

# Adrian M Owen

## List of Publications by Citations

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256  
papers

31,026  
citations

79  
h-index

175  
g-index

270  
ext. papers

34,737  
ext. citations

6.8  
avg, IF

7.31  
L-index

#	Paper	IF	Citations
256	N-back working memory paradigm: a meta-analysis of normative functional neuroimaging studies. <i>Human Brain Mapping</i> , <b>2005</b> , 25, 46-59	5.9	2272
255	Common regions of the human frontal lobe recruited by diverse cognitive demands. <i>Trends in Neurosciences</i> , <b>2000</b> , 23, 475-83	13.3	1867
254	Detecting awareness in the vegetative state. <i>Science</i> , <b>2006</b> , 313, 1402	33.3	1037
253	Planning and spatial working memory following frontal lobe lesions in man. <i>Neuropsychologia</i> , <b>1990</b> , 28, 1021-34	3.2	1028
252	The problem of functional localization in the human brain. <i>Nature Reviews Neuroscience</i> , <b>2002</b> , 3, 243-9	13.5	981
251	Willful modulation of brain activity in disorders of consciousness. <i>New England Journal of Medicine</i> , <b>2010</b> , 362, 579-89	59.2	937
250	Anterior prefrontal cortex: insights into function from anatomy and neuroimaging. <i>Nature Reviews Neuroscience</i> , <b>2004</b> , 5, 184-94	13.5	905
249	The role of the right inferior frontal gyrus: inhibition and attentional control. <i>NeuroImage</i> , <b>2010</b> , 50, 1313-9	13.9	863
248	Brain function in coma, vegetative state, and related disorders. <i>Lancet Neurology</i> , <b>2004</b> , 3, 537-46	24.1	717
247	Putting brain training to the test. <i>Nature</i> , <b>2010</b> , 465, 775-8	50.4	709
246	Choosing between small, likely rewards and large, unlikely rewards activates inferior and orbital prefrontal cortex. <i>Journal of Neuroscience</i> , <b>1999</b> , 19, 9029-38	6.6	671
245	Extra-dimensional versus intra-dimensional set shifting performance following frontal lobe excisions, temporal lobe excisions or amygdalo-hippocampectomy in man. <i>Neuropsychologia</i> , <b>1991</b> , 29, 993-1006	3.2	569
244	Contrasting mechanisms of impaired attentional set-shifting in patients with frontal lobe damage or Parkinson's disease. <i>Brain</i> , <b>1993</b> , 116 ( Pt 5), 1159-75	11.2	555
243	The cognitive functions of the caudate nucleus. <i>Progress in Neurobiology</i> , <b>2008</b> , 86, 141-55	10.9	542
242	Defining the neural mechanisms of probabilistic reversal learning using event-related functional magnetic resonance imaging. <i>Journal of Neuroscience</i> , <b>2002</b> , 22, 4563-7	6.6	534
241	Visuo-spatial short-term recognition memory and learning after temporal lobe excisions, frontal lobe excisions or amygdalo-hippocampectomy in man. <i>Neuropsychologia</i> , <b>1995</b> , 33, 1-24	3.2	447
240	Bedside detection of awareness in the vegetative state: a cohort study. <i>Lancet</i> , <b>2011</b> , 378, 2088-94	40	440

239	Orbitofrontal dysfunction in patients with obsessive-compulsive disorder and their unaffected relatives. <i>Science</i> , <b>2008</b> , 321, 421-2	33.3	420
238	Cognitive impairments in early Parkinson's disease are accompanied by reductions in activity in frontostriatal neural circuitry. <i>Journal of Neuroscience</i> , <b>2003</b> , 23, 6351-6	6.6	419
237	Methylphenidate enhances working memory by modulating discrete frontal and parietal lobe regions in the human brain. <i>Journal of Neuroscience</i> , <b>2000</b> , 20, RC65	6.6	412
236	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. Cambridge Neuropsychological Test Automated Battery. <i>Journal of the International Neuropsychological Society</i> , <b>1998</b> , 4, 474-90	3.1	412
235	Planning and spatial working memory: a positron emission tomography study in humans. <i>European Journal of Neuroscience</i> , <b>1996</b> , 8, 353-64	3.5	392
234	Cognitive dysfunction in Parkinson's disease: the role of frontostriatal circuitry. <i>Neuroscientist</i> , <b>2004</b> , 10, 525-37	7.6	357
233	Dopaminergic modulation of high-level cognition in Parkinson's disease: the role of the prefrontal cortex revealed by PET. <i>Brain</i> , <b>2002</b> , 125, 584-94	11.2	341
232	The functional organization of working memory processes within human lateral frontal cortex: the contribution of functional neuroimaging. <i>European Journal of Neuroscience</i> , <b>1997</b> , 9, 1329-39	3.5	336
231	Spatial and non-spatial working memory at different stages of Parkinson's disease. <i>Neuropsychologia</i> , <b>1997</b> , 35, 519-32	3.2	323
230	Comparison of set-shifting ability in patients with chronic schizophrenia and frontal lobe damage. <i>Schizophrenia Research</i> , <b>1999</b> , 37, 251-70	3.6	315
229	Mapping the network for planning: a correlational PET activation study with the Tower of London task. <i>Brain</i> , <b>1999</b> , 122 ( Pt 10), 1973-87	11.2	311
228	Encoding strategies dissociate prefrontal activity from working memory demand. <i>Neuron</i> , <b>2003</b> , 37, 361-73.9	7.9	287
227	Dissociable contributions of the human amygdala and orbitofrontal cortex to incentive motivation and goal selection. <i>Journal of Neuroscience</i> , <b>2003</b> , 23, 9632-8	6.6	285
226	The role of the lateral frontal cortex in mnemonic processing: the contribution of functional neuroimaging. <i>Experimental Brain Research</i> , <b>2000</b> , 133, 33-43	2.3	274
225	Double dissociations of memory and executive functions in working memory tasks following frontal lobe excisions, temporal lobe excisions or amygdalo-hippocampectomy in man. <i>Brain</i> , <b>1996</b> , 119 ( Pt 5), 1597-615	11.2	263
224	Functional anatomy of visuomotor skill learning in human subjects examined with positron emission tomography. <i>European Journal of Neuroscience</i> , <b>1996</b> , 8, 637-48	3.5	262
223	Fractionating attentional control using event-related fMRI. <i>Cerebral Cortex</i> , <b>2006</b> , 16, 1679-89	5.1	258
222	Dopaminergic basis for deficits in working memory but not attentional set-shifting in Parkinson's disease. <i>Neuropsychologia</i> , <b>2005</b> , 43, 823-32	3.2	226

