Adam Gazzaley

List of Publications by Year
in descending order

123 papers	11,676 citations	44069 48 h-index	31849 101 g-index
129 all docs	129 docs citations	129 times ranked	11897 citing authors

#	Article	IF	Citations
1	Top-down modulation: bridging selective attention and working memory. Trends in Cognitive Sciences, 2012, 16, 129-135.	7.8	1,049
2	Measuring functional connectivity during distinct stages of a cognitive task. NeuroImage, 2004, 23, 752-763.	4.2	809
3	Top-down suppression deficit underlies working memory impairment in normal aging. Nature Neuroscience, 2005, 8, 1298-1300.	14.8	788
4	Alterations in the BOLD fMRI signal with ageing and disease: a challenge for neuroimaging. Nature Reviews Neuroscience, 2003, 4, 863-872.	10.2	734
5	Causal role of the prefrontal cortex in top-down modulation of visual processing and working memory. Nature Neuroscience, 2011, 14, 656-661.	14.8	564
6	Age-Related Changes in 1/<i>f</i>Neural Electrophysiological Noise. Journal of Neuroscience, 2015, 35, 13257-13265.	3.6	479
7	Top-down Enhancement and Suppression of the Magnitude and Speed of Neural Activity. Journal of Cognitive Neuroscience, 2005, 17, 507-517.	2.3	403
8	Age-related top-down suppression deficit in the early stages of cortical visual memory processing. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 13122-13126.	7.1	382
9	Fronto-parietal network: flexible hub of cognitive control. Trends in Cognitive Sciences, 2013, 17, 602-603.	7.8	296
10	The Use and Effectiveness of Mobile Apps for Depression: Results From a Fully Remote Clinical Trial. Journal of Medical Internet Research, 2016, 18, e330.	4.3	282
11	Effects of noninvasive brain stimulation on cognitive function in healthy aging and Alzheimer's disease: a systematic review and meta-analysis. Neurobiology of Aging, 2015, 36, 2348-2359.	3.1	268
12	Neural Suppression of Irrelevant Information Underlies Optimal Working Memory Performance. Journal of Neuroscience, 2009, 29, 3059-3066.	3.6	249
13	Functional Interactions between Prefrontal and Visual Association Cortex Contribute to Top-Down Modulation of Visual Processing. Cerebral Cortex, 2007, 17, i125-i135.	2.9	229
14	Differential coupling of visual cortex with default or frontal-parietal network based on goals. Nature Neuroscience, 2011, 14, 830-832.	14.8	198
15	The Influence of Perceptual Training on Working Memory in Older Adults. PLoS ONE, 2010, 5, e11537.	2.5	190
16	Deficit in switching between functional brain networks underlies the impact of multitasking on working memory in older adults. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 7212-7217.	7.1	178
17	Top-Down Modulation and Normal Aging. Annals of the New York Academy of Sciences, 2007, 1097, 67-83.	3.8	172
18	Improving Methodological Standards in Behavioral Interventions for Cognitive Enhancement. Journal of Cognitive Enhancement: Towards the Integration of Theory and Practice, 2019, 3, 2-29.	1.6	149

