John Duncan

List of Publications by Citations

118	27,953	54	161
papers	citations	h-index	g-index
161	31,431	7.9	7.51
ext. papers	ext. citations	avg, IF	L-index

#	Paper	IF	Citations
118	Neural mechanisms of selective visual attention. *Annual Review of Neuroscience*, **1995**, 18, 193-222	17	6106
117	Visual search and stimulus similarity. *Psychological Review*, **1989**, 96, 433-58	6.3	2783
116	Common regions of the human frontal lobe recruited by diverse cognitive demands. *Trends in Neurosciences*, **2000**, 23, 475-83	13.3	1867
115	Selective attention and the organization of visual information.. *Journal of Experimental Psychology: General*, **1984**, 113, 501-517	4.7	1565
114	A neural basis for visual search in inferior temporal cortex. *Nature*, **1993**, 363, 345-7	50.4	1115
113	The multiple-demand (MD) system of the primate brain: mental programs for intelligent behaviour. *Trends in Cognitive Sciences*, **2010**, 14, 172-9	14	1076
112	The role of the right inferior frontal gyrus: inhibition and attentional control. *NeuroImage*, **2010**, 50, 1313-9	7.9	863
111	Intelligence and the frontal lobe: the organization of goal-directed behavior. *Cognitive Psychology*, **1996**, 30, 257-303	3.1	835
110	A neural basis for general intelligence. *Science*, **2000**, 289, 457-60	33.3	792
109	An adaptive coding model of neural function in prefrontal cortex. *Nature Reviews Neuroscience*, **2001**, 2, 820-9	13.5	741
108	The locus of interference in the perception of simultaneous stimuli.. *Psychological Review*, **1980**, 87, 272-300	6.3	700
107	Direct measurement of attentional dwell time in human vision. *Nature*, **1994**, 369, 313-5	50.4	590
106	Responses of neurons in inferior temporal cortex during memory-guided visual search. *Journal of Neurophysiology*, **1998**, 80, 2918-40	3.2	545
105	Broad domain generality in focal regions of frontal and parietal cortex. *Proceedings of the National Academy of Sciences of the United States of America*, **2013**, 110, 16616-21	11.5	513
104	Fluid intelligence after frontal lobe lesions. *Neuropsychologia*, **1995**, 33, 261-8	3.2	491
103	Dynamic coding for cognitive control in prefrontal cortex. *Neuron*, **2013**, 78, 364-75	13.9	446
102	Competitive brain activity in visual attention. *Current Opinion in Neurobiology*, **1997**, 7, 255-61	7.6	405

101	Disorganisation of behaviour after frontal lobe damage. *Cognitive Neuropsychology*, **1986**, 3, 271-290	2.3	332
100	Restricted attentional capacity within but not between sensory modalities. *Nature*, **1997**, 387, 808-10	50.4	316
99	The structure of cognition: attentional episodes in mind and brain. *Neuron*, **2013**, 80, 35-50	13.9	289
98	Encoding strategies dissociate prefrontal activity from working memory demand. *Neuron*, **2003**, 37, 361-7	13.9	287
97	EPS Mid-Career Award 2004: brain mechanisms of attention. *Quarterly Journal of Experimental Psychology*, **2006**, 59, 2-27	1.8	278
96	Language-selective and domain-general regions lie side by side within Broca¥s area. *Current Biology*, **2012**, 22, 2059-62	6.3	259
95	The Slow Time-Course of Visual Attention. *Cognitive Psychology*, **1996**, 30, 79-109	3.1	258
94	Top-down activation of shape-specific population codes in visual cortex during mental imagery. *Journal of Neuroscience*, **2009**, 29, 1565-72	6.6	242
93	The Cambridge Centre for Ageing and Neuroscience (Cam-CAN) study protocol: a cross-sectional, lifespan, multidisciplinary examination of healthy cognitive ageing. *BMC Neurology*, **2014**, 14, 204	3.1	237
92	Systematic analysis of deficits in visual attention.. *Journal of Experimental Psychology: General*, **1999**, 128, 450-478	4.7	215
91	Executive function and fluid intelligence after frontal lobe lesions. *Brain*, **2010**, 133, 234-47	11.2	213
90	Filtering of neural signals by focused attention in the monkey prefrontal cortex. *Nature Neuroscience*, **2002**, 5, 671-6	25.5	175
89	Attentional functions of parietal and frontal cortex. *Cerebral Cortex*, **2005**, 15, 1469-84	5.1	163
88	Fluid intelligence loss linked to restricted regions of damage within frontal and parietal cortex. *Proceedings of the National Academy of Sciences of the United States of America*, **2010**, 107, 14899-902	11.5	141
87	Adaptive coding of task-relevant information in human frontoparietal cortex. *Journal of Neuroscience*, **2011**, 31, 14592-9	6.6	141
86	Shape-specific preparatory activity mediates attention to targets in human visual cortex. *Proceedings of the National Academy of Sciences of the United States of America*, **2009**, 106, 19569-74	11.5	113
85	Goal neglect and Spearman¥s g: competing parts of a complex task. *Journal of Experimental Psychology: General*, **2008**, 137, 131-48	4.7	112
84	Hierarchical coding for sequential task events in the monkey prefrontal cortex. *Proceedings of the National Academy of Sciences of the United States of America*, **2008**, 105, 11969-74	11.5	105

