

# John Duncan

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

118  
papers

27,953  
citations

54  
h-index

161  
g-index

161  
ext. papers

31,431  
ext. citations

7.9  
avg, IF

7.51  
L-index

#	Paper	IF	Citations
118	Fluid intelligence and naturalistic task impairments after focal brain lesions. <i>Cortex</i> , <b>2021</b> , 146, 106-115	3.8	0
117	Viewing ambiguous social interactions increases functional connectivity between frontal and temporal nodes of the social brain. <i>Journal of Neuroscience</i> , <b>2021</b> ,	6.6	3
116	Intraoperative mapping of executive function using electrocorticography for patients with low-grade gliomas. <i>Acta Neurochirurgica</i> , <b>2021</b> , 163, 1299-1309	3	9
115	Roles of the Default Mode and Multiple-Demand Networks in Naturalistic versus Symbolic Decisions. <i>Journal of Neuroscience</i> , <b>2021</b> , 41, 2214-2228	6.6	4
114	Precise Topology of Adjacent Domain-General and Sensory-Biased Regions in the Human Brain. <i>Cerebral Cortex</i> , <b>2021</b> ,	5.1	4
113	Distinguishing between parallel and serial processing in visual attention from neurobiological data. <i>Royal Society Open Science</i> , <b>2020</b> , 7, 191553	3.3	1
112	The Functional Convergence and Heterogeneity of Social, Episodic, and Self-Referential Thought in the Default Mode Network. <i>Cerebral Cortex</i> , <b>2020</b> , 30, 5915-5929	5.1	13
111	A Domain-General Cognitive Core Defined in Multimodally Parcellated Human Cortex. <i>Cerebral Cortex</i> , <b>2020</b> , 30, 4361-4380	5.1	82
110	The relationship between executive functions and fluid intelligence in multiple sclerosis. <i>PLoS ONE</i> , <b>2020</b> , 15, e0231868	3.7	5
109	Focused Representation of Successive Task Episodes in Frontal and Parietal Cortex. <i>Cerebral Cortex</i> , <b>2020</b> , 30, 1779-1796	5.1	3
108	Integrated Intelligence from Distributed Brain Activity. <i>Trends in Cognitive Sciences</i> , <b>2020</b> , 24, 838-852	14	23
107	Hierarchical Representation of Multistep Tasks in Multiple-Demand and Default Mode Networks. <i>Journal of Neuroscience</i> , <b>2020</b> , 40, 7724-7738	6.6	15
106	Dissociable effects of attention vs working memory training on cognitive performance and everyday functioning following fronto-parietal strokes. <i>Neuropsychological Rehabilitation</i> , <b>2020</b> , 30, 1092-1114 <sup>8</sup>	3.1	8
105	The relationship between executive functions and fluid intelligence in multiple sclerosis <b>2020</b> , 15, e0231868		
104	The relationship between executive functions and fluid intelligence in multiple sclerosis <b>2020</b> , 15, e0231868		
103	The relationship between executive functions and fluid intelligence in multiple sclerosis <b>2020</b> , 15, e0231868		
102	The relationship between executive functions and fluid intelligence in multiple sclerosis <b>2020</b> , 15, e0231868		

