David J Sharp

List of Publications by Year
in descending order

91 papers	12,163 citations	41344 49 h-index	45317 90 g-index
95 all docs	95 docs citations	95 times ranked	15399 citing authors

#	Article	IF	Citations
1	The role of the posterior cingulate cortex in cognition and disease. Brain, 2014, 137, 12-32.	7.6	1,721
2	Inflammation after trauma: Microglial activation and traumatic brain injury. Annals of Neurology, 2011, 70, 374-383.	5.3	803
3	Fractionating the Default Mode Network: Distinct Contributions of the Ventral and Dorsal Posterior Cingulate Cortex to Cognitive Control. Journal of Neuroscience, 2011, 31, 3217-3224.	3.6	668
4	White matter damage and cognitive impairment after traumatic brain injury. Brain, 2011, 134, 449-463.	7.6	541
5	Network dysfunction after traumatic brain injury. Nature Reviews Neurology, 2014, 10, 156-166.	10.1	528
6	Salience network integrity predicts default mode network function after traumatic brain injury. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 4690-4695.	7.1	523
7	Echoes of the Brain within the Posterior Cingulate Cortex. Journal of Neuroscience, 2012, 32, 215-222.	3.6	520
8	Distinct frontal systems for response inhibition, attentional capture, and error processing. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 6106-6111.	7.1	464
9	Default Mode Network Connectivity Predicts Sustained Attention Deficits after Traumatic Brain Injury. Journal of Neuroscience, 2011, 31, 13442-13451.	3.6	401
10	Default mode network functional and structural connectivity after traumatic brain injury. Brain, 2011, 134, 2233-2247.	7.6	398
11	Prediction of brain age suggests accelerated atrophy after traumatic brain injury. Annals of Neurology, 2015, 77, 571-581.	5.3	349
12	Computational modelling of traumatic brain injury predicts the location of chronic traumatic encephalopathy pathology. Brain, 2017, 140, 333-343.	7.6	211
13	Increased brain-predicted aging in treated HIV disease. Neurology, 2017, 88, 1349-1357.	1.1	200
14	Damage to the Salience Network and Interactions with the Default Mode Network. Journal of Neuroscience, 2014, 34, 10798-10807.	3.6	189
15	Long-Term Outcomes Associated with Traumatic Brain Injury in Childhood and Adolescence: A Nationwide Swedish Cohort Study of a Wide Range of Medical and Social Outcomes. PLoS Medicine, 2016, 13, e1002103.	8.4	188
16	Understanding neurodegeneration after traumatic brain injury: from mechanisms to clinical trials in dementia. Journal of Neurology, Neurosurgery and Psychiatry, 2019, 90, 1221-1233.	1.9	183
17	Contrasting network and modular perspectives on inhibitory control. Trends in Cognitive Sciences, 2015, 19, 445-452.	7.8	179
18	The Control of Global Brain Dynamics: Opposing Actions of Frontoparietal Control and Default Mode Networks on Attention. Journal of Neuroscience, 2014, 34, 451-461.	3.6	174

