

# R Nathan Spreng

## List of Publications by Year in Descending Order

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**Version:** 2024-04-27

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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.

126  
papers

11,710  
citations

41  
h-index

108  
g-index

150  
ext. papers

14,673  
ext. citations

5.8  
avg. IF

7.03  
L-index

#	Paper	IF	Citations
126	Age differences in the functional architecture of the human brain.. <i>Cerebral Cortex</i> , <b>2022</b> ,	5.1	4
125	White matter lesion load is associated with lower within- and greater between- network connectivity across older age.. <i>Neurobiology of Aging</i> , <b>2022</b> , 112, 170-180	5.6	2
124	Neurocognitive aging data release with behavioral, structural and multi-echo functional MRI measures.. <i>Scientific Data</i> , <b>2022</b> , 9, 119	8.2	3
123	Serotonergic psychedelic drugs LSD and psilocybin reduce the hierarchical differentiation of unimodal and transmodal cortex.. <i>NeuroImage</i> , <b>2022</b> , 119220	7.9	2
122	Brain Dynamics Underlying Cognitive Flexibility Across the Lifespan. <i>Cerebral Cortex</i> , <b>2021</b> , 31, 5263-5274	4.1	3
121	Troubled past: A critical psychometric assessment of the self-report Survey of Autobiographical Memory (SAM). <i>Behavior Research Methods</i> , <b>2021</b> , 1	6.1	2
120	Spatiotemporal functional interactivity among large-scale brain networks. <i>NeuroImage</i> , <b>2021</b> , 227, 1176289	7.9	0
119	Aging and Financial Exploitation Risk <b>2021</b> , 55-73		3
118	Deep learning identifies partially overlapping subnetworks in the human social brain. <i>Communications Biology</i> , <b>2021</b> , 4, 65	6.7	6
117	Loneliness and Neurocognitive Aging. <i>Advances in Geriatric Medicine and Research</i> , <b>2021</b> , 3,	2.1	1
116	Heritability of individualized cortical network topography. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2021</b> , 118,	11.5	17
115	Social exclusion reliably engages the default network: A meta-analysis of Cyberball. <i>NeuroImage</i> , <b>2021</b> , 227, 117666	7.9	15
114	Inter-regional BOLD signal variability is an organizational feature of functional brain networks. <i>NeuroImage</i> , <b>2021</b> , 237, 118149	7.9	6
113	From exploration to exploitation: a shifting mental mode in late life development. <i>Trends in Cognitive Sciences</i> , <b>2021</b> , 25, 1058-1071	14	7
112	Age differences in intuitive moral decision-making: Associations with inter-network neural connectivity. <i>Psychology and Aging</i> , <b>2021</b> , 36, 902-916	3.6	5
111	The default network of the human brain is associated with perceived social isolation. <i>Nature Communications</i> , <b>2020</b> , 11, 6393	17.4	40
110	Default network interactivity during mentalizing about known others is modulated by age and social closeness. <i>Social Cognitive and Affective Neuroscience</i> , <b>2020</b> , 15, 537-549	4	3

