiology, 2016, 125, 873-888.	2.5	168

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37	Propofol anesthesia reduces Lempel-Ziv complexity of spontaneous brain activity in rats. Neuroscience Letters, 2016, 628, 132-135.	2.1	78
38	Propofol-Induced Frontal Cortex Disconnection: A Study of Resting-State Networks, Total Brain Connectivity, and Mean BOLD Signal Oscillation Frequencies. Brain Connectivity, 2016, 6, 225-237.	1.7	49
39	Exploring the Neurophysiological Correlates of Loss and Recovery of Consciousness: Perturbational Complexity., 2016,, 93-104.		5
40	Functional Neuroimaging Techniques. , 2016, , 31-47.		1
41	The Neurology of Consciousness. , 2016, , 407-461.		29
42	Preserved Covert Cognition in Noncommunicative Patients With Severe Brain Injury?. Neurorehabilitation and Neural Repair, 2015, 29, 308-317.	2.9	46
43	Stimulus Set Meaningfulness and Neurophysiological Differentiation: A Functional Magnetic Resonance Imaging Study. PLoS ONE, 2015, 10, e0125337.	2.5	69
44	Complexity of Multi-Dimensional Spontaneous EEG Decreases during Propofol Induced General Anaesthesia. PLoS ONE, 2015, 10, e0133532.	2.5	231
45	Rethinking segregation and integration: contributions of whole-brain modelling. Nature Reviews Neuroscience, 2015, 16, 430-439.	10.2	483
46	Consciousness and Complexity during Unresponsiveness Induced by Propofol, Xenon, and Ketamine. Current Biology, 2015, 25, 3099-3105.	3.9	308
47	On the Cerebral Origin of EEG Responses to TMS: Insights From Severe Cortical Lesions. Brain Stimulation, 2015, 8, 142-149.	1.6	87
48	Monitoring epilepsy in the intensive care unit: Current state of facts and potential interest of high density EEG. Brain Injury, 2014, 28, 1151-1155.	1.2	10
49	Age-Related Reorganizational Changes in Modularity and Functional Connectivity of Human Brain Networks. Brain Connectivity, 2014, 4, 662-676.	1.7	233
50	Nociception Coma Scale–Revised Scores Correlate With Metabolism in the Anterior Cingulate Cortex. Neurorehabilitation and Neural Repair, 2014, 28, 149-152.	2.9	36
51	Directed Information Transfer in Scalp Electroencephalographic Recordings. Clinical EEG and Neuroscience, 2014, 45, 33-39.	1.7	32
52	Diagnostic precision of PET imaging and functional MRI in disorders of consciousness: a clinical validation study. Lancet, The, 2014, 384, 514-522.	13.7	433
53	Quantifying Cortical EEG Responses to TMS in (Un)consciousness. Clinical EEG and Neuroscience, 2014, 45, 40-49.	1.7	116
54	Measuring Consciousness in Severely Damaged Brains. Annual Review of Neuroscience, 2014, 37, 457-478.	10.7	134

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55	Reversal of cortical information flow during visual imagery as compared to visual perception. Neurolmage, 2014, 100, 237-243.	4.2	90
56	Sleep and Consciousness., 2013, , 133-182.		21
57	Characterizing brain states with Granger causality. BMC Neuroscience, 2013, 14, .	1.9	0
58	Thalamus, Brainstem and Salience Network Connectivity Changes During Propofol-Induced Sedation and Unconsciousness. Brain Connectivity, 2013, 3, 273-285.	1.7	112
59	Dynamic Change of Global and Local Information Processing in Propofol-Induced Loss and Recovery of Consciousness. PLoS Computational Biology, 2013, 9, e1003271.	3.2	124
60	Consciousness and responsiveness. Current Opinion in Anaesthesiology, 2013, 26, 444-449.	2.0	31
61	A Theoretically Based Index of Consciousness Independent of Sensory Processing and Behavior. Science Translational Medicine, 2013, 5, 198ra105.	12.4	839
62	Interaction between Hippocampal and Striatal Systems Predicts Subsequent Consolidation of Motor Sequence Memory. PLoS ONE, 2013, 8, e59490.	2.5	105
63	Consciousness in humans and non-human animals: recent advances and future directions. Frontiers in Psychology, 2013, 4, 625.	2.1	170
64	Changes in Effective Connectivity by Propofol Sedation. PLoS ONE, 2013, 8, e71370.	2.5	28
65	Neuroimaging of Consciousness in the Vegetative and Minimally Conscious States., 2013, , 117-131.		0
66	Recovery of cortical effective connectivity and recovery of consciousness in vegetative patients. Brain, 2012, 135, 1308-1320.	7.6	400
67	Brain Connectivity in Disorders of Consciousness. Brain Connectivity, 2012, 2, 1-10.	1.7	85
68	Hierarchical clustering of brain activity during human nonrapid eye movement sleep. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 5856-5861.	7.1	165
69	Connectivity Changes Underlying Spectral EEG Changes during Propofol-Induced Loss of Consciousness. Journal of Neuroscience, 2012, 32, 7082-7090.	3.6	272
70	Functional Imaging and Impaired Consciousness. , 2012, , 25-34.		4
71	Using Transcranial Magnetic Stimulation to Measure Cerebral Connectivity in Patients with Disorders of Consciousness. , 2012, , 79-84.		0
72	Neural correlates of performance variability during motor sequence acquisition. NeuroImage, 2012, 60, 324-331.	4.2	68