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19	Disconnection of network hubs and cognitive impairment after traumatic brain injury. Brain, 2015, 138, 1696-1709.	7.6	172
20	Traumatic brain injury impairs small-world topology. Neurology, 2013, 80, 1826-1833.	1.1	168
21	Retrieving meaning after temporal lobe infarction: The role of the basal language area. Annals of Neurology, 2004, 56, 836-846.	5.3	151
22	Cognitive Flexibility through Metastable Neural Dynamics Is Disrupted by Damage to the Structural Connectome. Journal of Neuroscience, 2015, 35, 9050-9063.	3.6	148
23	Externally induced frontoparietal synchronization modulates network dynamics and enhances working memory performance. ELife, 2017, 6, .	6.0	147
24	Concussion is confusing us all. Practical Neurology, 2015, 15, 172-186.	1.1	145
25	Minocycline reduces chronic microglial activation after brain trauma but increases neurodegeneration. Brain, 2018, 141, 459-471.	7.6	143
26	Investigating white matter injury after mild traumatic brain injury. Current Opinion in Neurology, 2011, 24, 558-563.	3.6	117
27	Amyloid pathology and axonal injury after brain trauma. Neurology, 2016, 86, 821-828.	1.1	116
28	Spatial patterns of progressive brain volume loss after moderate-severe traumatic brain injury. Brain, 2018, 141, 822-836.	7.6	111
29	Brain state and polarity dependent modulation of brain networks by transcranial direct current stimulation. Human Brain Mapping, 2019, 40, 904-915.	3.6	108
30	Hearables: Multimodal physiological in-ear sensing. Scientific Reports, 2017, 7, 6948.	3.3	107
31	The neural basis of impaired self-awareness after traumatic brain injury. Brain, 2014, 137, 586-597.	7.6	102
32	Regional changes in thalamic shape and volume with increasing age. NeuroImage, 2012, 63, 1134-1142.	4.2	100
33	Individual prediction of white matter injury following traumatic brain injury. Annals of Neurology, 2013, 73, 489-499.	5.3	79
34	The Neuroanatomical Correlates of Training-Related Perceptuo-Reflex Uncoupling in Dancers. Cerebral Cortex, 2015, 25, 554-562.	2.9	78
35	Axonal marker neurofilament light predicts long-term outcomes and progressive neurodegeneration after traumatic brain injury. Science Translational Medicine, 2021, 13, eabg9922.	12.4	74
36	Catecholamines and cognition after traumatic brain injury. Brain, 2016, 139, 2345-2371.	7.6	73

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37	Cascades and Cognitive State: Focused Attention Incurs Subcritical Dynamics. Journal of Neuroscience, 2015, 35, 4626-4634.	3.6	71
38	Cortical Entropy, Mutual Information and Scale-Free Dynamics in Waking Mice. Cerebral Cortex, 2016, 26, 3945-3952.	2.9	71
39	Kinetic analysis of the translocator protein positron emission tomography ligand [18F]GE-180 in the human brain. European Journal of Nuclear Medicine and Molecular Imaging, 2016, 43, 2201-2210.	6.4	70
40	Diffuse axonal injury predicts neurodegeneration after moderateâ€"severe traumatic brain injury. Brain, 2020, 143, 3685-3698.	7.6	69
41	Disconnection between the default mode network and medial temporal lobes in post-traumatic amnesia. Brain, 2016, 139, 3137-3150.	7.6	66
42	Detecting axonal injury in individual patients after traumatic brain injury. Brain, 2021, 144, 92-113.	7.6	64
43	Increased frontoparietal integration after stroke and cognitive recovery. Annals of Neurology, 2010, 68, 753-756.	5.3	60
44	Thalamic inflammation after brain trauma is associated with thalamo-cortical white matter damage. Journal of Neuroinflammation, 2015, 12, 224.	7.2	60
45	The neural response to changing semantic and perceptual complexity during language processing. Human Brain Mapping, 2010, 31, 365-377.	3.6	57
46	Separable networks for top-down attention to auditory non-spatial and visuospatial modalities. NeuroImage, 2013, 74, 77-86.	4.2	56
47	Altered caudate connectivity is associated with executive dysfunction after traumatic brain injury. Brain, 2018, 141, 148-164.	7.6	56
48	In vivo detection of cerebral tau pathology in long-term survivors of traumatic brain injury. Science Translational Medicine, 2019, 11, .	12.4	56
49	The Neural Correlates of Declining Performance with Age: Evidence for Age-Related Changes in Cognitive Control. Cerebral Cortex, 2005, 16, 1739-1749.	2.9	55
50	How can investigation of network function inform rehabilitation after traumatic brain injury?. Current Opinion in Neurology, 2012, 25, 662-669.	3.6	54
51	Dopaminergic abnormalities following traumatic brain injury. Brain, 2018, 141, 797-810.	7.6	53
52	Monitoring and the Controlled Processing of Meaning: Distinct Prefrontal Systems. Cerebral Cortex, 2004, 14, 1-10.	2.9	52
53	Assessing the Severity of Traumatic Brain Injuryâ€"Time for a Change?. Journal of Clinical Medicine, 2021, 10, 148.	2.4	52
54	From biomechanics to pathology: predicting axonal injury from patterns of strain after traumatic brain injury. Brain, 2021, 144, 70-91.	7.6	47