109	Basal forebrain volume reliably predicts the cortical spread of Alzheimer's degeneration. <i>Brain</i> , <b>2020</b> , 143, 993-1009	11.2	28
108	Longitudinal Basal Forebrain Degeneration Interacts with TREM2/C3 Biomarkers of Inflammation in Presymptomatic Alzheimer's Disease. <i>Journal of Neuroscience</i> , <b>2020</b> , 40, 1931-1942	6.6	17
107	Uncovering Susceptibility Risk to Online Deception in Aging. <i>Journals of Gerontology - Series B Psychological Sciences and Social Sciences</i> , <b>2020</b> , 75, 522-533	4.6	17
106	Targeting age-related differences in brain and cognition with multimodal imaging and connectome topography profiling. <i>Human Brain Mapping</i> , <b>2019</b> , 40, 5213-5230	5.9	18
105	Topography and behavioral relevance of the global signal in the human brain. <i>Scientific Reports</i> , <b>2019</b> , 9, 14286	4.9	37
104	Beyond consensus: Embracing heterogeneity in curated neuroimaging meta-analysis. <i>NeuroImage</i> , <b>2019</b> , 200, 142-158	7.9	12
103	Structural Covariance Reveals Alterations in Control and Salience Network Integrity in Chronic Schizophrenia. <i>Cerebral Cortex</i> , <b>2019</b> , 29, 5269-5284	5.1	16
102	The Shifting Architecture of Cognition and Brain Function in Older Adulthood. <i>Perspectives on Psychological Science</i> , <b>2019</b> , 14, 523-542	9.8	64
101	Loneliness and meaning in life are reflected in the intrinsic network architecture of the brain. <i>Social Cognitive and Affective Neuroscience</i> , <b>2019</b> , 14, 423-433	4	34
100	Intrinsic default-executive coupling of the creative aging brain. <i>Social Cognitive and Affective Neuroscience</i> , <b>2019</b> , 14, 291-303	4	18
99	Oxytocin alters patterns of brain activity and amygdalar connectivity by age during dynamic facial emotion identification. <i>Neurobiology of Aging</i> , <b>2019</b> , 78, 42-51	5.6	13
98	Neural signatures of chronic accessibility in parent - adult child attachment bonds. <i>Social Neuroscience</i> , <b>2019</b> , 14, 462-469	2	8
97	Inhibit, switch, and update: A within-subject fMRI investigation of executive control. <i>Neuropsychologia</i> , <b>2019</b> , 132, 107134	3.2	15
96	Mind the gap: Congruence between present and future motivational states shapes prospective decisions. <i>Neuropsychologia</i> , <b>2019</b> , 132, 107130	3.2	1
95	Aging and the wandering brain: Age-related differences in the neural correlates of stimulus-independent thoughts. <i>PLoS ONE</i> , <b>2019</b> , 14, e0223981	3.7	9
94	Towards a Universal Taxonomy of Macro-scale Functional Human Brain Networks. <i>Brain Topography</i> , <b>2019</b> , 32, 926-942	4.3	132
93	Structure and function of the aging brain. <b>2019</b> , 9-43		6
92	An attachment theoretical perspective for the neural representation of close others. <i>Social Cognitive and Affective Neuroscience</i> , <b>2019</b> , 14, 237-251	4	16

91	Sex differences in the relationship between cardiorespiratory fitness and brain function in older adulthood. <i>Journal of Applied Physiology</i> , <b>2019</b> , 126, 1032-1041	3.7	9
90	Gradients of structure-function tethering across neocortex. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2019</b> , 116, 21219-21227	11.5	152
89	Take a deep breath: Multiecho fMRI denoising effectively removes head motion artifacts, obviating the need for global signal regression. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2019</b> , 116, 19241-19242	11.5	7
88	Localising memory retrieval and syntactic composition: an fMRI study of naturalistic language comprehension. <i>Language, Cognition and Neuroscience</i> , <b>2019</b> , 34, 491-510	2.4	17
87	Creative aging: functional brain networks associated with divergent thinking in older and younger adults. <i>Neurobiology of Aging</i> , <b>2019</b> , 75, 150-158	5.6	25
86	Intrinsic neurocognitive network connectivity differences between normal aging and mild cognitive impairment are associated with cognitive status and age. <i>Neurobiology of Aging</i> , <b>2019</b> , 73, 219-228	5.6	19
85	Aging and the wandering brain: Age-related differences in the neural correlates of stimulus-independent thoughts <b>2019</b> , 14, e0223981		
84	Aging and the wandering brain: Age-related differences in the neural correlates of stimulus-independent thoughts <b>2019</b> , 14, e0223981		
83	Aging and the wandering brain: Age-related differences in the neural correlates of stimulus-independent thoughts <b>2019</b> , 14, e0223981		
82	Aging and the wandering brain: Age-related differences in the neural correlates of stimulus-independent thoughts <b>2019</b> , 14, e0223981		
81	Segregation of the human basal forebrain using resting state functional MRI. <i>NeuroImage</i> , <b>2018</b> , 173, 287-297	7.9	28
80	Heterogeneity within the frontoparietal control network and its relationship to the default and dorsal attention networks. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2018</b> , 115, E1598-E1607	11.5	194
79	Episodic memory solves both social and nonsocial problems, and evolved to fulfill many different functions. <i>Behavioral and Brain Sciences</i> , <b>2018</b> , 41, e20	0.9	2
78	The Neuroscience of Spontaneous Thought <b>2018</b> ,		10
77	Rumination Is a Sticky Form of Spontaneous Thought <b>2018</b> ,		2
76	Better imagined: Neural correlates of the episodic simulation boost to prospective memory performance. <i>Neuropsychologia</i> , <b>2018</b> , 113, 22-28	3.2	9
75	Semanticized autobiographical memory and the default - executive coupling hypothesis of aging. <i>Neuropsychologia</i> , <b>2018</b> , 110, 37-43	3.2	38
74	Age-related differences in mind-wandering in daily life. <i>Psychology and Aging</i> , <b>2018</b> , 33, 643-653	3.6	33

