Adrian Owen

List of Publications by Year
in descending order

91 papers	15,000 citations	61984 43 h-index	43889 91 g-index
97 all docs	97 docs citations	97 times ranked	12280 citing authors

#	Article	IF	Citations
1	Common regions of the human frontal lobe recruited by diverse cognitive demands. Trends in Neurosciences, 2000, 23, 475-483.	8.6	2,158
2	Detecting Awareness in the Vegetative State. Science, 2006, 313, 1402-1402.	12.6	1,465
3	Willful Modulation of Brain Activity in Disorders of Consciousness. New England Journal of Medicine, 2010, 362, 579-589.	27.0	1,220
4	Planning and spatial working memory following frontal lobe lesions in man. Neuropsychologia, 1990, 28, 1021-1034.	1.6	1,150
5	Brain function in coma, vegetative state, and related disorders. Lancet Neurology, The, 2004, 3, 537-546.	10.2	888
6	Putting brain training to the test. Nature, 2010, 465, 775-778.	27.8	875
7	The cognitive functions of the caudate nucleus. Progress in Neurobiology, 2008, 86, 141-155.	5.7	716
8	Bedside detection of awareness in the vegetative state: a cohort study. Lancet, The, 2011, 378, 2088-2094.	13.7	559
9	A study of performance on tests from the CANTAB battery sensitive to frontal lobe dysfunction in a large sample of normal volunteers: Implications for theories of executive functioning and cognitive aging. Journal of the International Neuropsychological Society, 1998, 4, 474-90.	1.8	503
10	The Functional Organization of Working Memory Processes Within Human Lateral Frontal Cortex: The Contribution of Functional Neuroimaging. European Journal of Neuroscience, 1997, 9, 1329-1339.	2.6	397
11	Encoding Strategies Dissociate Prefrontal Activity from Working Memory Demand. Neuron, 2003, 37, 361-367.	8.1	320
12	Fractionating Human Intelligence. Neuron, 2012, 76, 1225-1237.	8.1	307
13	When thoughts become action: An fMRI paradigm to study volitional brain activity in non-communicative brain injured patients. NeuroImage, 2007, 36, 979-992.	4.2	299
14	Dissociating speech perception and comprehension at reduced levels of awareness. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 16032-16037.	7.1	238
15	A role for the default mode network in the bases of disorders of consciousness. Annals of Neurology, 2012, 72, 335-343.	5.3	231
16	The role of the basal ganglia in learning and memory: Neuropsychological studies. Behavioural Brain Research, 2009, 199, 53-60.	2.2	217
17	Diffusion weighted imaging distinguishes the vegetative state from the minimally conscious state. NeuroImage, 2011, 54, 103-112.	4.2	213
18	Detecting awareness after severe brain injury. Nature Reviews Neuroscience, 2013, 14, 801-809.	10.2	163

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19	Consciousness-specific dynamic interactions of brain integration and functional diversity. Nature Communications, 2019, 10, 4616.	12.8	163
20	A common neural code for similar conscious experiences in different individuals. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 14277-14282.	7.1	143
21	The Effect of an Online Cognitive Training Package in Healthy Older Adults: An Online Randomized Controlled Trial. Journal of the American Medical Directors Association, 2015, 16, 990-997.	2.5	143
22	Thalamic and extrathalamic mechanisms of consciousness after severe brain injury. Annals of Neurology, 2015, 78, 68-76.	5.3	137
23	Prefrontal cortical involvement in verbal encoding strategies. European Journal of Neuroscience, 2004, 19, 3365-3370.	2.6	125
24	Making Every Word Count for Nonresponsive Patients. JAMA Neurology, 2013, 70, 1235-41.	9.0	107
25	Clinical and advanced neurophysiology in the prognostic and diagnostic evaluation of disorders of consciousness: review of an IFCN-endorsed expert group. Clinical Neurophysiology, 2020, 131, 2736-2765.	1.5	103
26	Brainâ€“computer interfaces for communication with nonresponsive patients. Annals of Neurology, 2012, 72, 312-323.	5.3	100
27	Detecting Awareness in the Vegetative State. Annals of the New York Academy of Sciences, 2008, 1129, 130-138.	3.8	97
28	Detecting Awareness in the Vegetative State: Electroencephalographic Evidence for Attempted Movements to Command. PLoS ONE, 2012, 7, e49933.	2.5	97
29	A Thalamocortical Mechanism for the Absence of Overt Motor Behavior in Covertly Aware Patients. JAMA Neurology, 2015, 72, 1442.	9.0	90
30	Natural History of Cognitive Impairment in Critical Illness Survivors. A Systematic Review. American Journal of Respiratory and Critical Care Medicine, 2020, 202, 193-201.	5.6	78
31	Brainâ€“computer interfacing in disorders of consciousness. Brain Injury, 2012, 26, 1510-1522.	1.2	74
32	Dissociable effects of self-reported daily sleep duration on high-level cognitive abilities. Sleep, 2018, 41, .	1.1	72
33	Disentangling disorders of consciousness: Insights from diffusion tensor imaging and machine learning. Human Brain Mapping, 2017, 38, 431-443.	3.6	71
34	Relationship between the anterior forebrain mesocircuit and the default mode network in the structural bases of disorders of consciousness. NeuroImage: Clinical, 2016, 10, 27-35.	2.7	66
35	Risk, diagnostic error, and the clinical science of consciousness. NeuroImage: Clinical, 2015, 7, 588-597.	2.7	65
36	Multiple tasks and neuroimaging modalities increase the likelihood of detecting covert awareness in patients with disorders of consciousness. Frontiers in Human Neuroscience, 2014, 8, 950.	2.0	62