83	Multi-voxel coding of stimuli, rules, and responses in human frontoparietal cortex. *NeuroImage*, **2011**, 56, 744-52	7.9	103
82	Task difficulty manipulation reveals multiple demand activity but no frontal lobe hierarchy. *Cerebral Cortex*, **2014**, 24, 532-40	5.1	93
81	The role of Area 10 (BA10) in human multitasking and in social cognition: a lesion study. *Neuropsychologia*, **2011**, 49, 3525-31	3.2	90
80	Selective tuning of the right inferior frontal gyrus during target detection. *Cognitive, Affective and Behavioral Neuroscience*, **2009**, 9, 103-12	3.5	87
79	Recruitment of the default mode network during a demanding act of executive control. *ELife*, **2015**, 4, e06481	8.9	86
78	A Domain-General Cognitive Core Defined in Multimodally Parcellated Human Cortex. *Cerebral Cortex*, **2020**, 30, 4361-4380	5.1	82
77	Task Encoding across the Multiple Demand Cortex Is Consistent with a Frontoparietal and Cingulo-Opercular Dual Networks Distinction. *Journal of Neuroscience*, **2016**, 36, 6147-55	6.6	76
76	Similarity between concurrent visual discriminations: dimensions and objects. *Perception & Psychophysics*, **1993**, 54, 425-30		73
75	Selective tuning of the blood oxygenation level-dependent response during simple target detection dissociates human frontoparietal subregions. *Journal of Neuroscience*, **2007**, 27, 6219-23	6.6	70
74	Task rules, working memory, and fluid intelligence. *Psychonomic Bulletin and Review*, **2012**, 19, 864-70	4.1	69
73	Lateral prefrontal cortex subregions make dissociable contributions during fluid reasoning. *Cerebral Cortex*, **2011**, 21, 1-10	5.1	69
72	Assembly and use of new task rules in fronto-parietal cortex. *Journal of Cognitive Neuroscience*, **2011**, 23, 168-82	3.1	66
71	Frontoparietal activity with minimal decision and control. *Journal of Neuroscience*, **2006**, 26, 9805-9	6.6	65
70	COMT val158met genotype affects recruitment of neural mechanisms supporting fluid intelligence. *Cerebral Cortex*, **2008**, 18, 2132-40	5.1	63
69	Separate and shared sources of dual-task cost in stimulus identification and response selection. *Cognitive Psychology*, **2002**, 44, 105-47	3.1	63
68	Inhibition processes are dissociable and lateralized in human prefrontal cortex. *Neuropsychologia*, **2016**, 93, 1-12	3.2	63
67	Role of the Default Mode Network in Cognitive Transitions. *Cerebral Cortex*, **2018**, 28, 3685-3696	5.1	62
66	Frontal lobe function and general intelligence: why it matters. *Cortex*, **2005**, 41, 215-7	3.8	60

