James M Shine

List of Publications by Citations

152 papers	5,587 citations	44 h-index	70 g-index
178 ext. papers	7,502 ext. citations	6.4 avg, IF	6.35 L-index

#	Paper	IF	Citations
152	The Dynamics of Functional Brain Networks: Integrated Network States during Cognitive Task Performance. *Neuron*, **2016**, 92, 544-554	13.9	396
151	Long-term neural and physiological phenotyping of a single human. *Nature Communications*, **2015**, 6, 8885	17.4	237
150	Human cognition involves the dynamic integration of neural activity and neuromodulatory systems. *Nature Neuroscience*, **2019**, 22, 289-296	25.5	182
149	Freezing of gait in Parkinson's disease is associated with functional decoupling between the cognitive control network and the basal ganglia. *Brain*, **2013**, 136, 3671-81	11.2	170
148	Questions and controversies in the study of time-varying functional connectivity in resting fMRI. *Network Neuroscience*, **2020**, 4, 30-69	5.6	159
147	Exploring the cortical and subcortical functional magnetic resonance imaging changes associated with freezing in Parkinson's disease. *Brain*, **2013**, 136, 1204-15	11.2	156
146	The specific contributions of set-shifting to freezing of gait in Parkinson's disease. *Movement Disorders*, **2010**, 25, 1000-4	7	151
145	Autonomous identification of freezing of gait in Parkinson's disease from lower-body segmental accelerometry. *Journal of NeuroEngineering and Rehabilitation*, **2013**, 10, 19	5.3	121
144	Temporal metastates are associated with differential patterns of time-resolved connectivity, network topology, and attention. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, 9888-91	11.5	119
143	Tricks of the mind: Visual hallucinations as disorders of attention. *Progress in Neurobiology*, **2014**, 116, 58-65	10.9	117
142	Principles of dynamic network reconfiguration across diverse brain states. *NeuroImage*, **2018**, 180, 396-405	7.9	106
141	Estimation of dynamic functional connectivity using Multiplication of Temporal Derivatives. *NeuroImage*, **2015**, 122, 399-407	7.9	104
140	Predictions penetrate perception: Converging insights from brain, behaviour and disorder. *Consciousness and Cognition*, **2017**, 47, 63-74	2.6	97
139	Differential neural activation patterns in patients with Parkinson's disease and freezing of gait in response to concurrent cognitive and motor load. *PLoS ONE*, **2013**, 8, e52602	3.7	86
138	Subcortical contributions to large-scale network communication. *Neuroscience and Biobehavioral Reviews*, **2016**, 71, 313-322	9	83
137	The role of dysfunctional attentional control networks in visual misperceptions in Parkinson's disease. *Human Brain Mapping*, **2014**, 35, 2206-19	5.9	83
136	Auditory Hallucinations and the Brain's Resting-State Networks: Findings and Methodological Observations. *Schizophrenia Bulletin*, **2016**, 42, 1110-23	1.3	81