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19	Reward modulation of prefrontal and visual association cortex during an incentive working memory task. Brain Research, 2007, 1141, 168-177.	2.2	148
20	Conducting a fully mobile and randomised clinical trial for depression: access, engagement and expense. BMJ Innovations, 2016, 2, 14-21.	1.7	148
21	Early Topâ€“Down Control of Visual Processing Predicts Working Memory Performance. Journal of Cognitive Neuroscience, 2010, 22, 1224-1234.	2.3	140
22	Video Games for Neuro-Cognitive Optimization. Neuron, 2016, 90, 214-218.	8.1	137
23	Reducing vascular variability of fMRI data across aging populations using a breathholding task. Human Brain Mapping, 2007, 28, 846-859.	3.6	129
24	Top-down modulation of visual feature processing: The role of the inferior frontal junction. NeuroImage, 2010, 53, 736-745.	4.2	125
25	Influence of early attentional modulation on working memory. Neuropsychologia, 2011, 49, 1410-1424.	1.6	123
26	Distinct mechanisms for the impact of distraction and interruption on working memory in aging. Neurobiology of Aging, 2012, 33, 134-148.	3.1	123
27	Adaptive Training Diminishes Distractibility in Aging across Species. Neuron, 2014, 84, 1091-1103.	8.1	122
28	Age-Related Changes in Orienting Attention in Time. Journal of Neuroscience, 2011, 31, 12461-12470.	3.6	114
29	Video games, cognitive exercises, and the enhancement of cognitive abilities. Current Opinion in Behavioral Sciences, 2015, 4, 160-165.	3.9	104
30	Delays in neural processing during working memory encoding in normal aging. Neuropsychologia, 2010, 48, 13-25.	1.6	95
31	Expectation-Driven Changes in Cortical Functional Connectivity Influence Working Memory and Long-Term Memory Performance. Journal of Neuroscience, 2010, 30, 14399-14410.	3.6	88
32	The effect of non-visual working memory load on top-down modulation of visual processing. Neuropsychologia, 2009, 47, 1637-1646.	1.6	85
33	Clinicalâ€neuroimaging characteristics of dysexecutive mild cognitive impairment. Annals of Neurology, 2009, 65, 414-423.	5.3	85
34	Using Mobile Apps to Assess and Treat Depression in Hispanic and Latino Populations: Fully Remote Randomized Clinical Trial. Journal of Medical Internet Research, 2018, 20, e10130.	4.3	82
35	Age-related deficits in component processes of working memory.. Neuropsychology, 2007, 21, 532-539.	1.3	80
36	Neural Mechanisms Underlying the Impact of Visual Distraction on Retrieval of Long-Term Memory. Journal of Neuroscience, 2010, 30, 8541-8550.	3.6	77

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37	Predictive knowledge of stimulus relevance does not influence top-down suppression of irrelevant information in older adults. Cortex, 2010, 46, 564-574.	2.4	65
38	Recommendations for the Use of Serious Games in Neurodegenerative Disorders: 2016 Delphi Panel. Frontiers in Psychology, 2017, 8, 1243.	2.1	64
39	Structural and functional differences in medial prefrontal cortex underlie distractibility and suppression deficits in ageing. Nature Communications, 2014, 5, 4223.	12.8	63
40	Closed-loop digital meditation improves sustained attention in young adults. Nature Human Behaviour, 2019, 3, 746-757.	12.0	63
41	Delayed enhancement of multitasking performance: Effects of anodal transcranial direct current stimulation on the prefrontal cortex. Cortex, 2015, 69, 175-185.	2.4	62
42	Response bias and aging on a recognition memory task. Journal of the International Neuropsychological Society, 2006, 12, 1-7.	1.8	60
43	Is the Prefrontal Cortex Necessary for Delay Task Performance? Evidence from Lesion and fMRI Data. Journal of the International Neuropsychological Society, 2006, 12, 248-260.	1.8	59
44	Conscious thoughts from reflex-like processes: A new experimental paradigm for consciousness research. Consciousness and Cognition, 2013, 22, 1318-1331.	1.5	58
45	Dissociation of motor and sensory inhibition processes in normal aging. Clinical Neurophysiology, 2012, 123, 730-740.	1.5	57
46	Homing in on consciousness in the nervous system: An action-based synthesis. Behavioral and Brain Sciences, 2016, 39, e168.	0.7	57
47	Aging of the frontal lobe. Handbook of Clinical Neurology / Edited By P J Vinken and G W Bruyn, 2019, 163, 369-389.	1.8	57
48	Prolonged disengagement from attentional capture in normal aging.. Psychology and Aging, 2013, 28, 77-86.	1.6	54
49	Linked Sources of Neural Noise Contribute to Age-related Cognitive Decline. Journal of Cognitive Neuroscience, 2020, 32, 1813-1822.	2.3	53
50	An expectation-based memory deficit in aging. Neuropsychologia, 2011, 49, 1466-1475.	1.6	52
51	External control of the stream of consciousness: Stimulus-based effects on involuntary thought sequences. Consciousness and Cognition, 2015, 33, 217-225.	1.5	52
52	Practice-Related Improvement in Working Memory is Modulated by Changes in Processing External Interference. Journal of Neurophysiology, 2009, 102, 1779-1789.	1.8	50
53	Involuntary symbol manipulation (Pig Latin) from external control: Implications for thought suppression. Acta Psychologica, 2016, 166, 37-41.	1.5	45
54	Indirect cognitive control through topâ€down activation of perceptual symbols. European Journal of Social Psychology, 2009, 39, 1173-1177.	2.4	44