65	Objects and attributes in divided attention: surface and boundary systems. *Perception & Psychophysics*, **1996**, 58, 1076-84		57
64	Idiosyncratic responding during movie-watching predicted by age differences in attentional control. *Neurobiology of Aging*, **2015**, 36, 3045-3055	5.6	53
63	Systematic analysis of deficits in visual attention. *Journal of Experimental Psychology: General*, **1999**, 128, 450-78	4.7	53
62	Discrimination of Visual Categories Based on Behavioral Relevance in Widespread Regions of Frontoparietal Cortex. *Journal of Neuroscience*, **2015**, 35, 12383-93	6.6	50
61	Coding of Visual, Auditory, Rule, and Response Information in the Brain: 10 Years of Multivoxel Pattern Analysis. *Journal of Cognitive Neuroscience*, **2016**, 28, 1433-54	3.1	48
60	Goal neglect and knowledge chunking in the construction of novel behaviour. *Cognition*, **2014**, 130, 11-30	3.5	46
59	Intelligence and executive functions in frontotemporal dementia. *Neuropsychologia*, **2013**, 51, 725-30	3.2	45
58	The multiple-demand system but not the language system supports fluid intelligence. *Nature Human Behaviour*, **2018**, 2, 200-204	12.8	40
57	Discrete object representation, attention switching, and task difficulty in the parietal lobe. *Journal of Cognitive Neuroscience*, **2010**, 22, 32-47	3.1	40
56	Selective representation of task-relevant objects and locations in the monkey prefrontal cortex. *European Journal of Neuroscience*, **2006**, 23, 2197-214	3.5	40
55	Within-modality and cross-modality attentional blinks in a simple discrimination task. *Perception & Psychophysics*, **2006**, 68, 54-61		40
54	Dynamic construction of a coherent attentional state in a prefrontal cell population. *Neuron*, **2013**, 80, 235-46	13.9	39
53	Normalization and the Cholinergic Microcircuit: A Unified Basis for Attention. *Trends in Cognitive Sciences*, **2018**, 22, 422-437	14	37
52	Neural Coding for Instruction-Based Task Sets in Human Frontoparietal and Visual Cortex. *Cerebral Cortex*, **2017**, 27, 1891-1905	5.1	37
51	A General Factor Involved in Dual-task Performance Decrement. *Quarterly Journal of Experimental Psychology Section A: Human Experimental Psychology*, **1996**, 49, 525-545		36
50	Goal weighting and the choice of behaviour in a complex world. *Ergonomics*, **1990**, 33, 1265-1279	2.9	35
49	Complexity and compositionality in fluid intelligence. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, 5295-5299	11.5	34
48	Hierarchical organization of cognition reflected in distributed frontoparietal activity. *Journal of Neuroscience*, **2012**, 32, 17373-81	6.6	34

47	A Putative Multiple-Demand System in the Macaque Brain. *Journal of Neuroscience*, **2016**, 36, 8574-85	6.6	30
46	Absence of face-specific cortical activity in the complete absence of awareness: converging evidence from functional magnetic resonance imaging and event-related potentials. *Journal of Cognitive Neuroscience*, **2012**, 24, 396-415	3.1	28
45	The target selective neural response--similarity, ambiguity, and learning effects. *PLoS ONE*, **2008**, 3, e2520	3.7	28
44	Progressive Recruitment of the Frontoparietal Multiple-demand System with Increased Task Complexity, Time Pressure, and Reward. *Journal of Cognitive Neuroscience*, **2019**, 31, 1617-1630	3.1	27
43	Fluid Intelligence Predicts Novel Rule Implementation in a Distributed Frontoparietal Control Network. *Journal of Neuroscience*, **2017**, 37, 4841-4847	6.6	25
42	Detection of fixed and variable targets in the monkey prefrontal cortex. *Cerebral Cortex*, **2009**, 19, 2522-34	3.1	25
41	The relationship between executive functions and fluid intelligence in schizophrenia. *Frontiers in Behavioral Neuroscience*, **2014**, 8, 46	3.5	24
40	Evidence for long-range feedback in target detection: Detection of semantic targets modulates activity in early visual areas. *Neuropsychologia*, **2009**, 47, 1721-7	3.2	24
39	A General Factor Involved in Dual task Performance Decrement. *Quarterly Journal of Experimental Psychology Section A: Human Experimental Psychology*, **1996**, 49, 525-545		24
38	Target detection by opponent coding in monkey prefrontal cortex. *Journal of Cognitive Neuroscience*, **2010**, 22, 751-60	3.1	23
37	Integrated Intelligence from Distributed Brain Activity. *Trends in Cognitive Sciences*, **2020**, 24, 838-852	14	23
36	Spatial and temporal distribution of visual information coding in lateral prefrontal cortex. *European Journal of Neuroscience*, **2015**, 41, 89-96	3.5	22
35	Attentional modulation of stimulus representation in human fronto-parietal cortex. *NeuroImage*, **2009**, 48, 436-48	7.9	19
34	Global increase in task-related fronto-parietal activity after focal frontal lobe lesion. *Journal of Cognitive Neuroscience*, **2013**, 25, 1542-52	3.1	17
33	Restricted attentional capacity within but not between sensory modalities: an individual differences approach. *PLoS ONE*, **2010**, 5, e15280	3.7	16
32	Hierarchical Representation of Multistep Tasks in Multiple-Demand and Default Mode Networks. *Journal of Neuroscience*, **2020**, 40, 7724-7738	6.6	15
31	The Functional Convergence and Heterogeneity of Social, Episodic, and Self-Referential Thought in the Default Mode Network. *Cerebral Cortex*, **2020**, 30, 5915-5929	5.1	13
30	Frontoparietal activity with minimal decision and control in the awake macaque at 7 T. *Magnetic Resonance Imaging*, **2010**, 28, 1120-8	3.3	13

