

# Adrian Owen

## List of Publications by Year in descending order

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Version: 2024-02-01

91  
papers

15,000  
citations

61857

43  
h-index

43802

91  
g-index

97  
all docs

97  
docs citations

97  
times ranked

12280  
citing authors

#	ARTICLE	IF	CITATIONS
1	Brain Responses to Propofol in Advance of Recovery from Coma and Disorders of Consciousness: A Preliminary Study. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2022, 205, 171-182.	2.5	10
2	Unlocking the Voices of Patients with Severe Brain Injury. <i>Neuroethics</i> , 2022, 15, 1.	1.7	5
3	Network dynamics scale with levels of awareness. <i>NeuroImage</i> , 2022, 254, 119128.	2.1	13
4	Whole-brain modelling identifies distinct but convergent paths to unconsciousness in anaesthesia and disorders of consciousness. <i>Communications Biology</i> , 2022, 5, 384.	2.0	23
5	Are intrinsic neural timescales related to sensory processing? Evidence from abnormal behavioral states. <i>NeuroImage</i> , 2021, 226, 117579.	2.1	60
6	Prolonged disorders of consciousness: a critical evaluation of the new UK guidelines. <i>Brain</i> , 2021, 144, 1655-1660.	3.7	22
7	Brain training habits are not associated with generalized benefits to cognition: An online study of over 1000 "brain trainers". <i>Journal of Experimental Psychology: General</i> , 2021, 150, 729-738.	1.5	17
8	Longitudinal white matter changes associated with cognitive training. <i>Human Brain Mapping</i> , 2021, 42, 4722-4739.	1.9	5
9	Caregiver reactions to neuroimaging evidence of covert consciousness in patients with severe brain injury: a qualitative interview study. <i>BMC Medical Ethics</i> , 2021, 22, 105.	1.0	8
10	Exploring $\gamma$ electroencephalography with a model inspired by quantum mechanics. <i>Scientific Reports</i> , 2021, 11, 19771.	1.6	1
11	Improving Diagnosis and Prognosis in Acute Severe Brain Injury: A Multimodal Imaging Protocol. <i>Frontiers in Neurology</i> , 2021, 12, 757219.	1.1	28
12	Alive inside. <i>Bioethics</i> , 2020, 34, 295-305.	0.7	16
13	Modeling an auditory stimulated brain under altered states of consciousness using the generalized Ising model. <i>NeuroImage</i> , 2020, 223, 117367.	2.1	18
14	Clinical and advanced neurophysiology in the prognostic and diagnostic evaluation of disorders of consciousness: review of an IFCN-endorsed expert group. <i>Clinical Neurophysiology</i> , 2020, 131, 2736-2765.	0.7	103
15	Cortical Function in Acute Severe Traumatic Brain Injury and at Recovery: A Longitudinal fMRI Case Study. <i>Brain Sciences</i> , 2020, 10, 604.	1.1	5
16	Individualized assessment of residual cognition in patients with disorders of consciousness. <i>NeuroImage: Clinical</i> , 2020, 28, 102472.	1.4	9
17	Examining the relationship between measures of autistic traits and neural synchrony during movies in children with and without autism. <i>NeuroImage: Clinical</i> , 2020, 28, 102477.	1.4	13
18	Protocol for the Prognostication of Consciousness Recovery Following a Brain Injury. <i>Frontiers in Human Neuroscience</i> , 2020, 14, 582125.	1.0	1

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19	Consciousness and the Dimensionality of DOC Patients via the Generalized Ising Model. <i>Journal of Clinical Medicine</i> , 2020, 9, 1342.	1.0	14
20	Striatum-Mediated Deficits in Stimulus-Response Learning and Decision-Making in OCD. <i>Frontiers in Psychiatry</i> , 2020, 11, 13.	1.3	3
21	Natural History of Cognitive Impairment in Critical Illness Survivors. A Systematic Review. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2020, 202, 193-201.	2.5	78
22	Improving diagnosis and prognosis in disorders of consciousness. <i>Brain</i> , 2020, 143, 1050-1053.	3.7	16
23	Consciousness & Brain Functional Complexity in Propofol Anaesthesia. <i>Scientific Reports</i> , 2020, 10, 1018.	1.6	53
24	Consciousness-specific dynamic interactions of brain integration and functional diversity. <i>Nature Communications</i> , 2019, 10, 4616.	5.8	163
25	The Search for Consciousness. <i>Neuron</i> , 2019, 102, 526-528.	3.8	32
26	The neural basis of external responsiveness in prolonged disorders of consciousness. <i>NeuroImage: Clinical</i> , 2019, 22, 101791.	1.4	22
27	Feasibility of a web-based neurocognitive battery for assessing cognitive function in critical illness survivors. <i>PLoS ONE</i> , 2019, 14, e0215203.	1.1	19
28	Toward a complete taxonomy of resting state networks across wakefulness and sleep: an assessment of spatially distinct resting state networks using independent component analysis. <i>Sleep</i> , 2019, 42, .	0.6	14
29	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. <i>NeuroImage</i> , 2019, 185, 455-470.	2.1	12
30	Confronting the grey zone after severe brain injury. <i>Emerging Topics in Life Sciences</i> , 2019, 3, 707-711.	1.1	3
31	Functional diversity of brain networks supports consciousness and verbal intelligence. <i>Scientific Reports</i> , 2018, 8, 13259.	1.6	45
32	Dissociable effects of self-reported daily sleep duration on high-level cognitive abilities. <i>Sleep</i> , 2018, 41, .	0.6	72
33	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. <i>Brain Connectivity</i> , 2018, 8, 444-455.	0.8	14
34	Targeted training: Converging evidence against the transferable benefits of online brain training on cognitive function. <i>Neuropsychologia</i> , 2018, 117, 541-550.	0.7	22
35	Detecting and interpreting conscious experiences in behaviorally non-responsive patients. <i>NeuroImage</i> , 2017, 145, 304-313.	2.1	61
36	Dorsal striatum mediates deliberate decision making, not late-stage, stimulus-response learning. <i>Human Brain Mapping</i> , 2017, 38, 6133-6156.	1.9	8