221	Redefining the functional organization of working memory processes within human lateral prefrontal cortex. <i>European Journal of Neuroscience</i> , <b>1999</b> , 11, 567-74	3.5	217
220	Fractionating human intelligence. <i>Neuron</i> , <b>2012</b> , 76, 1225-37	13.9	214
219	Striatal contributions to working memory: a functional magnetic resonance imaging study in humans. <i>European Journal of Neuroscience</i> , <b>2004</b> , 19, 755-60	3.5	213
218	Do vegetative patients retain aspects of language comprehension? Evidence from fMRI. <i>Brain</i> , <b>2007</b> , 130, 2494-507	11.2	203
217	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> , <b>2007</b> , 104, 16032-7	11.5	202
216	Cognitive planning in humans: neuropsychological, neuroanatomical and neuropharmacological perspectives. <i>Progress in Neurobiology</i> , <b>1997</b> , 53, 431-50	10.9	199
215	The role of the basal ganglia in learning and memory: neuropsychological studies. <i>Behavioural Brain Research</i> , <b>2009</b> , 199, 53-60	3.4	184
214	Dopamine-dependent frontostriatal planning deficits in early Parkinson's disease.. <i>Neuropsychology</i> , <b>1995</b> , 9, 126-140	3.8	183
213	Expectation and attention in hierarchical auditory prediction. <i>Journal of Neuroscience</i> , <b>2013</b> , 33, 11194-205	3.5	181
212	Into the groove: can rhythm influence Parkinson's disease?. <i>Neuroscience and Biobehavioral Reviews</i> , <b>2013</b> , 37, 2564-70	9	178
211	A role for the default mode network in the bases of disorders of consciousness. <i>Annals of Neurology</i> , <b>2012</b> , 72, 335-43	9.4	171
210	Diffusion weighted imaging distinguishes the vegetative state from the minimally conscious state. <i>NeuroImage</i> , <b>2011</b> , 54, 103-12	7.9	168
209	Functional neuroimaging of the vegetative state. <i>Nature Reviews Neuroscience</i> , <b>2008</b> , 9, 235-43	13.5	162
208	Catechol O-methyltransferase Val158Met genotype influences frontoparietal activity during planning in patients with Parkinson's disease. <i>Journal of Neuroscience</i> , <b>2007</b> , 27, 4832-8	6.6	159
207	Using executive heterogeneity to explore the nature of working memory deficits in Parkinson's disease. <i>Neuropsychologia</i> , <b>2003</b> , 41, 645-54	3.2	151
206	Psychiatric, neurological and medical aspects of misidentification syndromes: a review of 260 cases. <i>Psychological Medicine</i> , <b>1991</b> , 21, 905-10	6.9	151
205	The vegetative state. <i>BMJ, The</i> , <b>2010</b> , 341, c3765	5.9	150
204	Baseline and longitudinal grey matter changes in newly diagnosed Parkinson's disease: ICICLE-PD study. <i>Brain</i> , <b>2015</b> , 138, 2974-86	11.2	146

203	Attentional control in Parkinson's disease is dependent on COMT val 158 met genotype. <i>Brain</i> , <b>2008</b> , 131, 397-408	11.2	145
202	Neural contributions to the motivational control of appetite in humans. <i>European Journal of Neuroscience</i> , <b>2004</b> , 20, 1411-8	3.5	144
201	Are There Levels of Consciousness?. <i>Trends in Cognitive Sciences</i> , <b>2016</b> , 20, 405-413	14	144
200	Detecting awareness after severe brain injury. <i>Nature Reviews Neuroscience</i> , <b>2013</b> , 14, 801-9	13.5	129
199	Enhancing the sensitivity of a sustained attention task to frontal damage: convergent clinical and functional imaging evidence. <i>Neurocase</i> , <b>2003</b> , 9, 340-9	0.8	127
198	A specific role for the right parahippocampal gyrus in the retrieval of object-location: a positron emission tomography study. <i>Journal of Cognitive Neuroscience</i> , <b>1996</b> , 8, 588-602	3.1	124
197	Planning and problem solving: from neuropsychology to functional neuroimaging. <i>Journal of Physiology (Paris)</i> , <b>2006</b> , 99, 308-17		123
196	Optimized brain extraction for pathological brains (optiBET). <i>PLoS ONE</i> , <b>2014</b> , 9, e115551	3.7	116
195	Spectral signatures of reorganised brain networks in disorders of consciousness. <i>PLoS Computational Biology</i> , <b>2014</b> , 10, e1003887	5	114
194	Genetic impact on cognition and brain function in newly diagnosed Parkinson's disease: ICICLE-PD study. <i>Brain</i> , <b>2014</b> , 137, 2743-58	11.2	109
193	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> , <b>2014</b> , 111, 14277-82	11.5	104
192	Dehydration affects brain structure and function in healthy adolescents. <i>Human Brain Mapping</i> , <b>2011</b> , 32, 71-9	5.9	104
191	Prefrontal cortical involvement in verbal encoding strategies. <i>European Journal of Neuroscience</i> , <b>2004</b> , 19, 3365-70	3.5	104
190	Distinct roles for lateral and medial anterior prefrontal cortex in contextual recollection. <i>Journal of Neurophysiology</i> , <b>2005</b> , 94, 813-20	3.2	102
189	Activity in ventrolateral and mid-dorsolateral prefrontal cortex during nonspatial visual working memory processing: evidence from functional magnetic resonance imaging. <i>NeuroImage</i> , <b>2000</b> , 11, 392-9	7.9	102
188	Anterior prefrontal cortex and the recollection of contextual information. <i>Neuropsychologia</i> , <b>2005</b> , 43, 1774-83	3.2	101
187	Thalamic and extrathalamic mechanisms of consciousness after severe brain injury. <i>Annals of Neurology</i> , <b>2015</b> , 78, 68-76	9.4	98
186	Impaired preference conditioning after anterior temporal lobe resection in humans. <i>Journal of Neuroscience</i> , <b>2000</b> , 20, 2649-56	6.6	98