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55	Enhancement of multitasking performance and neural oscillations by transcranial alternating current stimulation. PLoS ONE, 2017, 12, e0178579.	2.5	42
56	Attention Distributed across Sensory Modalities Enhances Perceptual Performance. Journal of Neuroscience, 2012, 32, 12294-12302.	3.6	40
57	Cholinergic enhancement of functional networks in older adults with mild cognitive impairment. Annals of Neurology, 2013, 73, 762-773.	5.3	36
58	Diminished Top-Down Control Underlies a Visual Imagery Deficit in Normal Aging. Journal of Neuroscience, 2011, 31, 15768-15774.	3.6	35
59	Enhancing Spatial Attention and Working Memory in Younger and Older Adults. Journal of Cognitive Neuroscience, 2017, 29, 1483-1497.	2.3	34
60	A Cognitive Framework for Understanding and Improving Interference Resolution in the Brain. Progress in Brain Research, 2013, 207, 351-377.	1.4	33
61	Harnessing the neuroplastic potential of the human brain & the future of cognitive rehabilitation. Frontiers in Human Neuroscience, 2014, 8, 218.	2.0	33
62	Spatial Attention and the Effects of Frontoparietal Alpha Band Stimulation. Frontiers in Human Neuroscience, 2016, 10, 658.	2.0	31
63	A Videogame-Based Digital Therapeutic to Improve Processing Speed in People with Multiple Sclerosis: A Feasibility Study. Neurology and Therapy, 2019, 8, 135-145.	3.2	31
64	Enhanced Attention Using Head-mounted Virtual Reality. Journal of Cognitive Neuroscience, 2020, 32, 1438-1454.	2.3	31
65	The impact of auditory distraction on retrieval of visual memories. Psychonomic Bulletin and Review, 2011, 18, 1090-1097.	2.8	29
66	The impact of visual distraction on episodic retrieval in older adults. Brain Research, 2012, 1430, 78-85.	2.2	29
67	Preparatory Encoding of the Fine Scale of Human Spatial Attention. Journal of Cognitive Neuroscience, 2017, 29, 1302-1310.	2.3	29
68	Neural plasticity underlying visual perceptual learning in aging. Brain Research, 2015, 1612, 140-151.	2.2	28
69	Can pragmatic research, real-world data and digital technologies aid the development of psychedelic medicine?. Journal of Psychopharmacology, 2022, 36, 6-11.	4.0	28
70	The functional oculomotor network and saccadic cognitive control in healthy elders. NeuroImage, 2014, 95, 61-68.	4.2	27
71	Closed-loop digital meditation for neurocognitive and behavioral development in adolescents with childhood neglect. Translational Psychiatry, 2020, 10, 153.	4.8	27
72	Individual differences in neuroanatomy and neurophysiology predict effects of transcranial alternating current stimulation. Brain Stimulation, 2021, 14, 1317-1329.	1.6	27