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73	Granger Causality Analysis of Steady-State Electroencephalographic Signals during Propofol-Induced Anaesthesia. PLoS ONE, 2012, 7, e29072.	2.5	138
74	The Fate of Incoming Stimuli during NREM Sleep is Determined by Spindles and the Phase of the Slow Oscillation. Frontiers in Neurology, 2012, 3, 40.	2.4	139
75	Metabolic activity in external and internal awareness networks in severely brain-damaged patients. Journal of Rehabilitation Medicine, 2012, 44, 487-494.	1.1	119
76	Identifying the defaultâ€mode component in spatial IC analyses of patients with disorders of consciousness. Human Brain Mapping, 2012, 33, 778-796.	3.6	128
77	Functional neuroanatomy underlying the clinical subcategorization of minimally conscious state patients. Journal of Neurology, 2012, 259, 1087-1098.	3.6	209
78	Reduction in Inter-Hemispheric Connectivity in Disorders of Consciousness. PLoS ONE, 2012, 7, e37238.	2.5	48
79	Two Distinct Neuronal Networks Mediate the Awareness of Environment and of Self. Journal of Cognitive Neuroscience, 2011, 23, 570-578.	2.3	367
80	Brain functional integration decreases during propofol-induced loss of consciousness. NeuroImage, 2011, 57, 198-205.	4.2	239
81	"Relevance vector machine―consciousness classifier applied to cerebral metabolism of vegetative and locked-in patients. Neurolmage, 2011, 56, 797-808.	4.2	84
82	Does Sleep Promote False Memories?. Journal of Cognitive Neuroscience, 2011, 23, 26-40.	2.3	45
83	Preserved Feedforward But Impaired Top-Down Processes in the Vegetative State. Science, 2011, 332, 858-862.	12.6	444
84	Propofol Anesthesia and Sleep: A High-Density EEG Study. Sleep, 2011, 34, 283-291.	1.1	326
85	Influence of anesthesia on cerebral blood flow, cerebral metabolic rate, and brain functional connectivity. Current Opinion in Anaesthesiology, 2011, 24, 474-479.	2.0	41
86	Measuring the fading consciousness in the human brain. Current Opinion in Neurology, 2011, 24, 394-400.	3.6	38
87	Neural Precursors of Delayed Insight. Journal of Cognitive Neuroscience, 2011, 23, 1900-1910.	2.3	44
88	Interplay between spontaneous and induced brain activity during human non-rapid eye movement sleep. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 15438-15443.	7.1	171
89	Electrophysiological correlates of behavioural changes in vigilance in vegetative state and minimally conscious state. Brain, 2011, 134, 2222-2232.	7.6	128
90	Response to Comment on "Preserved Feedforward But Impaired Top-Down Processes in the Vegetative State― Science, 2011, 334, 1203-1203.	12.6	45

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91	Breakdown of within- and between-network Resting State Functional Magnetic Resonance Imaging Connectivity during Propofol-induced Loss of Consciousness. Anesthesiology, 2010, 113, 1038-1053.	2.5	576
92	Neuroimaging after coma. Neuroradiology, 2010, 52, 15-24.	2.2	54
93	The Nociception Coma Scale: A new tool to assess nociception in disorders of consciousness. Pain, 2010, 148, 215-219.	4.2	153
94	Visual fixation in the vegetative state: an observational case series PET study. BMC Neurology, 2010, 10, 35.	1.8	75
95	Brain Connectivity in Pathological and Pharmacological Coma. Frontiers in Systems Neuroscience, 2010, 4, 160.	2.5	69
96	Default network connectivity reflects the level of consciousness in non-communicative brain-damaged patients. Brain, 2010, 133, 161-171.	7.6	723
97	Willful Modulation of Brain Activity in Disorders of Consciousness. New England Journal of Medicine, 2010, 362, 579-589.	27.0	1,220
98	Functional Neuroimaging Approaches to the Changing Borders of Consciousness. Journal of Psychophysiology, 2010, 24, 68-75.	0.7	5
99	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, 261-274.	1.4	45
100	Diagnostic accuracy of the vegetative and minimally conscious state: Clinical consensus versus standardized neurobehavioral assessment. BMC Neurology, 2009, 9, 35.	1.8	957
101	Neurophysiological correlates of hypnotic analgesia. Contemporary Hypnosis, 2009, 26, 15-23.	0.7	14
102	Magnetic resonance spectroscopy and diffusion tensor imaging in coma survivors: promises and pitfalls. Progress in Brain Research, 2009, 177, 215-229.	1.4	47
103	Detecting consciousness in a total locked-in syndrome: An active event-related paradigm. Neurocase, 2009, 15, 271-277.	0.6	117
104	A perturbational approach for evaluating the brain's capacity for consciousness. Progress in Brain Research, 2009, 177, 201-214.	1.4	130
105	Theoretical approaches to the diagnosis of altered states of consciousness. Progress in Brain Research, 2009, 177, 383-398.	1.4	44
106	Functional Neuroimaging. , 2009, , 31-42.		10
107	Cognitive function in the locked-in syndrome. Journal of Neurology, 2008, 255, 323-330.	3.6	126
108	Consciousness and cerebral baseline activity fluctuations. Human Brain Mapping, 2008, 29, 868-874.	3.6	67