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37	Detecting and interpreting conscious experiences in behaviorally non-responsive patients. NeuroImage, 2017, 145, 304-313.	4.2	61
38	Are intrinsic neural timescales related to sensory processing? Evidence from abnormal behavioral states. NeuroImage, 2021, 226, 117579.	4.2	60
39	Anesthesia and neuroimaging: investigating the neural correlates of unconsciousness. Trends in Cognitive Sciences, 2015, 19, 100-107.	7.8	58
40	A hierarchy of event-related potential markers of auditory processing in disorders of consciousness. NeuroImage: Clinical, 2016, 12, 359-371.	2.7	54
41	Consciousness & Brain Functional Complexity in Propofol Anaesthesia. Scientific Reports, 2020, 10, 1018.	3.3	53
42	Somatosensory attention identifies both overt and covert awareness in disorders of consciousness. Annals of Neurology, 2016, 80, 412-423.	5.3	51
43	The Clinical Utility of fMRI for Identifying Covert Awareness in the Vegetative State: A Comparison of Sensitivity between 3T and 1.5T. PLoS ONE, 2014, 9, e95082.	2.5	48
44	Striatum in stimulusâ€“response learning via feedback and in decision making. NeuroImage, 2014, 101, 448-457.	4.2	46
45	Dorsal striatum mediates cognitive control, not cognitive effort per se , in decision-making: An event-related fMRI study. NeuroImage, 2015, 114, 170-184.	4.2	46
46	Functional diversity of brain networks supports consciousness and verbal intelligence. Scientific Reports, 2018, 8, 13259.	3.3	45
47	Single-session communication with a locked-in patient by functional near-infrared spectroscopy. Neurophotonics, 2017, 4, 1.	3.3	42
48	Network mechanisms of intentional learning. NeuroImage, 2016, 127, 123-134.	4.2	39
49	Differential Effects of Parkinson's Disease and Dopamine Replacement on Memory Encoding and Retrieval. PLoS ONE, 2013, 8, e74044.	2.5	36
50	The Search for Consciousness. Neuron, 2019, 102, 526-528.	8.1	32
51	Diffusion tensor imaging and white matter abnormalities in patients with disorders of consciousness. Frontiers in Human Neuroscience, 2014, 8, 1028.	2.0	30
52	Ethical considerations in functional magnetic resonance imaging research in acutely comatose patients. Brain, 2016, 139, 292-299.	7.6	28
53	Improving Diagnosis and Prognosis in Acute Severe Brain Injury: A Multimodal Imaging Protocol. Frontiers in Neurology, 2021, 12, 757219.	2.4	28
54	An Ethics of Welfare for Patients Diagnosed as Vegetative With Covert Awareness. AJOB Neuroscience, 2015, 6, 31-41.	1.1	26