73	What if? Neural activity underlying semantic and episodic counterfactual thinking. <i>NeuroImage</i> , <b>2018</b> , 178, 332-345	7.9	11
72	Longitudinal Alzheimer's Degeneration Reflects the Spatial Topography of Cholinergic Basal Forebrain Projections. <i>Cell Reports</i> , <b>2018</b> , 24, 38-46	10.6	32
71	Individual parcellation of resting fMRI with a group functional connectivity prior. <i>NeuroImage</i> , <b>2017</b> , 156, 87-100	7.9	50
70	Dissociable patterns of brain activity for mentalizing about known others: a role for attachment. <i>Social Cognitive and Affective Neuroscience</i> , <b>2017</b> , 12, 1072-1082	4	25
69	Structural covariance networks across the life span, from 6 to 94 years of age. <i>Network Neuroscience</i> , <b>2017</b> , 1, 302-323	5.6	36
68	Fluid and flexible minds: Intelligence reflects synchrony in the brain's intrinsic network architecture. <i>Network Neuroscience</i> , <b>2017</b> , 1, 192-207	5.6	40
67	Saliency network engagement with the detection of morally laden information. <i>Social Cognitive and Affective Neuroscience</i> , <b>2017</b> , 12, 1118-1127	4	19
66	Interactions between the default network and dorsal attention network vary across default subsystems, time, and cognitive states. <i>NeuroImage</i> , <b>2017</b> , 147, 632-649	7.9	113
65	Initial Validation for the Estimation of Resting-State fMRI Effective Connectivity by a Generalization of the Correlation Approach. <i>Frontiers in Neuroscience</i> , <b>2017</b> , 11, 271	5.1	4
64	Executive Functions and Neurocognitive Aging <b>2017</b> , 169-196		11
63	The Hippocampus and Social Cognition <b>2017</b> , 537-558		11
62	Neural congruence between intertemporal and interpersonal self-control: Evidence from delay and social discounting. <i>NeuroImage</i> , <b>2017</b> , 162, 186-198	7.9	19
61	Financial Exploitation Is Associated With Structural and Functional Brain Differences in Healthy Older Adults. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , <b>2017</b> , 72, 1365-1368	6.4	32
60	Attenuated anticorrelation between the default and dorsal attention networks with aging: evidence from task and rest. <i>Neurobiology of Aging</i> , <b>2016</b> , 45, 149-160	5.6	122
59	Toward a Taxonomy of Future Thinking <b>2016</b> , 21-36		11
58	Mind-wandering as spontaneous thought: a dynamic framework. <i>Nature Reviews Neuroscience</i> , <b>2016</b> , 17, 718-731	13.5	543
57	Cognitive, social, and neural determinants of diminished decision-making and financial exploitation risk in aging and dementia: A review and new model. <i>Journal of Elder Abuse and Neglect</i> , <b>2016</b> , 28, 320-344	1.9	52
56	Basal forebrain degeneration precedes and predicts the cortical spread of Alzheimer's pathology. <i>Nature Communications</i> , <b>2016</b> , 7, 13249	17.4	151