135	The major impact of freezing of gait on quality of life in Parkinson's disease. *Journal of Neurology*, **2015**, 262, 108-15	5.5	80
134	The Next Step: A Common Neural Mechanism for Freezing of Gait. *Neuroscientist*, **2016**, 22, 72-82	7.6	80
133	The functional network signature of heterogeneity in freezing of gait. *Brain*, **2018**, 141, 1145-1160	11.2	76
132	Assessing the utility of Freezing of Gait Questionnaires in Parkinson's Disease. *Parkinsonism and Related Disorders*, **2012**, 18, 25-9	3.6	76
131	Cerebellar atrophy in Parkinson's disease and its implication for network connectivity. *Brain*, **2016**, 139, 845-55	11.2	73
130	Freezing beyond gait in Parkinson's disease: a review of current neurobehavioral evidence. *Neuroscience and Biobehavioral Reviews*, **2014**, 43, 213-27	9	72
129	The modulation of neural gain facilitates a transition between functional segregation and integration in the brain. *ELife*, **2018**, 7,	8.9	72
128	A comparison of clinical and objective measures of freezing of gait in Parkinson's disease. *Parkinsonism and Related Disorders*, **2012**, 18, 572-7	3.6	71
127	Abnormal patterns of theta frequency oscillations during the temporal evolution of freezing of gait in Parkinson's disease. *Clinical Neurophysiology*, **2014**, 125, 569-76	4.3	69
126	Intracranial Electrophysiology Reveals Reproducible Intrinsic Functional Connectivity within Human Brain Networks. *Journal of Neuroscience*, **2018**, 38, 4230-4242	6.6	66
125	The role of frontostriatal impairment in freezing of gait in Parkinson's disease. *Frontiers in Systems Neuroscience*, **2013**, 7, 61	3.5	62
124	Dopamine depletion impairs gait automaticity by altering cortico-striatal and cerebellar processing in Parkinson's disease. *NeuroImage*, **2017**, 152, 207-220	7.9	60
123	Analysis and Prediction of the Freezing of Gait Using EEG Brain Dynamics. *IEEE Transactions on Neural Systems and Rehabilitation Engineering*, **2015**, 23, 887-96	4.8	59
122	The pathophysiological mechanisms underlying freezing of gait in Parkinson's Disease. *Journal of Clinical Neuroscience*, **2011**, 18, 1154-7	2.2	58
121	Dysfunctional Limbic Circuitry Underlying Freezing of Gait in Parkinson's Disease. *Neuroscience*, **2018**, 374, 119-132	3.9	57
120	Neuromodulatory Influences on Integration and Segregation in the Brain. *Trends in Cognitive Sciences*, **2019**, 23, 572-583	14	56
119	Dopaminergic basis for impairments in functional connectivity across subdivisions of the striatum in Parkinson's disease. *Human Brain Mapping*, **2015**, 36, 1278-91	5.9	54
118	Fair play: social norm compliance failures in behavioural variant frontotemporal dementia. *Brain*, **2016**, 139, 204-16	11.2	54

117	Freezing of gait: Promising avenues for future treatment. *Parkinsonism and Related Disorders*, **2018**, 52, 7-16	3.6	53
116	Shaped by our thoughts--a new task to assess spontaneous cognition and its associated neural correlates in the default network. *Brain and Cognition*, **2015**, 93, 1-10	2.7	52
115	Deficits in episodic memory retrieval reveal impaired default mode network connectivity in amnestic mild cognitive impairment. *NeuroImage: Clinical*, **2014**, 4, 473-80	5.3	52
114	Attentional set-shifting deficits correlate with the severity of freezing of gait in Parkinson's disease. *Parkinsonism and Related Disorders*, **2013**, 19, 388-90	3.6	50
113	Imagine that: elevated sensory strength of mental imagery in individuals with Parkinson's disease and visual hallucinations. *Proceedings of the Royal Society B: Biological Sciences*, **2015**, 282, 20142047	4.4	49
112	Using virtual reality to explore the role of conflict resolution and environmental salience in freezing of gait in Parkinson's disease. *Parkinsonism and Related Disorders*, **2013**, 19, 937-42	3.6	47
111	Visual hallucinations in Parkinson's disease: theoretical models. *Movement Disorders*, **2014**, 29, 1591-8	7	47
110	The detection of Freezing of Gait in Parkinson's disease patients using EEG signals based on Wavelet decomposition. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*,	0.9	46
109	Abnormal connectivity between the default mode and the visual system underlies the manifestation of visual hallucinations in Parkinson's disease: a task-based fMRI study. *Npj Parkinson's Disease*, **2015**, 1, 15003	9.7	44
108	Cognitive training for freezing of gait in Parkinson's disease: a randomized controlled trial. *Npj Parkinson's Disease*, **2018**, 4, 15	9.7	43
107	Modeling freezing of gait in Parkinson's disease with a virtual reality paradigm. *Gait and Posture*, **2013**, 38, 104-8	2.6	42
106	Evidence for subtypes of freezing of gait in Parkinson's disease. *Movement Disorders*, **2018**, 33, 1174-1178	7	42
105	Hippocampal atrophy and intrinsic brain network dysfunction relate to alterations in mind wandering in neurodegeneration. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 3316-3321	11.5	39
104	The Low-Dimensional Neural Architecture of Cognitive Complexity Is Related to Activity in Medial Thalamic Nuclei. *Neuron*, **2019**, 104, 849-855.e3	13.9	38
103	Neuropsychological functioning in Parkinson's disease: differential relationships with self-reported sleep-wake disturbances. *Movement Disorders*, **2011**, 26, 1537-41	7	38
102	Catecholaminergic manipulation alters dynamic network topology across cognitive states. *Network Neuroscience*, **2018**, 2, 381-396	5.6	38
101	Anterior cingulate integrity: executive and neuropsychiatric features in Parkinson's disease. *Movement Disorders*, **2012**, 27, 1262-7	7	37
100	Brain activation underlying turning in Parkinson's disease patients with and without freezing of gait: a virtual reality fMRI study. *Npj Parkinson's Disease*, **2015**, 1, 15020	9.7	36