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37	Functional neuroimaging after severe anoxic brain injury in children may reveal preserved, yet covert, cognitive function. <i>Human Brain Mapping</i> , 2017, 38, 4832-4833.	1.9	3
38	Spatial structure normalises working memory performance in Parkinson's disease. <i>Cortex</i> , 2017, 96, 73-82.	1.1	7
39	Disentangling disorders of consciousness: Insights from diffusion tensor imaging and machine learning. <i>Human Brain Mapping</i> , 2017, 38, 431-443.	1.9	71
40	Single-session communication with a locked-in patient by functional near-infrared spectroscopy. <i>Neurophotonics</i> , 2017, 4, 1.	1.7	42
41	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. <i>Journal of the International Neuropsychological Society</i> , 2016, 22, 620-630.	1.2	21
42	Network mechanisms of intentional learning. <i>NeuroImage</i> , 2016, 127, 123-134.	2.1	39
43	A hierarchy of event-related potential markers of auditory processing in disorders of consciousness. <i>NeuroImage: Clinical</i> , 2016, 12, 359-371.	1.4	54
44	Using facial electromyography to detect preserved emotional processing in disorders of consciousness: A proof-of-principle study. <i>Clinical Neurophysiology</i> , 2016, 127, 3000-3006.	0.7	12
45	Somatosensory attention identifies both overt and covert awareness in disorders of consciousness. <i>Annals of Neurology</i> , 2016, 80, 412-423.	2.8	51
46	Operationalizing Neuroimaging for Disorders of Consciousness: The Canadian Context. <i>Canadian Journal of Neurological Sciences</i> , 2016, 43, 578-580.	0.3	2
47	Learning to be inflexible: Enhanced attentional biases in Parkinson's disease. <i>Cortex</i> , 2016, 82, 24-34.	1.1	24
48	Ethical considerations in functional magnetic resonance imaging research in acutely comatose patients. <i>Brain</i> , 2016, 139, 292-299.	3.7	28
49	Relationship between the anterior forebrain mesocircuit and the default mode network in the structural bases of disorders of consciousness. <i>NeuroImage: Clinical</i> , 2016, 10, 27-35.	1.4	66
50	Canadian Perspectives on the Clinical Actionability of Neuroimaging in Disorders of Consciousness. <i>Canadian Journal of Neurological Sciences</i> , 2015, 42, 96-105.	0.3	8
51	Anesthesia and neuroimaging: investigating the neural correlates of unconsciousness. <i>Trends in Cognitive Sciences</i> , 2015, 19, 100-107.	4.0	58
52	An Ethics of Welfare for Patients Diagnosed as Vegetative With Covert Awareness. <i>AJOB Neuroscience</i> , 2015, 6, 31-41.	0.6	26
53	Thalamic and extrathalamic mechanisms of consciousness after severe brain injury. <i>Annals of Neurology</i> , 2015, 78, 68-76.	2.8	137
54	Dorsal striatum mediates cognitive control, not cognitive effort per se, in decision-making: An event-related fMRI study. <i>NeuroImage</i> , 2015, 114, 170-184.	2.1	46