55	Waiting with purpose: A reliable but small association between purpose in life and impulsivity. <i>Personality and Individual Differences</i> , <b>2016</b> , 90, 187-189	3.3	20
54	Spatiotemporal mixed modeling of multi-subject task fMRI via method of moments. <i>NeuroImage</i> , <b>2016</b> , 142, 280-292	7.9	5
53	Multi-echo fMRI replication sample of autobiographical memory, prospection and theory of mind reasoning tasks. <i>Scientific Data</i> , <b>2016</b> , 3, 160116	8.2	17
52	Characterizing the subjective experience of episodic past, future, and counterfactual thinking in healthy younger and older adults. <i>Quarterly Journal of Experimental Psychology</i> , <b>2016</b> , 69, 2358-2375	1.8	26
51	Autobiographical Planning and the Brain: Activation and Its Modulation by Qualitative Features. <i>Journal of Cognitive Neuroscience</i> , <b>2015</b> , 27, 2147-57	3.1	38
50	Prefrontal Engagement and Reduced Default Network Suppression Co-occur and Are Dynamically Coupled in Older Adults: The Default-Executive Coupling Hypothesis of Aging. <i>Journal of Cognitive Neuroscience</i> , <b>2015</b> , 27, 2462-76	3.1	91
49	Napping and the selective consolidation of negative aspects of scenes. <i>Emotion</i> , <b>2015</b> , 15, 176-86	4.1	83
48	The wandering brain: meta-analysis of functional neuroimaging studies of mind-wandering and related spontaneous thought processes. <i>NeuroImage</i> , <b>2015</b> , 111, 611-21	7.9	365
47	Neural activity associated with self, other, and object-based counterfactual thinking. <i>NeuroImage</i> , <b>2015</b> , 109, 12-26	7.9	42
46	Future planning: default network activity couples with frontoparietal control network and reward-processing regions during process and outcome simulations. <i>Social Cognitive and Affective Neuroscience</i> , <b>2014</b> , 9, 1942-51	4	98
45	Goal-congruent default network activity facilitates cognitive control. <i>Journal of Neuroscience</i> , <b>2014</b> , 34, 14108-14	6.6	109
44	The default network and self-generated thought: component processes, dynamic control, and clinical relevance. <i>Annals of the New York Academy of Sciences</i> , <b>2014</b> , 1316, 29-52	6.5	1027
43	Sex differences in volume and structural covariance of the anterior and posterior hippocampus. <i>NeuroImage</i> , <b>2014</b> , 99, 215-25	7.9	52
42	Imagine all the people: how the brain creates and uses personality models to predict behavior. <i>Cerebral Cortex</i> , <b>2014</b> , 24, 1979-87	5.1	137
41	Dual-retrieval models and neurocognitive impairment. <i>Journal of Experimental Psychology: Learning Memory and Cognition</i> , <b>2014</b> , 40, 41-65	2.2	13
40	Directed interactivity of large-scale brain networks: Introducing a new method for estimating resting-state effective connectivity MRI <b>2014</b> ,		1
39	A taxonomy of prospection: introducing an organizational framework for future-oriented cognition. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2014</b> , 111, 18414-21	11.5	268
38	Resting-state functional connectivity MRI reveals active processes central to cognition. <i>Wiley Interdisciplinary Reviews: Cognitive Science</i> , <b>2014</b> , 5, 233-45	4.5	50