185	Residual auditory function in persistent vegetative state: a combined PET and fMRI study. <i>Neuropsychological Rehabilitation</i> , <b>2005</b> , 15, 290-306	3.1	94
184	Selective tuning of the right inferior frontal gyrus during target detection. <i>Cognitive, Affective and Behavioral Neuroscience</i> , <b>2009</b> , 9, 103-12	3.5	87
183	Making every word count for nonresponsive patients. <i>JAMA Neurology</i> , <b>2013</b> , 70, 1235-41	17.2	83
182	The functional organization of the lateral frontal cortex: conjecture or conjuncture in the electrophysiology literature?. <i>Trends in Cognitive Sciences</i> , <b>1998</b> , 2, 46-53	14	83
181	Using functional magnetic resonance imaging to detect covert awareness in the vegetative state. <i>Archives of Neurology</i> , <b>2007</b> , 64, 1098-102		83
180	Cognitive tasks for driving a brain-computer interfacing system: a pilot study. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , <b>2004</b> , 12, 48-54	4.8	83
179	Brain-computer interfaces for communication with nonresponsive patients. <i>Annals of Neurology</i> , <b>2012</b> , 72, 312-23	9.4	80
178	Detecting residual cognitive function in persistent vegetative state. <i>Neurocase</i> , <b>2002</b> , 8, 394-403	0.8	80
177	Thalamo-frontal connectivity mediates top-down cognitive functions in disorders of consciousness. <i>Neurology</i> , <b>2015</b> , 84, 167-73	6.5	76
176	A common prefrontal-parietal network for mnemonic and mathematical recoding strategies within working memory. <i>Cerebral Cortex</i> , <b>2007</b> , 17, 778-86	5.1	75
175	Consciousness-specific dynamic interactions of brain integration and functional diversity. <i>Nature Communications</i> , <b>2019</b> , 10, 4616	17.4	72
174	Detecting awareness in the vegetative state. <i>Annals of the New York Academy of Sciences</i> , <b>2008</b> , 1129, 130-8	6.5	72
173	Detecting awareness in the vegetative state: electroencephalographic evidence for attempted movements to command. <i>PLoS ONE</i> , <b>2012</b> , 7, e49933	3.7	72
172	Selective tuning of the blood oxygenation level-dependent response during simple target detection dissociates human frontoparietal subregions. <i>Journal of Neuroscience</i> , <b>2007</b> , 27, 6219-23	6.6	70
171	Detecting consciousness: a unique role for neuroimaging. <i>Annual Review of Psychology</i> , <b>2013</b> , 64, 109-33	26.1	69
170	Lateral prefrontal cortex subregions make dissociable contributions during fluid reasoning. <i>Cerebral Cortex</i> , <b>2011</b> , 21, 1-10	5.1	69
169	Why clowns taste funny: the relationship between humor and semantic ambiguity. <i>Journal of Neuroscience</i> , <b>2011</b> , 31, 9665-71	6.6	67
168	Frontoparietal activity with minimal decision and control. <i>Journal of Neuroscience</i> , <b>2006</b> , 26, 9805-9	6.6	65