101	The effect of rule retrieval on activity in the default mode network. <i>NeuroImage</i> , <b>2019</b> , 202, 116088	7.9	4
100	The time-course of component processes of selective attention. <i>NeuroImage</i> , <b>2019</b> , 199, 396-407	7.9	6
99	Progressive Recruitment of the Frontoparietal Multiple-demand System with Increased Task Complexity, Time Pressure, and Reward. <i>Journal of Cognitive Neuroscience</i> , <b>2019</b> , 31, 1617-1630	3.1	27
98	The multiple-demand system but not the language system supports fluid intelligence. <i>Nature Human Behaviour</i> , <b>2018</b> , 2, 200-204	12.8	40
97	Normalization and the Cholinergic Microcircuit: A Unified Basis for Attention. <i>Trends in Cognitive Sciences</i> , <b>2018</b> , 22, 422-437	14	37
96	Rule reactivation and capture errors in goal directed behaviour. <i>Cortex</i> , <b>2018</b> , 107, 180-187	3.8	1
95	Role of the Default Mode Network in Cognitive Transitions. <i>Cerebral Cortex</i> , <b>2018</b> , 28, 3685-3696	5.1	62
94	Functional reorganisation and recovery following cortical lesions: A preliminary study in macaque monkeys. <i>Neuropsychologia</i> , <b>2018</b> , 119, 382-391	3.2	8
93	Response of the multiple-demand network during simple stimulus discriminations. <i>NeuroImage</i> , <b>2018</b> , 177, 79-87	7.9	8
92	Fluid Intelligence Predicts Novel Rule Implementation in a Distributed Frontoparietal Control Network. <i>Journal of Neuroscience</i> , <b>2017</b> , 37, 4841-4847	6.6	25
91	Complexity and compositionality in fluid intelligence. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2017</b> , 114, 5295-5299	11.5	34
90	Neural Coding for Instruction-Based Task Sets in Human Frontoparietal and Visual Cortex. <i>Cerebral Cortex</i> , <b>2017</b> , 27, 1891-1905	5.1	37
89	The relationship between executive functions and fluid intelligence in euthymic Bipolar Disorder patients. <i>Psychiatry Research</i> , <b>2017</b> , 257, 346-351	9.9	6
88	A Putative Multiple-Demand System in the Macaque Brain. <i>Journal of Neuroscience</i> , <b>2016</b> , 36, 8574-85	6.6	30
87	Coding of Visual, Auditory, Rule, and Response Information in the Brain: 10 Years of Multivoxel Pattern Analysis. <i>Journal of Cognitive Neuroscience</i> , <b>2016</b> , 28, 1433-54	3.1	48
86	Task Encoding across the Multiple Demand Cortex Is Consistent with a Frontoparietal and Cingulo-Opercular Dual Networks Distinction. <i>Journal of Neuroscience</i> , <b>2016</b> , 36, 6147-55	6.6	76
85	Strategy and suppression impairments after right lateral prefrontal and orbito-frontal lesions. <i>Brain</i> , <b>2016</b> , 139, e10	11.2	8
84	Inhibition processes are dissociable and lateralized in human prefrontal cortex. <i>Neuropsychologia</i> , <b>2016</b> , 93, 1-12	3.2	63

83	Training refines brain representations for multitasking. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2015</b> , 112, 14127-8	11.5	2
82	Spatial and temporal distribution of visual information coding in lateral prefrontal cortex. <i>European Journal of Neuroscience</i> , <b>2015</b> , 41, 89-96	3.5	22
81	Discrimination of Visual Categories Based on Behavioral Relevance in Widespread Regions of Frontoparietal Cortex. <i>Journal of Neuroscience</i> , <b>2015</b> , 35, 12383-93	6.6	50
80	Concurrent brain responses to separate auditory and visual targets. <i>Journal of Neurophysiology</i> , <b>2015</b> , 114, 1239-47	3.2	8
79	Idiosyncratic responding during movie-watching predicted by age differences in attentional control. <i>Neurobiology of Aging</i> , <b>2015</b> , 36, 3045-3055	5.6	53
78	Recruitment of the default mode network during a demanding act of executive control. <i>ELife</i> , <b>2015</b> , 4, e06481	8.9	86
77	Goal neglect and knowledge chunking in the construction of novel behaviour. <i>Cognition</i> , <b>2014</b> , 130, 11-30	3.5	46
76	The relationship between executive functions and fluid intelligence in schizophrenia. <i>Frontiers in Behavioral Neuroscience</i> , <b>2014</b> , 8, 46	3.5	24
75	Task difficulty manipulation reveals multiple demand activity but no frontal lobe hierarchy. <i>Cerebral Cortex</i> , <b>2014</b> , 24, 532-40	5.1	93
74	The Cambridge Centre for Ageing and Neuroscience (Cam-CAN) study protocol: a cross-sectional, lifespan, multidisciplinary examination of healthy cognitive ageing. <i>BMC Neurology</i> , <b>2014</b> , 14, 204	3.1	237
73	Broad domain generality in focal regions of frontal and parietal cortex. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2013</b> , 110, 16616-21	11.5	513
72	The structure of cognition: attentional episodes in mind and brain. <i>Neuron</i> , <b>2013</b> , 80, 35-50	13.9	289
71	Intelligence and executive functions in frontotemporal dementia. <i>Neuropsychologia</i> , <b>2013</b> , 51, 725-30	3.2	45
70	Dynamic construction of a coherent attentional state in a prefrontal cell population. <i>Neuron</i> , <b>2013</b> , 80, 235-46	13.9	39
69	Dynamic coding for cognitive control in prefrontal cortex. <i>Neuron</i> , <b>2013</b> , 78, 364-75	13.9	446
68	Global increase in task-related fronto-parietal activity after focal frontal lobe lesion. <i>Journal of Cognitive Neuroscience</i> , <b>2013</b> , 25, 1542-52	3.1	17
67	Hierarchical organization of cognition reflected in distributed frontoparietal activity. <i>Journal of Neuroscience</i> , <b>2012</b> , 32, 17373-81	6.6	34
66	Task rules, working memory, and fluid intelligence. <i>Psychonomic Bulletin and Review</i> , <b>2012</b> , 19, 864-70	4.1	69