29	Intraoperative mapping of executive function using electrocorticography for patients with low-grade gliomas. *Acta Neurochirurgica*, **2021**, 163, 1299-1309	3	9
28	Strategy and suppression impairments after right lateral prefrontal and orbito-frontal lesions. *Brain* , **2016**, 139, e10	11.2	8
27	Concurrent brain responses to separate auditory and visual targets. *Journal of Neurophysiology*, **2015**, 114, 1239-47	3.2	8
26	A Domain-general Cognitive Core defined in Multimodally Parcellated Human Cortex		8
25	Dissociable effects of attention vs working memory training on cognitive performance and everyday functioning following fronto-parietal strokes. *Neuropsychological Rehabilitation*, **2020**, 30, 1092-1114	3.1	8
24	Functional reorganisation and recovery following cortical lesions: A preliminary study in macaque monkeys. *Neuropsychologia*, **2018**, 119, 382-391	3.2	8
23	Response of the multiple-demand network during simple stimulus discriminations. *NeuroImage*, **2018**, 177, 79-87	7.9	8
22	Prefrontal cortex and Spearman¥ s g **2005**, 249-272		7
21	The time-course of component processes of selective attention. *NeuroImage*, **2019**, 199, 396-407	7.9	6
20	The relationship between executive functions and fluid intelligence in euthymic Bipolar Disorder patients. *Psychiatry Research*, **2017**, 257, 346-351	9.9	6
19	The relationship between executive functions and fluid intelligence in multiple sclerosis. *PLoS ONE*, **2020**, 15, e0231868	3.7	5
18	The effect of rule retrieval on activity in the default mode network. *NeuroImage*, **2019**, 202, 116088	7.9	4
17	Roles of the Default Mode and Multiple-Demand Networks in Naturalistic versus Symbolic Decisions. *Journal of Neuroscience*, **2021**, 41, 2214-2228	6.6	4
16	Precise Topology of Adjacent Domain-General and Sensory-Biased Regions in the Human Brain. *Cerebral Cortex*, **2021**,	5.1	4
15	Hierarchical representation of multi-step tasks in multiple-demand and default mode networks		3
14	Focused Representation of Successive Task Episodes in Frontal and Parietal Cortex. *Cerebral Cortex*, **2020**, 30, 1779-1796	5.1	3
13	Viewing ambiguous social interactions increases functional connectivity between frontal and temporal nodes of the social brain. *Journal of Neuroscience*, **2021**,	6.6	3
12	Training refines brain representations for multitasking. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, 14127-8	11.5	2

11	Precise topology of adjacent domain-general and sensory-biased regions in the human brain		2
10	Distinguishing between parallel and serial processing in visual attention from neurobiological data. *Royal Society Open Science*, **2020**, 7, 191553	3.3	1
9	Rule reactivation and capture errors in goal directed behaviour. *Cortex*, **2018**, 107, 180-187	3.8	1
8	Perceived ambiguity of social interactions increases coupling between frontal and temporal nodes of the social brain		1
7	The functional convergence and heterogeneity of social, episodic, and self-referential thought in the default mode network		1
6	The time-course of component processes of selective attention		1
5	Fluid intelligence and naturalistic task impairments after focal brain lesions. *Cortex*, **2021**, 146, 106-115	3.8	0
4	The relationship between executive functions and fluid intelligence in multiple sclerosis **2020**, 15, e0231868		
3	The relationship between executive functions and fluid intelligence in multiple sclerosis **2020**, 15, e0231868		
2	The relationship between executive functions and fluid intelligence in multiple sclerosis **2020**, 15, e0231868		
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