99	Freezing of gait in Parkinson's disease: current treatments and the potential role for cognitive training. *Restorative Neurology and Neuroscience*, **2014**, 32, 411-22	2.8	35
98	Investigating visual misperceptions in Parkinson's disease: a novel behavioral paradigm. *Movement Disorders*, **2012**, 27, 500-5	7	32
97	Utilising functional MRI (fMRI) to explore the freezing phenomenon in Parkinson's disease. *Journal of Clinical Neuroscience*, **2011**, 18, 807-10	2.2	31
96	Visual Hallucinations Are Characterized by Impaired Sensory Evidence Accumulation: Insights From Hierarchical Drift Diffusion Modeling in Parkinson's Disease. *Biological Psychiatry: Cognitive Neuroscience and Neuroimaging*, **2017**, 2, 680-688	3.4	29
95	Antisaccade errors reveal cognitive control deficits in Parkinson's disease with freezing of gait. *Journal of Neurology*, **2015**, 262, 2745-54	5.5	28
94	The thalamus integrates the macrosystems of the brain to facilitate complex, adaptive brain network dynamics. *Progress in Neurobiology*, **2021**, 199, 101951	10.9	28
93	Variability of Stepping during a Virtual Reality Paradigm in Parkinson's Disease Patients with and without Freezing of Gait. *PLoS ONE*, **2013**, 8, e66718	3.7	27
92	Identifying the neural correlates of doorway freezing in Parkinson's disease. *Human Brain Mapping*, **2019**, 40, 2055-2064	5.9	26
91	Impaired cognitive control in Parkinson's disease patients with freezing of gait in response to cognitive load. *Journal of Neural Transmission*, **2015**, 122, 653-60	4.3	25
90	Transitions in information processing dynamics at the whole-brain network level are driven by alterations in neural gain. *PLoS Computational Biology*, **2019**, 15, e1006957	5	24
89	How well do caregivers detect mild cognitive change in Parkinson's disease?. *Movement Disorders*, **2011**, 26, 161-4	7	23
88	Dopamine depletion alters macroscopic network dynamics in Parkinson's disease. *Brain*, **2019**, 142, 1024-1034	11.2	22
87	Alterations in white matter network topology contribute to freezing of gait in Parkinson's disease. *Journal of Neurology*, **2018**, 265, 1353-1364	5.5	22
86	Neuropsychiatric symptoms in Parkinson's disease: fronto-striatal atrophy contributions. *Parkinsonism and Related Disorders*, **2014**, 20, 867-72	3.6	22
85	Early phenotypic differences between Parkinson's disease patients with and without freezing of gait. *Parkinsonism and Related Disorders*, **2014**, 20, 604-7	3.6	22
84	Clinical assessment of freezing of gait in Parkinson's disease from computer-generated animation. *Gait and Posture*, **2013**, 38, 326-9	2.6	22
83	Cognitive fluctuations in Lewy body dementia: towards a pathophysiological framework. *Brain*, **2020**, 143, 31-46	11.2	20
82	Investigating motor initiation and inhibition deficits in patients with Parkinson's disease and freezing of gait using a virtual reality paradigm. *Neuroscience*, **2016**, 337, 153-162	3.9	19