167	The strategic control of gaze direction in the Tower-of-London task. <i>Journal of Cognitive Neuroscience</i> , <b>2000</b> , 12, 894-907	3.1	65
166	Hypoconnectivity and hyperfrontality in retired American football players. <i>Scientific Reports</i> , <b>2013</b> , 3, 2972	4.9	64
165	How should functional imaging of patients with disorders of consciousness contribute to their clinical rehabilitation needs?. <i>Current Opinion in Neurology</i> , <b>2006</b> , 19, 520-7	7.1	64
164	Brain-computer interfacing in disorders of consciousness. <i>Brain Injury</i> , <b>2012</b> , 26, 1510-22	2.1	62
163	Dissociable endogenous and exogenous attention in disorders of consciousness. <i>NeuroImage: Clinical</i> , <b>2013</b> , 3, 450-61	5.3	60
162	Dissociable roles for lateral orbitofrontal cortex and lateral prefrontal cortex during preference driven reversal learning. <i>NeuroImage</i> , <b>2012</b> , 59, 4102-12	7.9	59
161	The brain's silent messenger: using selective attention to decode human thought for brain-based communication. <i>Journal of Neuroscience</i> , <b>2013</b> , 33, 9385-93	6.6	58
160	Frontal lobe involvement in spatial span: converging studies of normal and impaired function. <i>Neuropsychologia</i> , <b>2006</b> , 44, 229-37	3.2	58
159	Neuroimaging and the vegetative state: resolving the behavioral assessment dilemma?. <i>Annals of the New York Academy of Sciences</i> , <b>2009</b> , 1157, 81-9	6.5	56
158	Functional neuroanatomy of successful paired associate learning in Alzheimer's disease. <i>American Journal of Psychiatry</i> , <b>2005</b> , 162, 2049-60	11.9	55
157	A Thalamocortical Mechanism for the Absence of Overt Motor Behavior in Covertly Aware Patients. <i>JAMA Neurology</i> , <b>2015</b> , 72, 1442-50	17.2	54
156	Visual cognition in disorders of consciousness: from V1 to top-down attention. <i>Human Brain Mapping</i> , <b>2013</b> , 34, 1245-53	5.9	53
155	Risk, diagnostic error, and the clinical science of consciousness. <i>NeuroImage: Clinical</i> , <b>2015</b> , 7, 588-97	5.3	52
154	Executive functions in the absence of behavior: functional imaging of the minimally conscious state. <i>Progress in Brain Research</i> , <b>2009</b> , 177, 249-60	2.9	50
153	Reforming the taxonomy in disorders of consciousness. <i>Annals of Neurology</i> , <b>2017</b> , 82, 866-872	9.4	48
152	The role of learned irrelevance in attentional set-shifting impairments in Parkinson's disease. <i>Neuropsychology</i> , <b>2006</b> , 20, 578-88	3.8	48
151	Relationship between the anterior forebrain mesocircuit and the default mode network in the structural bases of disorders of consciousness. <i>NeuroImage: Clinical</i> , <b>2016</b> , 10, 27-35	5.3	47
150	Actigraphy assessments of circadian sleep-wake cycles in the Vegetative and Minimally Conscious States. <i>BMC Medicine</i> , <b>2013</b> , 11, 18	11.4	47

149	Disentangling disorders of consciousness: Insights from diffusion tensor imaging and machine learning. <i>Human Brain Mapping</i> , <b>2017</b> , 38, 431-443	5.9	47
148	A new era of coma and consciousness science. <i>Progress in Brain Research</i> , <b>2009</b> , 177, 399-411	2.9	44
147	Multiple tasks and neuroimaging modalities increase the likelihood of detecting covert awareness in patients with disorders of consciousness. <i>Frontiers in Human Neuroscience</i> , <b>2014</b> , 8, 950	3.3	43
146	The reliability of the N400 in single subjects: implications for patients with disorders of consciousness. <i>NeuroImage: Clinical</i> , <b>2014</b> , 4, 788-99	5.3	41
145	Striatum in stimulus-response learning via feedback and in decision making. <i>NeuroImage</i> , <b>2014</b> , 101, 448-507	5.7	41
144	Anesthesia and neuroimaging: investigating the neural correlates of unconsciousness. <i>Trends in Cognitive Sciences</i> , <b>2015</b> , 19, 100-7	14	40
143	Somatosensory attention identifies both overt and covert awareness in disorders of consciousness. <i>Annals of Neurology</i> , <b>2016</b> , 80, 412-23	9.4	40
142	HERA today, gone tomorrow?. <i>Trends in Cognitive Sciences</i> , <b>2003</b> , 7, 383-384	14	40
141	A hierarchy of event-related potential markers of auditory processing in disorders of consciousness. <i>NeuroImage: Clinical</i> , <b>2016</b> , 12, 359-71	5.3	40
140	Bilingualism Affords No General Cognitive Advantages: A Population Study of Executive Function in 11,000 People. <i>Psychological Science</i> , <b>2020</b> , 31, 548-567	7.9	40
139	Assessing Decision-Making Capacity in the Behaviorally Nonresponsive Patient With Residual Covert Awareness. <i>AJOB Neuroscience</i> , <b>2013</b> , 4, 3-14	0.8	39
138	Preference judgements involve a network of structures within frontal, cingulate and insula cortices. <i>European Journal of Neuroscience</i> , <b>2009</b> , 29, 1047-55	3.5	39
137	Perceptual and semantic components of memory for objects and faces: a pet study. <i>Journal of Cognitive Neuroscience</i> , <b>2001</b> , 13, 430-43	3.1	39
136	Asymmetric frontal activation during episodic memory: the effects of stimulus type on encoding and retrieval. <i>Neuropsychologia</i> , <b>2000</b> , 38, 677-92	3.2	39
135	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> , <b>2014</b> , 9, e95082	3.7	38
134	Dissociable effects of self-reported daily sleep duration on high-level cognitive abilities. <i>Sleep</i> , <b>2018</b> , 41,	1.1	36
133	Detecting and interpreting conscious experiences in behaviorally non-responsive patients. <i>NeuroImage</i> , <b>2017</b> , 145, 304-313	7.9	35
132	Neural correlates of appetite and hunger-related evaluative judgments. <i>PLoS ONE</i> , <b>2009</b> , 4, e6581	3.7	35