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73	Distractibility during retrieval of long-term memory: domain-general interference, neural networks and increased susceptibility in normal aging. Frontiers in Psychology, 2014, 5, 280.	2.1	26
74	Age-equivalent Topâ€“Down Modulation during Cross-modal Selective Attention. Journal of Cognitive Neuroscience, 2014, 26, 2827-2839.	2.3	25
75	Reliability measures of functional magnetic resonance imaging in a longitudinal evaluation of mild cognitive impairment. NeuroImage, 2014, 84, 443-452.	4.2	25
76	Closed-loop cognition: the next frontier arrives. Trends in Cognitive Sciences, 2015, 19, 242-243.	7.8	25
77	Virtual reality video game improves high-fidelity memory in older adults. Scientific Reports, 2021, 11, 2552.	3.3	25
78	Parametric effects of transcranial alternating current stimulation on multitasking performance. Brain Stimulation, 2019, 12, 73-83.	1.6	24
79	How to Assess Gaming-Induced Benefits on Attention and Working Memory. Games for Health Journal, 2012, 1, 192-198.	2.0	23
80	Reconfiguration of Electroencephalography Microstate Networks after Breath-Focused, Digital Meditation Training. Brain Connectivity, 2021, 11, 146-155.	1.7	23
81	Preserved Discrimination Performance and Neural Processing during Crossmodal Attention in Aging. PLoS ONE, 2013, 8, e81894.	2.5	22
82	Attentional updating and monitoring and affective shifting are impacted independently by aging in macaque monkeys. Behavioural Brain Research, 2017, 322, 329-338.	2.2	22
83	Characterizing cognitive and visuomotor control in children with sensory processing dysfunction and autism spectrum disorders.. Neuropsychology, 2018, 32, 148-160.	1.3	22
84	Neural sources of performance decline during continuous multitasking. Cortex, 2015, 71, 49-57.	2.4	21
85	A novel in-home digital treatment to improve processing speed in people with multiple sclerosis: A pilot study. Multiple Sclerosis Journal, 2021, 27, 778-789.	3.0	21
86	Effects of Transcranial Direct Current Stimulation on Cognition, Mood, Pain, and Fatigue in Multiple Sclerosis: A Systematic Review and Meta-Analysis. Frontiers in Neurology, 2021, 12, 626113.	2.4	21
87	Closed-Loop Rehabilitation of Age-Related Cognitive Disorders. Seminars in Neurology, 2014, 34, 584-590.	1.4	20
88	Retrieval of high-fidelity memory arises from distributed cortical networks. NeuroImage, 2017, 149, 178-189.	4.2	18
89	Closed-Loop Neurofeedback of Î± Synchrony during Goal-Directed Attention. Journal of Neuroscience, 2021, 41, 5699-5710.	3.6	18
90	Comparable mechanisms of working memory interference by auditory and visual motion in youth and aging. Neuropsychologia, 2013, 51, 1896-1906.	1.6	16