81	Freezing of Gait and its Associations in the Early and Advanced Clinical Motor Stages of Parkinson's Disease: A Cross-Sectional Study. *Journal of Parkinson's Disease*, **2015**, 5, 881-91	5.3	19
80	Core and matrix thalamic sub-populations relate to spatio-temporal cortical connectivity gradients. *NeuroImage*, **2020**, 222, 117224	7.9	19
79	Topological Properties of Neuromorphic Nanowire Networks. *Frontiers in Neuroscience*, **2020**, 14, 184	5.1	18
78	Sleep disturbance in mild cognitive impairment is associated with alterations in the brain's default mode network. *Behavioral Neuroscience*, **2016**, 130, 305-15	2.1	18
77	Hitting the brakes: pathological subthalamic nucleus activity in Parkinson's disease gait freezing. *Brain*, **2019**, 142, 3906-3916	11.2	18
76	The differential yet concurrent contributions of motor, cognitive and affective disturbance to freezing of gait in Parkinson's disease. *Clinical Neurology and Neurosurgery*, **2013**, 115, 542-5	2	18
75	Synchrony in capture dates suggests cryptic social organization in sea snakes (Emydocephalus annulatus, Hydrophiidae). *Austral Ecology*, **2005**, 30, 805-811	1.5	18
74	Virtual reality walking and dopamine: opening new doorways to understanding freezing of gait in Parkinson's disease. *Journal of the Neurological Sciences*, **2014**, 344, 182-5	3.2	17
73	Distinct Patterns of Temporal and Directional Connectivity among Intrinsic Networks in the Human Brain. *Journal of Neuroscience*, **2017**, 37, 9667-9674	6.6	17
72	The relationships between mild cognitive impairment and phenotype in Parkinson's disease. *Npj Parkinson's Disease*, **2015**, 1, 15015	9.7	17
71	Validation of the Psychosis and Hallucinations Questionnaire in Non-demented Patients with Parkinson's Disease. *Movement Disorders Clinical Practice*, **2015**, 2, 175-181	2.2	17
70	Functional Connectivity in the Default Mode Network is Reduced in Association with Nocturnal Awakening in Mild Cognitive Impairment. *Journal of Alzheimer's Disease*, **2017**, 56, 1373-1384	4.3	16
69	Estimating Large-Scale Network Convergence in the Human Functional Connectome. *Brain Connectivity*, **2015**, 5, 565-74	2.7	16
68	Computational models link cellular mechanisms of neuromodulation to large-scale neural dynamics. *Nature Neuroscience*, **2021**, 24, 765-776	25.5	16
67	Dysfunction in attentional processing in patients with Parkinson's disease and visual hallucinations. *Journal of Neural Transmission*, **2016**, 123, 503-7	4.3	16
66	Mind-wandering in Parkinson's disease hallucinations reflects primary visual and default network coupling. *Cortex*, **2020**, 125, 233-245	3.8	15
65	Using EEG spatial correlation, cross frequency energy, and wavelet coefficients for the prediction of Freezing of Gait in Parkinson's Disease patients. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2013**, 2013, 4263-6	0.9	15
64	An EEG study of turning freeze in Parkinson's disease patients: The alteration of brain dynamic on the motor and visual cortex. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2015**, 2015, 6618-21	0.9	14