131	Propofol-Induced Frontal Cortex Disconnection: A Study of Resting-State Networks, Total Brain Connectivity, and Mean BOLD Signal Oscillation Frequencies. <i>Brain Connectivity</i> , <b>2016</b> , 6, 225-37	2.7	34
130	Consciousness revealed: new insights into the vegetative and minimally conscious states. <i>Current Opinion in Neurology</i> , <b>2010</b> , 23, 656-60	7.1	34
129	How does reward expectation influence cognition in the human brain?. <i>Journal of Cognitive Neuroscience</i> , <b>2008</b> , 20, 1980-92	3.1	34
128	Differential effects of Parkinson's disease and dopamine replacement on memory encoding and retrieval. <i>PLoS ONE</i> , <b>2013</b> , 8, e74044	3.7	33
127	How to become an expert: A new perspective on the role of sleep in the mastery of procedural skills. <i>Neurobiology of Learning and Memory</i> , <b>2015</b> , 125, 236-48	3.1	32
126	Inefficiency in self-organized attentional switching in the normal aging population is associated with decreased activity in the ventrolateral prefrontal cortex. <i>Journal of Cognitive Neuroscience</i> , <b>2008</b> , 20, 1670-86	3.1	32
125	Improving reverse neuroimaging inference: cognitive domain versus cognitive complexity. <i>Trends in Cognitive Sciences</i> , <b>2006</b> , 10, 352-3	14	32
124	Single-session communication with a locked-in patient by functional near-infrared spectroscopy. <i>Neurophotonics</i> , <b>2017</b> , 4, 040501	3.9	32
123	Network mechanisms of intentional learning. <i>NeuroImage</i> , <b>2016</b> , 127, 123-134	7.9	31
122	Longitudinal whole-brain atrophy and ventricular enlargement in nondemented Parkinson's disease. <i>Neurobiology of Aging</i> , <b>2017</b> , 55, 78-90	5.6	30
121	Association between MAPT haplotype and memory function in patients with Parkinson's disease and healthy aging individuals. <i>Neurobiology of Aging</i> , <b>2015</b> , 36, 1519-28	5.6	30
120	Functional MRI in disorders of consciousness: advantages and limitations. <i>Current Opinion in Neurology</i> , <b>2007</b> , 20, 632-7	7.1	30
119	Lies, damned lies and diagnoses: estimating the clinical utility of assessments of covert awareness in the vegetative state. <i>Brain Injury</i> , <b>2014</b> , 28, 1197-201	2.1	29
118	Reanalysis of "Bedside detection of awareness in the vegetative state: a cohort study" - Authors' reply. <i>Lancet, The</i> , <b>2013</b> , 381, 291-2	4.0	29
117	Disorders of consciousness. <i>Annals of the New York Academy of Sciences</i> , <b>2008</b> , 1124, 225-38	6.5	29
116	Episodic Memory Meets Working Memory in the Frontal Lobe: Functional Neuroimaging Studies of Encoding and Retrieval. <i>Critical Reviews in Neurobiology</i> , <b>2000</b> , 14, 33		29
115	The importance of sustained attention in early Alzheimer's disease. <i>International Journal of Geriatric Psychiatry</i> , <b>2017</b> , 32, 860-867	3.9	28
114	Dissociable contributions of the mid-ventrolateral frontal cortex and the medial temporal lobe system to human memory. <i>NeuroImage</i> , <b>2006</b> , 31, 1790-801	7.9	28

113	The target selective neural response--similarity, ambiguity, and learning effects. <i>PLoS ONE</i> , <b>2008</b> , 3, e25207	3.7	28
112	Opportunities and challenges for a maturing science of consciousness. <i>Nature Human Behaviour</i> , <b>2019</b> , 3, 104-107	12.8	28
111	Working memory: imaging the magic number four. <i>Current Biology</i> , <b>2004</b> , 14, R573-4	6.3	25
110	Functional diversity of brain networks supports consciousness and verbal intelligence. <i>Scientific Reports</i> , <b>2018</b> , 8, 13259	4.9	25
109	Longitudinal diffusion tensor imaging changes in early Parkinson's disease: ICICLE-PD study. <i>Journal of Neurology</i> , <b>2018</b> , 265, 1528-1539	5.5	24
108	Can time-resolved NIRS provide the sensitivity to detect brain activity during motor imagery consistently?. <i>Biomedical Optics Express</i> , <b>2017</b> , 8, 2162-2172	3.5	24
107	Parkinson's disease and healthy aging: independent and interacting effects on action selection. <i>Human Brain Mapping</i> , <b>2010</b> , 31, 1886-99	5.9	24
106	Sleep Spindles and Intellectual Ability: Epiphenomenon or Directly Related?. <i>Journal of Cognitive Neuroscience</i> , <b>2017</b> , 29, 167-182	3.1	23
105	Ethical considerations in functional magnetic resonance imaging research in acutely comatose patients. <i>Brain</i> , <b>2016</b> , 139, 292-9	11.2	22
104	An Ethics of Welfare for Patients Diagnosed as Vegetative With Covert Awareness. <i>AJOB Neuroscience</i> , <b>2015</b> , 6, 31-41	0.8	20
103	Points in Mental Space: an Interdisciplinary Study of Imagery in Movement Creation. <i>Dance Research</i> , <b>2011</b> , 29, 404-432	0.1	20
102	Thirty-Five Years of Computerized Cognitive Assessment of Aging-Where Are We Now?. <i>Diagnostics</i> , <b>2019</b> , 9,	3.8	19
101	Examining dorsal striatum in cognitive effort using Parkinson's disease and fMRI. <i>Annals of Clinical and Translational Neurology</i> , <b>2014</b> , 1, 390-400	5.3	19
100	Diffusion tensor imaging and white matter abnormalities in patients with disorders of consciousness. <i>Frontiers in Human Neuroscience</i> , <b>2014</b> , 8, 1028	3.3	19
99	Covert narrative capacity: Mental life in patients thought to lack consciousness. <i>Annals of Clinical and Translational Neurology</i> , <b>2017</b> , 4, 61-70	5.3	18
98	Assessing residual reasoning ability in overtly non-communicative patients using fMRI. <i>NeuroImage: Clinical</i> , <b>2012</b> , 2, 174-83	5.3	18
97	Normal aging and Parkinson's disease are associated with the functional decline of distinct frontal-striatal circuits. <i>Cortex</i> , <b>2017</b> , 93, 178-192	3.8	17
96	Acknowledging awareness: informing families of individual research results for patients in the vegetative state. <i>Journal of Medical Ethics</i> , <b>2015</b> , 41, 534-8	2.5	17