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91	Predictive cues and age-related declines in working memory performance. Neurobiology of Aging, 2017, 49, 31-39.	3.1	16
92	Reconciling the influence of task-set switching and motor inhibition processes on stop signal after-effects. Frontiers in Psychology, 2013, 4, 649.	2.1	15
93	Traditional response interference effects from anticipated action outcomes: A responseâ€"effect compatibility paradigm. Acta Psychologica, 2011, 138, 106-110.	1.5	14
94	Rapid Functional Reorganization in Human Cortex Following Neural Perturbation. Journal of Neuroscience, 2013, 33, 16268-16274.	3.6	14
95	Long-term maintenance of multitasking abilities following video game training in older adults. Neurobiology of Aging, 2021, 103, 22-30.	3.1	14
96	External distraction impairs categorization performance in older adults.. Psychology and Aging, 2014, 29, 666-671.	1.6	13
97	Differential Impact of Interference on Internally- and Externally-Directed Attention. Scientific Reports, 2018, 8, 2498.	3.3	13
98	Linking inhibitory control to math achievement via comparison of conflicting decimal numbers. Cognition, 2021, 214, 104767.	2.2	13
99	White Matter Microstructure Associations of Cognitive and Visuomotor Control in Children: A Sensory Processing Perspective. Frontiers in Integrative Neuroscience, 2018, 12, 65.	2.1	13
100	Externally controlled involuntary cognitions and their relations with other representations in consciousness. Consciousness and Cognition, 2017, 55, 1-10.	1.5	12
101	Evidence of a Causal Role for mid-Ventrolateral Prefrontal Cortex Based Functional Networks in Retrieving High-Fidelity Memory. Scientific Reports, 2018, 8, 14877.	3.3	12
102	A Tablet-Based Assessment of Rhythmic Ability. Frontiers in Psychology, 2019, 10, 2471.	2.1	11
103	Passive frame theory: A new synthesis. Behavioral and Brain Sciences, 2016, 39, e199.	0.7	10
104	Involuntary mental rotation and visuospatial imagery from external control. Consciousness and Cognition, 2019, 75, 102809.	1.5	10
105	Application of an Adaptive, Digital, Game-Based Approach for Cognitive Assessment in Multiple Sclerosis: Observational Study. Journal of Medical Internet Research, 2021, 23, e24356.	4.3	10
106	Exploring the Potential of the iPad and Xbox Kinect for Cognitive Science Research. Games for Health Journal, 2015, 4, 221-224.	2.0	9
107	Leveraging technology to personalize cognitive enhancement methods in aging. Nature Aging, 2022, 2, 475-483.	11.6	9
108	Temporal attention is not affected by working memory load. Cortex, 2020, 130, 351-361.	2.4	7

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109	Age-Related Changes in Expectation-Based Modulation of Motion Detectability. PLoS ONE, 2013, 8, e69766.	2.5	7
110	Involuntary attentional shifts as a function of set and processing fluency. Acta Psychologica, 2020, 203, 103009.	1.5	6
111	Assessing Cognitive Function in Multiple Sclerosis With Digital Tools: Observational Study. Journal of Medical Internet Research, 2021, 23, e25748.	4.3	6
112	Can Age-Associated Memory Decline Be Treated?. New England Journal of Medicine, 2011, 365, 1346-1347.	27.0	5
113	Subjective aspects of working memory performance: Memoranda-related imagery. Consciousness and Cognition, 2014, 25, 88-100.	1.5	5
114	Representations in working memory yield interference effects found with externally-triggered representations. Acta Psychologica, 2013, 142, 127-135.	1.5	4
115	The Generation of Involuntary Mental Imagery in an Ecologically-Valid Task. Frontiers in Psychology, 2021, 12, 759685.	2.1	4
116	Stimulating the aging brain. Annals of Neurology, 2013, 73, 1-3.	5.3	3
117	Flavanol-rich food for thought. Nature Neuroscience, 2014, 17, 1624-1625.	14.8	3
118	A Cognitive Paradigm to Investigate Interference in Working Memory by Distractions and Interruptions. Journal of Visualized Experiments, 2015, , e52226.	0.3	2
119	Research outside the laboratory: Longitudinal at-home neurostimulation. Behavioural Brain Research, 2022, 428, 113894.	2.2	1
120	Validation of At-Home Application of a Digital Cognitive Screener for Older Adults. Frontiers in Aging Neuroscience, 0, 14, .	3.4	1
121	Physiological And Cognitive Adaptations To 8 Weeks Of Training On A Movement-based Video Game. Medicine and Science in Sports and Exercise, 2016, 48, 922.	0.4	0
122	Maximal Oxygen Uptake Responders Versus Non-responders Show Differing Cognitive Responses to Movement-based Video Game Training. Medicine and Science in Sports and Exercise, 2019, 51, 850-850.	0.4	0
123	Encapsulation and subjectivity from the standpoint of viewpoint theory. Behavioral and Brain Sciences, 2022, 45, e55.	0.7	0