63	On the nature of time-varying functional connectivity in resting fMRI		14
62	Current sleep disturbance in older people with a lifetime history of depression is associated with increased connectivity in the Default Mode Network. *Journal of Affective Disorders*, **2018**, 229, 85-94	6.6	12
61	Delegation to automaticity: the driving force for cognitive evolution?. *Frontiers in Neuroscience*, **2014**, 8, 90	5.1	12
60	A novel bedside task to tap inhibitory dysfunction and fronto-striatal atrophy in Parkinson's disease. *Parkinsonism and Related Disorders*, **2013**, 19, 827-30	3.6	11
59	Diffuse neural coupling mediates complex network dynamics through the formation of quasi-critical brain states. *Nature Communications*, **2020**, 11, 6337	17.4	11
58	Fronto-striatal gray matter contributions to discrimination learning in Parkinson's disease. *Frontiers in Computational Neuroscience*, **2013**, 7, 180	3.5	10
57	Brainhack: Developing a culture of open, inclusive, community-driven neuroscience. *Neuron*, **2021**, 109, 1769-1775	13.9	10
56	Temporal Characteristics of High-Frequency Lower-Limb Oscillation during Freezing of Gait in Parkinson's Disease. *Parkinson's Disease*, **2014**, 2014, 606427	2.6	9
55	Informant- and Self-Appraisals on the Psychosis and Hallucinations Questionnaire (PsycH-Q) Enhances Detection of Visual Hallucinations in Parkinson's Disease. *Movement Disorders Clinical Practice*, **2018**, 5, 607-613	2.2	9
54	Changes in structural network topology correlate with severity of hallucinatory behavior in Parkinson's disease. *Network Neuroscience*, **2019**, 3, 521-538	5.6	8
53	Neural correlates of emotional valence processing in Parkinson's disease: dysfunction in the subcortex. *Brain Imaging and Behavior*, **2019**, 13, 189-199	4.1	8
52	Frontoparietal Activity Interacts With Task-Evoked Changes in Functional Connectivity. *Cerebral Cortex*, **2019**, 29, 802-813	5.1	8
51	The ascending arousal system shapes neural dynamics to mediate awareness of cognitive states. *Nature Communications*, **2021**, 12, 6016	17.4	7
50	The dynamic basis of cognition: an integrative core under the control of the ascending neuromodulatory system		7
49	Convergent evidence for top-down effects from the "predictive brain". *Behavioral and Brain Sciences*, **2016**, 39, e254	0.9	7
48	Assessing the significance of directed and multivariate measures of linear dependence between time series. *Physical Review Research*, **2021**, 3,	3.9	7
47	Time-varying nodal measures with temporal community structure: A cautionary note to avoid misinterpretation. *Human Brain Mapping*, **2020**, 41, 2347-2356	5.9	6
46	Hallucinogenic mechanisms: pathological and pharmacological insights **2014**, 119-149		6

45	Comparison of Locus Coeruleus Pathology with Nigral and Forebrain Pathology in Parkinson's Disease. *Movement Disorders*, **2021**, 36, 2085-2093	7	6
44	Retrospective Neuropsychological Profile of Patients With Parkinson Disease Prior to Developing Visual Hallucinations. *Journal of Geriatric Psychiatry and Neurology*, **2017**, 30, 90-95	3.8	5
43	What matters to people with Parkinson's disease living in Australia?. *Journal of Clinical Neuroscience* , **2015**, 22, 338-41	2.2	5
42	The Neural Signature of Impaired Dual-Tasking in Idiopathic Rapid Eye Movement Sleep Behavior Disorder Patients. *Movement Disorders*, **2020**, 35, 1596-1606	7	5
41	Reducing the influence of intramodular connectivity in participation coefficient. *Network Neuroscience*, **2020**, 4, 416-431	5.6	5
40	Core and Matrix Thalamic Sub-Populations Relate to Spatio-Temporal Cortical Connectivity Gradients		5
39	Neuromodulation of the mind-wandering brain state: the interaction between neuromodulatory tone, sharp wave-ripples and spontaneous thought. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **2021**, 376, 20190699	5.8	5
38	Prediction of freezing of gait using analysis of brain effective connectivity. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2014**, 2014, 4119-22	0.9	4
37	Neuropsychological evidence of multi-domain network hubs in the human thalamus. *ELife*, **2021**, 10,	8.9	4
36	Mapping neurotransmitter systems to the structural and functional organization of the human neocortex		4
35	Staircase climbing is not solely a visual compensation strategy to alleviate freezing of gait in Parkinson's disease. *Journal of Neurology*, **2017**, 264, 174-176	5.5	3
34	Mapping neurotransmitter systems to the structural and functional organization of the human neocortex		3
33	Hippocampal atrophy and intrinsic brain network dysfunction relate to alterations in mind wandering in neurodegeneration		3
32	Nonlinear Reconfiguration of Network Edges, Topology and Information Content During an Artifical Learning Task		3
31	Nocturnal Hypoxemia Is Associated with Altered Parahippocampal Functional Brain Connectivity in Older Adults at Risk for Dementia. *Journal of Alzheimer's Disease*, **2020**, 73, 571-584	4.3	3
30	A data resource from concurrent intracranial stimulation and functional MRI of the human brain. *Scientific Data*, **2020**, 7, 258	8.2	3
29	The Human Intraparietal Sulcus Modulates Task-Evoked Functional Connectivity. *Cerebral Cortex*, **2020**, 30, 875-887	5.1	3
28	Modularity and multitasking in neuro-memristive reservoir networks. *Neuromorphic Computing and Engineering*, **2021**, 1, 014003		3