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55	The Effect of an Online Cognitive Training Package in Healthy Older Adults: An Online Randomized Controlled Trial. <i>Journal of the American Medical Directors Association</i> , 2015, 16, 990-997.	1.2	143
56	A Thalamocortical Mechanism for the Absence of Overt Motor Behavior in Covertly Aware Patients. <i>JAMA Neurology</i> , 2015, 72, 1442.	4.5	90
57	A P300-based cognitive assessment battery. <i>Brain and Behavior</i> , 2015, 5, e00336.	1.0	15
58	Risk, diagnostic error, and the clinical science of consciousness. <i>NeuroImage: Clinical</i> , 2015, 7, 588-597.	1.4	65
59	The Clinical Utility of fMRI for Identifying Covert Awareness in the Vegetative State: A Comparison of Sensitivity between 3T and 1.5T. <i>PLoS ONE</i> , 2014, 9, e95082.	1.1	48
60	Multiple tasks and neuroimaging modalities increase the likelihood of detecting covert awareness in patients with disorders of consciousness. <i>Frontiers in Human Neuroscience</i> , 2014, 8, 950.	1.0	62
61	Striatum in stimulus-response learning via feedback and in decision making. <i>NeuroImage</i> , 2014, 101, 448-457.	2.1	46
62	Examining dorsal striatum in cognitive effort using Parkinson's disease and fMRI. <i>Annals of Clinical and Translational Neurology</i> , 2014, 1, 390-400.	1.7	21
63	Diagnostic accuracy of brain imaging in the vegetative state. <i>Nature Reviews Neurology</i> , 2014, 10, 370-371.	4.9	24
64	A common neural code for similar conscious experiences in different individuals. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 14277-14282.	3.3	143
65	Ethics of neuroimaging after serious brain injury. <i>BMC Medical Ethics</i> , 2014, 15, 41.	1.0	18
66	Diffusion tensor imaging and white matter abnormalities in patients with disorders of consciousness. <i>Frontiers in Human Neuroscience</i> , 2014, 8, 1028.	1.0	30
67	Detecting awareness after severe brain injury. <i>Nature Reviews Neuroscience</i> , 2013, 14, 801-809.	4.9	163
68	Making Every Word Count for Nonresponsive Patients. <i>JAMA Neurology</i> , 2013, 70, 1235-41.	4.5	107
69	Differential Effects of Parkinson's Disease and Dopamine Replacement on Memory Encoding and Retrieval. <i>PLoS ONE</i> , 2013, 8, e74044.	1.1	36
70	Brain-computer interfacing in disorders of consciousness. <i>Brain Injury</i> , 2012, 26, 1510-1522.	0.6	74
71	A role for the default mode network in the bases of disorders of consciousness. <i>Annals of Neurology</i> , 2012, 72, 335-343.	2.8	231
72	Brain-computer interfaces for communication with nonresponsive patients. <i>Annals of Neurology</i> , 2012, 72, 312-323.	2.8	100

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73	Fractionating Human Intelligence. <i>Neuron</i> , 2012, 76, 1225-1237.	3.8	307
74	Detecting Awareness in the Vegetative State: Electroencephalographic Evidence for Attempted Movements to Command. <i>PLoS ONE</i> , 2012, 7, e49933.	1.1	97
75	Diffusion weighted imaging distinguishes the vegetative state from the minimally conscious state. <i>NeuroImage</i> , 2011, 54, 103-112.	2.1	213
76	Bedside detection of awareness in the vegetative state: a cohort study. <i>Lancet, The</i> , 2011, 378, 2088-2094.	6.3	559
77	Putting brain training to the test. <i>Nature</i> , 2010, 465, 775-778.	13.7	875
78	Willful Modulation of Brain Activity in Disorders of Consciousness. <i>New England Journal of Medicine</i> , 2010, 362, 579-589.	13.9	1,220
79	The role of the basal ganglia in learning and memory: Neuropsychological studies. <i>Behavioural Brain Research</i> , 2009, 199, 53-60.	1.2	217
80	<i>Detecting Awareness in the Vegetative State</i>. <i>Annals of the New York Academy of Sciences</i> , 2008, 1129, 130-138.	1.8	97
81	The cognitive functions of the caudate nucleus. <i>Progress in Neurobiology</i> , 2008, 86, 141-155.	2.8	716
82	Dissociating speech perception and comprehension at reduced levels of awareness. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 16032-16037.	3.3	238
83	When thoughts become action: An fMRI paradigm to study volitional brain activity in non-communicative brain injured patients. <i>NeuroImage</i> , 2007, 36, 979-992.	2.1	299
84	Detecting Awareness in the Vegetative State. <i>Science</i> , 2006, 313, 1402-1402.	6.0	1,465
85	Prefrontal cortical involvement in verbal encoding strategies. <i>European Journal of Neuroscience</i> , 2004, 19, 3365-3370.	1.2	125
86	Brain function in coma, vegetative state, and related disorders. <i>Lancet Neurology, The</i> , 2004, 3, 537-546.	4.9	888
87	Encoding Strategies Dissociate Prefrontal Activity from Working Memory Demand. <i>Neuron</i> , 2003, 37, 361-367.	3.8	320
88	Common regions of the human frontal lobe recruited by diverse cognitive demands. <i>Trends in Neurosciences</i> , 2000, 23, 475-483.	4.2	2,158
89	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. <i>Journal of the International Neuropsychological Society</i> , 1998, 4, 474-90.	1.2	503
90	The Functional Organization of Working Memory Processes Within Human Lateral Frontal Cortex: The Contribution of Functional Neuroimaging. <i>European Journal of Neuroscience</i> , 1997, 9, 1329-1339.	1.2	397

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91	Planning and spatial working memory following frontal lobe lesions in man. <i>Neuropsychologia</i> , 1990, 28, 1021-1034.	0.7	1,150