65	Language-selective and domain-general regions lie side by side within Broca's area. <i>Current Biology</i> , <b>2012</b> , 22, 2059-62	6.3	259
64	Absence of face-specific cortical activity in the complete absence of awareness: converging evidence from functional magnetic resonance imaging and event-related potentials. <i>Journal of Cognitive Neuroscience</i> , <b>2012</b> , 24, 396-415	3.1	28
63	Multi-voxel coding of stimuli, rules, and responses in human frontoparietal cortex. <i>NeuroImage</i> , <b>2011</b> , 56, 744-52	7.9	103
62	The role of Area 10 (BA10) in human multitasking and in social cognition: a lesion study. <i>Neuropsychologia</i> , <b>2011</b> , 49, 3525-31	3.2	90
61	Lateral prefrontal cortex subregions make dissociable contributions during fluid reasoning. <i>Cerebral Cortex</i> , <b>2011</b> , 21, 1-10	5.1	69
60	Assembly and use of new task rules in fronto-parietal cortex. <i>Journal of Cognitive Neuroscience</i> , <b>2011</b> , 23, 168-82	3.1	66
59	Adaptive coding of task-relevant information in human frontoparietal cortex. <i>Journal of Neuroscience</i> , <b>2011</b> , 31, 14592-9	6.6	141
58	Restricted attentional capacity within but not between sensory modalities: an individual differences approach. <i>PLoS ONE</i> , <b>2010</b> , 5, e15280	3.7	16
57	Fluid intelligence loss linked to restricted regions of damage within frontal and parietal cortex. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2010</b> , 107, 14899-902	11.5	141
56	Target detection by opponent coding in monkey prefrontal cortex. <i>Journal of Cognitive Neuroscience</i> , <b>2010</b> , 22, 751-60	3.1	23
55	Discrete object representation, attention switching, and task difficulty in the parietal lobe. <i>Journal of Cognitive Neuroscience</i> , <b>2010</b> , 22, 32-47	3.1	40
54	Executive function and fluid intelligence after frontal lobe lesions. <i>Brain</i> , <b>2010</b> , 133, 234-47	11.2	213
53	The multiple-demand (MD) system of the primate brain: mental programs for intelligent behaviour. <i>Trends in Cognitive Sciences</i> , <b>2010</b> , 14, 172-9	14	1076
52	The role of the right inferior frontal gyrus: inhibition and attentional control. <i>NeuroImage</i> , <b>2010</b> , 50, 1313-9	3.9	863
51	Frontoparietal activity with minimal decision and control in the awake macaque at 7 T. <i>Magnetic Resonance Imaging</i> , <b>2010</b> , 28, 1120-8	3.3	13
50	Detection of fixed and variable targets in the monkey prefrontal cortex. <i>Cerebral Cortex</i> , <b>2009</b> , 19, 2522-34	3.4	25
49	Evidence for long-range feedback in target detection: Detection of semantic targets modulates activity in early visual areas. <i>Neuropsychologia</i> , <b>2009</b> , 47, 1721-7	3.2	24
48	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

47	Shape-specific preparatory activity mediates attention to targets in human visual cortex. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2009</b> , 106, 19569-74	11.5	113
46	Top-down activation of shape-specific population codes in visual cortex during mental imagery. <i>Journal of Neuroscience</i> , <b>2009</b> , 29, 1565-72	6.6	242
45	Attentional modulation of stimulus representation in human fronto-parietal cortex. <i>NeuroImage</i> , <b>2009</b> , 48, 436-48	7.9	19
44	Hierarchical coding for sequential task events in the monkey prefrontal cortex. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2008</b> , 105, 11969-74	11.5	105
43	Goal neglect and Spearman's g: competing parts of a complex task. <i>Journal of Experimental Psychology: General</i> , <b>2008</b> , 137, 131-48	4.7	112
42	COMT val158met genotype affects recruitment of neural mechanisms supporting fluid intelligence. <i>Cerebral Cortex</i> , <b>2008</b> , 18, 2132-40	5.1	63
41	The target selective neural response--similarity, ambiguity, and learning effects. <i>PLoS ONE</i> , <b>2008</b> , 3, e25207	3.7	28
40	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
39	Frontoparietal activity with minimal decision and control. <i>Journal of Neuroscience</i> , <b>2006</b> , 26, 9805-9	6.6	65
38	Selective representation of task-relevant objects and locations in the monkey prefrontal cortex. <i>European Journal of Neuroscience</i> , <b>2006</b> , 23, 2197-214	3.5	40
37	EPS Mid-Career Award 2004: brain mechanisms of attention. <i>Quarterly Journal of Experimental Psychology</i> , <b>2006</b> , 59, 2-27	1.8	278
36	Within-modality and cross-modality attentional blinks in a simple discrimination task. <i>Perception &amp; Psychophysics</i> , <b>2006</b> , 68, 54-61		40
35	Frontal lobe function and general intelligence: why it matters. <i>Cortex</i> , <b>2005</b> , 41, 215-7	3.8	60
34	Attentional functions of parietal and frontal cortex. <i>Cerebral Cortex</i> , <b>2005</b> , 15, 1469-84	5.1	163
33	Prefrontal cortex and Spearman's g <b>2005</b> , 249-272		7
32	Encoding strategies dissociate prefrontal activity from working memory demand. <i>Neuron</i> , <b>2003</b> , 37, 361-73	7.9	287
31	Filtering of neural signals by focused attention in the monkey prefrontal cortex. <i>Nature Neuroscience</i> , <b>2002</b> , 5, 671-6	25.5	175
30	Separate and shared sources of dual-task cost in stimulus identification and response selection. <i>Cognitive Psychology</i> , <b>2002</b> , 44, 105-47	3.1	63