27	Using Virtual Reality to Advance the Understanding and Rehabilitation of Gait Impairments in Parkinson's Disease **2017**, 397-416		2
26	Does dominant pedunculopontine nucleus exist? Probably not. *Brain*, **2015**, 138, e346	11.2	2
25	The identification of temporal communities through trajectory clustering correlates with single-trial behavioural fluctuations in neuroimaging data		2
24	Time-varying nodal measures with temporal community structure: a cautionary note to avoid misinterpretation		2
23	025 The neural correlates of doorway freezing in parkinson's disease. *Journal of Neurology, Neurosurgery and Psychiatry*, **2018**, 89, A10.3-A11	5.5	2
22	The ascending arousal system promotes optimal performance through mesoscale network integration in a visuospatial attentional task.. *Network Neuroscience*, **2021**, 5, 890-910	5.6	2
21	Striatal dysfunction during dual-task performance in Parkinson's disease. *Brain*, **2017**, 140, 1174-1177	11.2	1
20	Dopamine and Functional Connectivity in Patients With Parkinson's Disease and Visual Hallucinations. *Movement Disorders*, **2020**, 35, 704-705	7	1
19	Clarifying the role of neural networks in complex hallucinatory phenomena. *Journal of Neuroscience* , **2014**, 34, 11865-7	6.6	1
18	Focal neural perturbations reshape low-dimensional trajectories of brain activity supporting cognitive performance.. *Nature Communications*, **2022**, 13, 4	17.4	1
17	It's about time: Linking dynamical systems with human neuroimaging to understand the brain. *Network Neuroscience*,1-54	5.6	1
16	Narrow doorways alter brain connectivity and step patterns in isolated REM sleep behaviour disorder.. *NeuroImage: Clinical*, **2022**, 33, 102958	5.3	1
15	Transitions in brain-network level information processing dynamics are driven by alterations in neural gain		1
14	Catecholaminergic Manipulation Alters Dynamic Network Topology Across Behavioral States		1
13	Diffuse neural coupling mediates complex network dynamics through the formation of quasi-critical brain states		1
12	Reducing module size bias of participation coefficient		1
11	The ascending arousal system shapes low-dimensional neural dynamics to mediate awareness of intrinsic cognitive states		1
10	Anterior-posterior electrophysiological activity characterizes Parkinsonian visual misperceptions. *Neurology and Clinical Neuroscience*, **2021**, 9, 312-318	0.3	1

9	Computational specificity in the human brain. *Behavioral and Brain Sciences*, **2016**, 39, e131	0.9	1
8	Precision dynamical mapping using topological data analysis reveals a unique hub-like transition state at rest		1
7	Brain state kinematics and the trajectory of task performance improvement. *NeuroImage*, **2021**, 243, 118510	7.9	1
6	Shaking with fear: the role of noradrenaline in modulating resting tremor. *Brain*, **2020**, 143, 1288-1291	11.2	0
5	Dynamic network impairments underlie cognitive fluctuations in Lewy body dementia.. *Npj Parkinson's Disease*, **2022**, 8, 16	9.7	0
4	Nonlinear reconfiguration of network edges, topology and information content during an artificial learning task. *Brain Informatics*, **2021**, 8, 26	5.9	0
3	The 'Cognitions' index of the Parkinson's Disease Questionnaire-39 relates to sleep disturbance and hallucinations. *Parkinsonism and Related Disorders*, **2015**, 21, 349-50	3.6	
2	Navigating a Complex Landscape: Using Transcriptomics to Parcellate the Human Cortex.. *Biological Psychiatry: Cognitive Neuroscience and Neuroimaging*, **2022**, 7, 3-4	3.4	
1	Resting-state functional MRI-based connectivity **2022**, 207-222		