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109	Perception of pain in the minimally conscious state with PET activation: an observational study. Lancet Neurology, The, 2008, 7, 1013-1020.	10.2	417
110	A French validation study of the Coma Recovery Scale-Revised (CRS-R). Brain Injury, 2008, 22, 786-792.	1.2	127
111	Is there anybody in there? Detecting awareness in disorders of consciousness. Expert Review of Neurotherapeutics, 2008, 8, 1719-1730.	2.8	42
112	Spontaneous neural activity during human slow wave sleep. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 15160-15165.	7.1	383
113	The changing spectrum of coma. Nature Clinical Practice Neurology, 2008, 4, 544-546.	2.5	86
114	Neuroimaging activation studies in the vegetative state: predictors of recovery?. Clinical Medicine, 2008, 8, 502-507.	1.9	97
115	Brain Function in Physiologically, Pharmacologically, and Pathologically Altered States of Consciousness. International Anesthesiology Clinics, 2008, 46, 131-146.	0.8	41
116	Sleep-Related Hippocampo-Cortical Interplay during Emotional Memory Recollection. PLoS Biology, 2007, 5, e282.	5.6	225
117	Sleep transforms the cerebral trace of declarative memories. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 18778-18783.	7.1	338
118	Using Functional Magnetic Resonance Imaging to Detect Covert Awareness in the Vegetative State. Archives of Neurology, 2007, 64, 1098.	4.5	114
119	What is it like to be vegetative or minimally conscious?. Current Opinion in Neurology, 2007, 20, 609-613.	3.6	98
120	Naloxone-insensitive Epidural Placebo Analgesia in a Chronic Pain Patient. Anesthesiology, 2007, 106, 1239-1242.	2.5	23
121	Detecting Awareness in the Vegetative State. Science, 2006, 313, 1402-1402.	12.6	1,465
122	Tracking the recovery of consciousness from coma. Journal of Clinical Investigation, 2006, 116, 1823-1825.	8.2	118
123	Functional neuroanatomy of the hypnotic state. Journal of Physiology (Paris), 2006, 99, 463-469.	2.1	151
124	Does the FOUR score correctly diagnose the vegetative and minimally conscious states?. Annals of Neurology, 2006, 60, 744-745.	5.3	97
125	Orbitofrontal cortex involvement in chronic analgesic-overuse headache evolving from episodic migraine. Brain, 2006, 129, 543-550.	7.6	271
126	Residual cognitive function in comatose, vegetative and minimally conscious states. Current Opinion in Neurology, 2005, 18, 726-733.	3.6	88

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127	Cerebral processing of auditory and noxious stimuli in severely brain injured patients: Differences between VS and MCS. Neuropsychological Rehabilitation, 2005, 15, 283-289.	1.6	122
128	Human cognition during REM sleep and the activity profile within frontal and parietal cortices: a reappraisal of functional neuroimaging data. Progress in Brain Research, 2005, 150, 219-595.	1.4	198
129	Auditory Processing in Severely Brain Injured Patients. Archives of Neurology, 2004, 61, 233.	4.5	335
130	Off-line processing of memory traces during human sleep: Contribution of functional neuroimaging. Sleep and Biological Rhythms, 2003, 1, 75-83.	1.0	0
131	Festina Lente: Evidences for Fast and Slow Learning Processes and a Role for Sleep in Human Motor Skill Learning. Learning and Memory, 2003, 10, 237-239.	1.3	33
132	Brain function in the vegetative state. Acta Neurologica Belgica, 2002, 102, 177-85.	1.1	56