29	An adaptive coding model of neural function in prefrontal cortex. <i>Nature Reviews Neuroscience</i> , <b>2001</b> , 2, 820-9	13.5	741
28	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
27	A neural basis for general intelligence. <i>Science</i> , <b>2000</b> , 289, 457-60	33.3	792
26	Systematic analysis of deficits in visual attention.. <i>Journal of Experimental Psychology: General</i> , <b>1999</b> , 128, 450-478	4.7	215
25	Systematic analysis of deficits in visual attention. <i>Journal of Experimental Psychology: General</i> , <b>1999</b> , 128, 450-78	4.7	53
24	Responses of neurons in inferior temporal cortex during memory-guided visual search. <i>Journal of Neurophysiology</i> , <b>1998</b> , 80, 2918-40	3.2	545
23	Competitive brain activity in visual attention. <i>Current Opinion in Neurobiology</i> , <b>1997</b> , 7, 255-61	7.6	405
22	Restricted attentional capacity within but not between sensory modalities. <i>Nature</i> , <b>1997</b> , 387, 808-10	50.4	316
21	The Slow Time-Course of Visual Attention. <i>Cognitive Psychology</i> , <b>1996</b> , 30, 79-109	3.1	258
20	Intelligence and the frontal lobe: the organization of goal-directed behavior. <i>Cognitive Psychology</i> , <b>1996</b> , 30, 257-303	3.1	835
19	Objects and attributes in divided attention: surface and boundary systems. <i>Perception &amp; Psychophysics</i> , <b>1996</b> , 58, 1076-84		57
18	A General Factor Involved in Dual-task Performance Decrement. <i>Quarterly Journal of Experimental Psychology Section A: Human Experimental Psychology</i> , <b>1996</b> , 49, 525-545		36
17	A General Factor Involved in Dual task Performance Decrement. <i>Quarterly Journal of Experimental Psychology Section A: Human Experimental Psychology</i> , <b>1996</b> , 49, 525-545		24
16	Fluid intelligence after frontal lobe lesions. <i>Neuropsychologia</i> , <b>1995</b> , 33, 261-8	3.2	491
15	Neural mechanisms of selective visual attention. <i>Annual Review of Neuroscience</i> , <b>1995</b> , 18, 193-222	17	6106
14	Direct measurement of attentional dwell time in human vision. <i>Nature</i> , <b>1994</b> , 369, 313-5	50.4	590
13	A neural basis for visual search in inferior temporal cortex. <i>Nature</i> , <b>1993</b> , 363, 345-7	50.4	1115
12	Similarity between concurrent visual discriminations: dimensions and objects. <i>Perception &amp; Psychophysics</i> , <b>1993</b> , 54, 425-30		73

11	Goal weighting and the choice of behaviour in a complex world. <i>Ergonomics</i> , <b>1990</b> , 33, 1265-1279	2.9	35
10	Visual search and stimulus similarity. <i>Psychological Review</i> , <b>1989</b> , 96, 433-58	6.3	2783
9	Disorganisation of behaviour after frontal lobe damage. <i>Cognitive Neuropsychology</i> , <b>1986</b> , 3, 271-290	2.3	332
8	Selective attention and the organization of visual information.. <i>Journal of Experimental Psychology: General</i> , <b>1984</b> , 113, 501-517	4.7	1565
7	The locus of interference in the perception of simultaneous stimuli.. <i>Psychological Review</i> , <b>1980</b> , 87, 272-300	3.9	700
6	Perceived ambiguity of social interactions increases coupling between frontal and temporal nodes of the social brain		1
5	Hierarchical representation of multi-step tasks in multiple-demand and default mode networks		3
4	The functional convergence and heterogeneity of social, episodic, and self-referential thought in the default mode network		1
3	The time-course of component processes of selective attention		1
2	A Domain-general Cognitive Core defined in Multimodally Parcellated Human Cortex		8
1	Precise topology of adjacent domain-general and sensory-biased regions in the human brain		2