95	Complexity and familiarity enhance single-trial detectability of imagined movements with electroencephalography. <i>Clinical Neurophysiology</i> , <b>2014</b> , 125, 1556-67	4.3	17
94	Neural correlates of affective influence on choice. <i>Brain and Cognition</i> , <b>2010</b> , 72, 282-8	2.7	17
93	Assessing Time-Resolved fNIRS for Brain-Computer Interface Applications of Mental Communication. <i>Frontiers in Neuroscience</i> , <b>2020</b> , 14, 105	5.1	16
92	The engagement of mid-ventrolateral prefrontal cortex and posterior brain regions in intentional cognitive activity. <i>Human Brain Mapping</i> , <b>2008</b> , 29, 107-19	5.9	16
91	Targeted training: Converging evidence against the transferable benefits of online brain training on cognitive function. <i>Neuropsychologia</i> , <b>2018</b> , 117, 541-550	3.2	15
90	Tuning in to the temporal dynamics of brain activation using functional magnetic resonance imaging (fMRI). <i>Trends in Cognitive Sciences</i> , <b>1997</b> , 1, 123-5	14	15
89	Dissociating aspects of verbal working memory within the human frontal lobe: Further evidence for a process-specific model of lateral frontal organization. <i>Cognitive, Affective and Behavioral Neuroscience</i> , <b>2000</b> , 28, 146-155		15
88	Group-based exercise and cognitive-physical training in older adults with self-reported cognitive complaints: The Multiple-Modality, Mind-Motor (M4) study protocol. <i>BMC Geriatrics</i> , <b>2016</b> , 16, 17	4.1	15
87	The Search for Consciousness. <i>Neuron</i> , <b>2019</b> , 102, 526-528	13.9	14
86	Learning to be inflexible: Enhanced attentional biases in Parkinson's disease. <i>Cortex</i> , <b>2016</b> , 82, 24-34	3.8	14
85	Brain Activation Time-Locked to Sleep Spindles Associated With Human Cognitive Abilities. <i>Frontiers in Neuroscience</i> , <b>2019</b> , 13, 46	5.1	13
84	Using functional magnetic resonance imaging and electroencephalography to detect consciousness after severe brain injury. <i>Handbook of Clinical Neurology / Edited By P J Vinken and G W Bruyn</i> , <b>2015</b> , 127, 277-93	3	13
83	A P300-based cognitive assessment battery. <i>Brain and Behavior</i> , <b>2015</b> , 5, e00336	3.4	13
82	Ethics of neuroimaging after serious brain injury. <i>BMC Medical Ethics</i> , <b>2014</b> , 15, 41	2.9	13
81	Assessing Capacity in the Elderly: Comparing the MoCA with a Novel Computerized Battery of Executive Function. <i>Dementia and Geriatric Cognitive Disorders Extra</i> , <b>2017</b> , 7, 249-256	2.5	13
80	Acquiring a cognitive skill with a new repeating version of the Tower of London task. <i>Canadian Journal of Experimental Psychology</i> , <b>2004</b> , 58, 272-88	0.8	13
79	Behavior in the Brain. <i>Journal of Psychophysiology</i> , <b>2010</b> , 24, 76-82	1	13
78	The neural basis of external responsiveness in prolonged disorders of consciousness. <i>NeuroImage: Clinical</i> , <b>2019</b> , 22, 101791	5.3	12

77	A Synergistic Workspace for Human Consciousness Revealed by Integrated Information Decomposition		12
76	Feasibility of a web-based neurocognitive battery for assessing cognitive function in critical illness survivors. <i>PLoS ONE</i> , <b>2019</b> , 14, e0215203	3.7	11
75	Evidence for asymmetric frontal-lobe involvement in episodic memory from functional magnetic resonance imaging and patients with unilateral frontal-lobe excisions. <i>Neuropsychologia</i> , <b>2002</b> , 40, 2420-37	3.7	11
74	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> , <b>2016</b> , 22, 620-30	3.1	11
73	Cognitive changes following multiple-modality exercise and mind-motor training in older adults with subjective cognitive complaints: The M4 study. <i>PLoS ONE</i> , <b>2018</b> , 13, e0196356	3.7	11
72	Therapies to Restore Consciousness in Patients with Severe Brain Injuries: A Gap Analysis and Future Directions. <i>Neurocritical Care</i> , <b>2021</b> , 35, 68-85	3.3	11
71	A Novel Approach to Dream Content Analysis Reveals Links Between Learning-Related Dream Incorporation and Cognitive Abilities. <i>Frontiers in Psychology</i> , <b>2018</b> , 9, 1398	3.4	10
70	Preference formation and working memory in Parkinson's disease and normal ageing. <i>Neuropsychologia</i> , <b>2002</b> , 40, 317-26	3.2	10
69	Using fMRI to investigate the potential cause of inverse oxygenation reported in fNIRS studies of motor imagery. <i>Neuroscience Letters</i> , <b>2020</b> , 714, 134607	3.3	10
68	Memory Function and Brain Functional Connectivity Adaptations Following Multiple-Modality Exercise and Mind-Motor Training in Older Adults at Risk of Dementia: An Exploratory Sub-Study. <i>Frontiers in Aging Neuroscience</i> , <b>2020</b> , 12, 22	5.3	9
67	Do Patients Thought to Lack Consciousness Retain the Capacity for Internal as Well as External Awareness?. <i>Frontiers in Neurology</i> , <b>2018</b> , 9, 492	4.1	9
66	The dissociation between command following and communication in disorders of consciousness: an fMRI study in healthy subjects. <i>Frontiers in Human Neuroscience</i> , <b>2015</b> , 9, 493	3.3	9
65	The role of executive deficits in memory disorders in neurodegenerative disease <b>1998</b> , 157-171		9
64	An annotated summary and translation of 'On the self-awareness of focal brain diseases by the patient in cortical blindness and cortical deafness' by Gabriel Anton (1899). <i>Cognitive Neuropsychology</i> , <b>1993</b> , 10, 263-272	2.3	9
63	Towards the assessment of quality of life in patients with disorders of consciousness. <i>Quality of Life Research</i> , <b>2020</b> , 29, 1217-1227	3.7	9
62	Mapping preserved real-world cognition in severely brain-injured patients. <i>Frontiers in Bioscience - Landmark</i> , <b>2017</b> , 22, 815-823	2.8	8
61	Using facial electromyography to detect preserved emotional processing in disorders of consciousness: A proof-of-principle study. <i>Clinical Neurophysiology</i> , <b>2016</b> , 127, 3000-3006	4.3	8
60	Toward a science of brain death. <i>American Journal of Bioethics</i> , <b>2014</b> , 14, 29-31	1.1	8