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55	Diagnostic accuracy of brain imaging in the vegetative state. Nature Reviews Neurology, 2014, 10, 370-371.	10.1	24
56	Learning to be inflexible: Enhanced attentional biases in Parkinson's disease. Cortex, 2016, 82, 24-34.	2.4	24
57	Whole-brain modelling identifies distinct but convergent paths to unconsciousness in anaesthesia and disorders of consciousness. Communications Biology, 2022, 5, 384.	4.4	23
58	Targeted training: Converging evidence against the transferable benefits of online brain training on cognitive function. Neuropsychologia, 2018, 117, 541-550.	1.6	22
59	The neural basis of external responsiveness in prolonged disorders of consciousness. NeuroImage: Clinical, 2019, 22, 101791.	2.7	22
60	Prolonged disorders of consciousness: a critical evaluation of the new UK guidelines. Brain, 2021, 144, 1655-1660.	7.6	22
61	Examining dorsal striatum in cognitive effort using Parkinson's disease and fMRI. Annals of Clinical and Translational Neurology, 2014, 1, 390-400.	3.7	21
62	Progression from Vegetative to Minimally Conscious State Is Associated with Changes in Brain Neural Response to Passive Tasks: A Longitudinal Single-Case Functional MRI Study. Journal of the International Neuropsychological Society, 2016, 22, 620-630.	1.8	21
63	Feasibility of a web-based neurocognitive battery for assessing cognitive function in critical illness survivors. PLoS ONE, 2019, 14, e0215203.	2.5	19
64	Ethics of neuroimaging after serious brain injury. BMC Medical Ethics, 2014, 15, 41.	2.4	18
65	Modeling an auditory stimulated brain under altered states of consciousness using the generalized Ising model. NeuroImage, 2020, 223, 117367.	4.2	18
66	Brain training habits are not associated with generalized benefits to cognition: An online study of over 1000 â€œbrain trainersâ€. Journal of Experimental Psychology: General, 2021, 150, 729-738.	2.1	17
67	Alive inside. Bioethics, 2020, 34, 295-305.	1.4	16
68	Improving diagnosis and prognosis in disorders of consciousness. Brain, 2020, 143, 1050-1053.	7.6	16
69	A P300â€based cognitive assessment battery. Brain and Behavior, 2015, 5, e00336.	2.2	15
70	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.	1.7	14
71	Toward a complete taxonomy of resting state networks across wakefulness and sleep: an assessment of spatially distinct resting state networks using independent component analysis. Sleep, 2019, 42, .	1.1	14
72	Consciousness and the Dimensionality of DOC Patients via the Generalized Ising Model. Journal of Clinical Medicine, 2020, 9, 1342.	2.4	14

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73	Examining the relationship between measures of autistic traits and neural synchrony during movies in children with and without autism. NeuroImage: Clinical, 2020, 28, 102477.	2.7	13
74	Network dynamics scale with levels of awareness. NeuroImage, 2022, 254, 119128.	4.2	13
75	Using facial electromyography to detect preserved emotional processing in disorders of consciousness: A proof-of-principle study. Clinical Neurophysiology, 2016, 127, 3000-3006.	1.5	12
76	Dorsal striatum does not mediate feedback-based, stimulus-response learning: An event-related fMRI study in patients with Parkinson's disease tested on and off dopaminergic therapy. NeuroImage, 2019, 185, 455-470.	4.2	12
77	Brain Responses to Propofol in Advance of Recovery from Coma and Disorders of Consciousness: A Preliminary Study. American Journal of Respiratory and Critical Care Medicine, 2022, 205, 171-182.	5.6	10
78	Individualized assessment of residual cognition in patients with disorders of consciousness. NeuroImage: Clinical, 2020, 28, 102472.	2.7	9
79	Canadian Perspectives on the Clinical Actionability of Neuroimaging in Disorders of Consciousness. Canadian Journal of Neurological Sciences, 2015, 42, 96-105.	0.5	8
80	Dorsal striatum mediates deliberate decision making, not lateâ€stage, stimulusâ€“response learning. Human Brain Mapping, 2017, 38, 6133-6156.	3.6	8
81	Caregiver reactions to neuroimaging evidence of covert consciousness in patients with severe brain injury: a qualitative interview study. BMC Medical Ethics, 2021, 22, 105.	2.4	8
82	Spatial structure normalises working memory performance in Parkinson's disease. Cortex, 2017, 96, 73-82.	2.4	7
83	Cortical Function in Acute Severe Traumatic Brain Injury and at Recovery: A Longitudinal fMRI Case Study. Brain Sciences, 2020, 10, 604.	2.3	5
84	Longitudinal white matter changes associated with cognitive training. Human Brain Mapping, 2021, 42, 4722-4739.	3.6	5
85	Unlocking the Voices of Patients with Severe Brain Injury. Neuroethics, 2022, 15, 1.	2.8	5
86	Functional neuroimaging after severe anoxic brain injury in children may reveal preserved, yet covert, cognitive function. Human Brain Mapping, 2017, 38, 4832-4833.	3.6	3
87	Striatum-Mediated Deficits in Stimulus-Response Learning and Decision-Making in OCD. Frontiers in Psychiatry, 2020, 11, 13.	2.6	3
88	Confronting the grey zone after severe brain injury. Emerging Topics in Life Sciences, 2019, 3, 707-711.	2.6	3
89	Operationalizing Neuroimaging for Disorders of Consciousness: The Canadian Context. Canadian Journal of Neurological Sciences, 2016, 43, 578-580.	0.5	2
90	Protocol for the Prognostication of Consciousness Recovery Following a Brain Injury. Frontiers in Human Neuroscience, 2020, 14, 582125.	2.0	1

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91	Exploringï»¿ electroencephalography with a model inspired by quantum mechanics. Scientific Reports, 2021, 11, 19771.	3.3	1