37	Contextual and perceptual brain processes underlying moral cognition: a quantitative meta-analysis of moral reasoning and moral emotions. <i>PLoS ONE</i> , <b>2014</b> , 9, e87427	3.7	46
36	Imagining the future: evidence for a hippocampal contribution to constructive processing. <i>Hippocampus</i> , <b>2013</b> , 23, 1150-61	3.5	58
35	Intrinsic architecture underlying the relations among the default, dorsal attention, and frontoparietal control networks of the human brain. <i>Journal of Cognitive Neuroscience</i> , <b>2013</b> , 25, 74-86	3.1	453
34	How to produce personality neuroscience research with high statistical power and low additional cost. <i>Cognitive, Affective and Behavioral Neuroscience</i> , <b>2013</b> , 13, 674-85	3.5	51
33	Doing what we imagine: completion rates and frequency attributes of imagined future events one year after prospection. <i>Memory</i> , <b>2013</b> , 21, 458-66	1.8	18
32	Functional brain changes following cognitive and motor skills training: a quantitative meta-analysis. <i>Neurorehabilitation and Neural Repair</i> , <b>2013</b> , 27, 187-99	4.7	64
31	Structural covariance of the default network in healthy and pathological aging. <i>Journal of Neuroscience</i> , <b>2013</b> , 33, 15226-34	6.6	87
30	Examining the role of memory in social cognition. <i>Frontiers in Psychology</i> , <b>2013</b> , 4, 437	3.4	19
29	I remember you: a role for memory in social cognition and the functional neuroanatomy of their interaction. <i>Brain Research</i> , <b>2012</b> , 1428, 43-50	3.7	108
28	The future of memory: remembering, imagining, and the brain. <i>Neuron</i> , <b>2012</b> , 76, 677-94	13.9	855
27	Neurocircuitry models of posttraumatic stress disorder and beyond: a meta-analysis of functional neuroimaging studies. <i>Neuroscience and Biobehavioral Reviews</i> , <b>2012</b> , 36, 2130-42	9	367
26	Executive functions and neurocognitive aging: dissociable patterns of brain activity. <i>Neurobiology of Aging</i> , <b>2012</b> , 33, 826.e1-13	5.6	179
25	The fallacy of a "task-negative" network. <i>Frontiers in Psychology</i> , <b>2012</b> , 3, 145	3.4	202
24	Default network modulation and large-scale network interactivity in healthy young and old adults. <i>Cerebral Cortex</i> , <b>2012</b> , 22, 2610-21	5.1	148
23	Solving future problems: default network and executive activity associated with goal-directed mental simulations. <i>NeuroImage</i> , <b>2011</b> , 55, 1816-24	7.9	151
22	Altered empathic responding in major depressive disorder: relation to symptom severity, illness burden, and psychosocial outcome. <i>Psychiatry Research</i> , <b>2011</b> , 188, 231-6	9.9	89
21	Relationship between occupation attributes and brain metabolism in frontotemporal dementia. <i>Neuropsychologia</i> , <b>2011</b> , 49, 3699-703	3.2	29
20	Patterns of brain activity supporting autobiographical memory, prospection, and theory of mind, and their relationship to the default mode network. <i>Journal of Cognitive Neuroscience</i> , <b>2010</b> , 22, 1112-23 <sup>3.1</sup>		678

19	Default network activity, coupled with the frontoparietal control network, supports goal-directed cognition. <i>NeuroImage</i> , <b>2010</b> , 53, 303-17	7.9	781
18	Occupation attributes relate to location of atrophy in frontotemporal lobar degeneration. <i>Neuropsychologia</i> , <b>2010</b> , 48, 3634-41	3.2	16
17	Reliable differences in brain activity between young and old adults: a quantitative meta-analysis across multiple cognitive domains. <i>Neuroscience and Biobehavioral Reviews</i> , <b>2010</b> , 34, 1178-94	9	234
16	The common neural basis of autobiographical memory, prospection, navigation, theory of mind, and the default mode: a quantitative meta-analysis. <i>Journal of Cognitive Neuroscience</i> , <b>2009</b> , 21, 489-510 <sup>3.1</sup>		1585
15	The Toronto Empathy Questionnaire: scale development and initial validation of a factor-analytic solution to multiple empathy measures. <i>Journal of Personality Assessment</i> , <b>2009</b> , 91, 62-71	2.8	405
14	The temporal distribution of past and future autobiographical events across the lifespan. <i>Memory and Cognition</i> , <b>2006</b> , 34, 1644-51	2.2	187
13	Mapping neurotransmitter systems to the structural and functional organization of the human neocortex		3
12	Le Petit Prince: A multilingual fMRI corpus using ecological stimuli		2
11	Basal forebrain volume reliably predicts the cortical spread of Alzheimer's degeneration		2
10	Mapping neurotransmitter systems to the structural and functional organization of the human neocortex		4
9	Anticorrelation between default and dorsal attention networks varies across default subsystems and cognitive states		1
8	Structural covariance networks across the lifespan, from 6-94 years of age		1
7	Heterogeneity Within the Frontoparietal Control Network and its Relationship to the Default and Dorsal Attention Networks		6
6	Serotonergic psychedelic drugs LSD and psilocybin reduce the hierarchical differentiation of unimodal and transmodal cortex		8
5	Heritability of individualized cortical network topography		2
4	Hidden population modes in social brain morphology: Its parts are more than its sum		1
3	Functional architecture of the aging brain		2
2	Individual-Specific Areal-Level Parcellations Improve Functional Connectivity Prediction of Behavior		6



1 Time-resolved structure-function coupling in brain networks

2