59	A Principled Argument, But Not a Practical One. <i>AJOB Neuroscience</i> , <b>2013</b> , 4, 52-53	0.8	7
58	Cognitive training: neural correlates of expert skills. <i>Current Biology</i> , <b>2007</b> , 17, R95-7	6.3	7
57	24-h polysomnographic recordings and electrophysiological spectral analyses from a cohort of patients with chronic disorders of consciousness. <i>Journal of Neurology</i> , <b>2020</b> , 267, 3650-3663	5.5	7
56	Ethical and Clinical Considerations at the Intersection of Functional Neuroimaging and Disorders of Consciousness. <i>Cambridge Quarterly of Healthcare Ethics</i> , <b>2016</b> , 25, 613-22	0.9	7
55	Dorsal striatum mediates deliberate decision making, not late-stage, stimulus-response learning. <i>Human Brain Mapping</i> , <b>2017</b> , 38, 6133-6156	5.9	6
54	Individualized assessment of residual cognition in patients with disorders of consciousness. <i>NeuroImage: Clinical</i> , <b>2020</b> , 28, 102472	5.3	6
53	Does sleep facilitate the consolidation of allocentric or egocentric representations of implicitly learned visual-motor sequence learning?. <i>Learning and Memory</i> , <b>2018</b> , 25, 67-77	2.8	6
52	Assessing the feasibility of time-resolved fNIRS to detect brain activity during motor imagery <b>2016</b> ,		6
51	Canadian perspectives on the clinical actionability of neuroimaging in disorders of consciousness. <i>Canadian Journal of Neurological Sciences</i> , <b>2015</b> , 42, 96-105	1	6
50	Neuroimaging in disorders of consciousness: contributions to diagnosis and prognosis. <i>Future Neurology</i> , <b>2011</b> , 6, 291-299	1.5	6
49	Sleep Spindle-dependent Functional Connectivity Correlates with Cognitive Abilities. <i>Journal of Cognitive Neuroscience</i> , <b>2020</b> , 32, 446-466	3.1	6
48	The role of executive processes in working memory deficits in Parkinson's Disease. <i>Polish Psychological Bulletin</i> , <b>2016</b> , 47, 123-130		6
47	Sleep-dependent motor sequence memory consolidation in individuals with periodic limb movements. <i>Sleep Medicine</i> , <b>2017</b> , 40, 23-32	4.6	5
46	Consciousness and the Dimensionality of DOC Patients via the Generalized Ising Model. <i>Journal of Clinical Medicine</i> , <b>2020</b> , 9,	5.1	5
45	Minimizing the Harm of Accidental Awareness Under General Anesthesia: New Perspectives From Patients Misdiagnosed as Being in a Vegetative State. <i>Anesthesia and Analgesia</i> , <b>2018</b> , 126, 1073-1076	3.9	5
44	Spatial structure normalises working memory performance in Parkinson's disease. <i>Cortex</i> , <b>2017</b> , 96, 73-82	3.8	5
43	The Assessment of Conscious Awareness in the Vegetative State <b>2009</b> , 163-172		5
42	Working memory: linking capacity with selectivity. <i>Current Biology</i> , <b>2006</b> , 16, R136-8	6.3	5

41	Response to Fazekas and Overgaard: Degrees and Levels. <i>Trends in Cognitive Sciences</i> , <b>2016</b> , 20, 716-717	14	5
40	Bedside detection of awareness in the vegetative state [Authors' reply]. <i>Lancet, The</i> , <b>2012</b> , 379, 1702	40	4
39	Functional neuroimaging of disorders of consciousness. <i>International Anesthesiology Clinics</i> , <b>2008</b> , 46, 147-57	0.6	4
38	Brain-Computer Interfaces for Assessment and Communication in Disorders of Consciousness. <i>Advances in Bioinformatics and Biomedical Engineering Book Series</i> , 181-214	0.4	4
37	Prolonged disorders of consciousness: a critical evaluation of the new UK guidelines. <i>Brain</i> , <b>2021</b> , 144, 1655-1660	11.2	4
36	Improving diagnosis and prognosis in disorders of consciousness. <i>Brain</i> , <b>2020</b> , 143, 1050-1053	11.2	4
35	The Potential Role of fNIRS in Evaluating Levels of Consciousness. <i>Frontiers in Human Neuroscience</i> , <b>2021</b> , 15, 703405	3.3	4
34	Brief response to Ashton and colleagues regarding Fractionating Human Intelligence. <i>Personality and Individual Differences</i> , <b>2014</b> , 60, 16-17	3.3	3
33	Response to: Higher-order g versus blended variable models of mental ability: Comment on Hampshire, Highfield, Parkin, and Owen (2012) [Personality and Individual Differences, 2014, 60, 8-12	3.3	3
32	RE: Comment about Fractionating Human Intelligence [Non-existent flaws in the original article and their relation to limitations of the P-FIT model. <i>Intelligence</i> , <b>2014</b> , 46, 333-340	3	3
31	The role of the lateral frontal cortex in mnemonic processing: the contribution of functional neuroimaging <b>2000</b> , 33-43		3
30	Confronting the grey zone after severe brain injury. <i>Emerging Topics in Life Sciences</i> , <b>2019</b> , 3, 707-711	3.5	3
29	Experiences of family of individuals in a locked in, minimally conscious state, or vegetative state with the health care system. <i>Brain Injury</i> , <b>2021</b> , 35, 8-14	2.1	3
28	Informed consent for functional MRI research on comatose patients following severe brain injury: balancing the social benefits of research against patient autonomy. <i>Journal of Medical Ethics</i> , <b>2019</b> , 45, 299-303	2.5	3
27	Eye Movements in the "Morris Maze" Spatial Working Memory Task Reveal Deficits in Strategic Planning. <i>Journal of Cognitive Neuroscience</i> , <b>2019</b> , 31, 497-509	3.1	3
26	Learned Irrelevance Revisited: Pathology-Based Individual Differences, Normal Variation and Neural Correlates. <i>Plenum Series on Human Exceptionality</i> , <b>2010</b> , 127-144		3
25	Response to 'Minimally conscious state or cortically mediated state?'. <i>Brain</i> , <b>2018</b> , 141, e26	11.2	2
24	Operationalizing Neuroimaging for Disorders of Consciousness: The Canadian Context. <i>Canadian Journal of Neurological Sciences</i> , <b>2016</b> , 43, 578-80	1	2

23	The Assessment of Conscious Awareness in the Vegetative State <b>2016</b> , 155-166		2
22	Using neuroimaging to uncover awareness in brain-injured and anesthetized patients. <i>Frontiers in Bioscience - Scholar</i> , <b>2018</b> , 10, 337-349	2.4	2
21	Cortical Function in Acute Severe Traumatic Brain Injury and at Recovery: A Longitudinal fMRI Case Study. <i>Brain Sciences</i> , <b>2020</b> , 10,	3.4	2
20	The Benefits of High-Intensity Interval Training on Cognition and Blood Pressure in Older Adults With Hypertension and Subjective Cognitive Decline: Results From the Heart & Mind Study. <i>Frontiers in Aging Neuroscience</i> , <b>2021</b> , 13, 643809	5.3	2
19	Disruptions in Effective Connectivity within and between Default Mode Network and Anterior Forebrain Mesocircuit in Prolonged Disorders of Consciousness. <i>Brain Sciences</i> , <b>2021</b> , 11,	3.4	2
18	Whole-brain modelling identifies distinct but convergent paths to unconsciousness in anaesthesia and disorders of consciousness.. <i>Communications Biology</i> , <b>2022</b> , 5, 384	6.7	2
17	Concussion-related deficits in the general population predict impairments in varsity footballers. <i>Journal of Neurology</i> , <b>2020</b> , 267, 1970-1979	5.5	1
16	Functional neuroimaging after severe anoxic brain injury in children may reveal preserved, yet covert, cognitive function. <i>Human Brain Mapping</i> , <b>2017</b> , 38, 4832-4833	5.9	1
15	Original article Temperamental variation in learned irrelevance in humans. <i>Current Issues in Personality Psychology</i> , <b>2015</b> , 2, 94-104	0.7	1
14	When thoughts become actions: functional neuroimaging in the vegetative state. <i>Future Neurology</i> , <b>2006</b> , 1, 693-695	1.5	1
13	Unlocking the Voices of Patients with Severe Brain Injury. <i>Neuroethics</i> , <b>2022</b> , 15, 1	1.2	1
12	Cognition across the Lifespan: Investigating Age, Sex, and Other Sociodemographic Influences. <i>Behavioral Sciences (Basel, Switzerland)</i> , <b>2021</b> , 11,	2.3	1
11	Caregiver reactions to neuroimaging evidence of covert consciousness in patients with severe brain injury: a qualitative interview study. <i>BMC Medical Ethics</i> , <b>2021</b> , 22, 105	2.9	1
10	Improving Diagnosis and Prognosis in Acute Severe Brain Injury: A Multimodal Imaging Protocol.. <i>Frontiers in Neurology</i> , <b>2021</b> , 12, 757219	4.1	1
9	Protocol for the Prognostication of Consciousness Recovery Following a Brain Injury. <i>Frontiers in Human Neuroscience</i> , <b>2020</b> , 14, 582125	3.3	0
8	Understanding Alzheimer's disease as a disorder of consciousness. <i>Alzheimer's and Dementia: Translational Research and Clinical Interventions</i> , <b>2021</b> , 7, e12203	6	0
7	The relationship between cognitive ability and BOLD activation across sleep-wake states. <i>Brain Imaging and Behavior</i> , <b>2021</b> , 1	4.1	0
6	While you were sleeping: Evidence for high-level executive processing of an auditory narrative during sleep.. <i>Consciousness and Cognition</i> , <b>2022</b> , 100, 103306	2.6	0

- 5 Identifying Covert Cognition in Disorders of Consciousness **2018**, 77-96
- 4 Decoding Thoughts in Disorders of Consciousness **2016**, 67-80
- 3 Exploring electroencephalography with a model inspired by quantum mechanics. *Scientific Reports*, **2021**, 11, 19771 4-9
- 2 Evaluating the Potential for Recovery of Consciousness in the Intensive Care Unit. *CONTINUUM Lifelong Learning in Neurology*, **2015**, 21, 1397-410 3
- 1 When Thoughts Become Actions: Imaging Disorders of Consciousness. *Research and Perspectives in Neurosciences*, **2011**, 99-108