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55	Spatiotemporal Distribution of Î²-Amyloid in Alzheimer Disease Is the Result of Heterogeneous Regional Carrying Capacities. Journal of Nuclear Medicine, 2018, 59, 822-827.	5.0	44
56	Distinct patterns of structural damage underlie working memory and reasoning deficits after traumatic brain injury. Brain, 2020, 143, 1158-1176.	7.6	42
57	A robust method for investigating thalamic white matter tracts after traumatic brain injury. NeuroImage, 2012, 63, 779-788.	4.2	40
58	Vestibular agnosia in traumatic brain injury and its link to imbalance. Brain, 2021, 144, 128-143.	7.6	36
59	Stratifying drug treatment of cognitive impairments after traumatic brain injury using neuroimaging. Brain, 2019, 142, 2367-2379.	7.6	35
60	Lexical retrieval constrained by sound structure: The role of the left inferior frontal gyrus. Brain and Language, 2005, 92, 309-319.	1.6	34
61	Interictal activity is an important contributor to abnormal intrinsic network connectivity in paediatric focal epilepsy. Human Brain Mapping, 2017, 38, 221-236.	3.6	33
62	Prevalence and correlates of vitamin D deficiency in adults after traumatic brain injury. Clinical Endocrinology, 2016, 85, 636-644.	2.4	30
63	Cognitive enhancement with Salience Network electrical stimulation is influenced by network structural connectivity. NeuroImage, 2019, 185, 425-433.	4.2	30
64	A Framework for Inter-Subject Prediction of Functional Connectivity From Structural Networks. IEEE Transactions on Medical Imaging, 2013, 32, 2200-2214.	8.9	29
65	The effect of oppositional parietal transcranial direct current stimulation on lateralized brain functions. European Journal of Neuroscience, 2015, 42, 2904-2914.	2.6	28
66	The traumatic brain injury mitigation effects of a new viscoelastic add-on liner. Scientific Reports, 2019, 9, 3471.	3.3	28
67	Traumatic axonal injury influences the cognitive effect of non-invasive brain stimulation. Brain, 2019, 142, 3280-3293.	7.6	25
68	Spatial Dependencies between Large-Scale Brain Networks. PLoS ONE, 2014, 9, e98500.	2.5	23
69	Parallel systems in the control of speech. Human Brain Mapping, 2014, 35, 1930-1943.	3.6	23
70	Plasma glial fibrillary acidic protein and neurofilament light chain, but not tau, are biomarkers of sports-related mild traumatic brain injury. Brain Communications, 2020, 2, fcaa137.	3.3	22
71	Detection of Glial Fibrillary Acidic Protein in Patient Plasma Using On-Chip Graphene Field-Effect Biosensors, in Comparison with ELISA and Single-Molecule Array. ACS Sensors, 2022, 7, 253-262.	7.8	20
72	Serum insulinâ€like growth factorâ€<scp>I</scp> levels are associated with improved white matter recovery after traumatic brain injury. Annals of Neurology, 2017, 82, 30-43.	5.3	19

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73	White matter abnormalities in active elite adult rugby players. Brain Communications, 2021, 3, fcab133.	3.3	19
74	Abnormal dorsal attention network activation in memory impairment after traumatic brain injury. Brain, 2021, 144, 114-127.	7.6	17
75	Dopamine D2/D3 receptor abnormalities after traumatic brain injury and their relationship to post-traumatic depression. NeuroImage: Clinical, 2019, 24, 101950.	2.7	15
76	Novel Modeling of Task vs. Rest Brain State Predictability Using a Dynamic Time Warping Spectrum: Comparisons and Contrasts with Other Standard Measures of Brain Dynamics. Frontiers in Computational Neuroscience, 2016, 10, 46.	2.1	13
77	Mechanisms of tensile failure of cerebrospinal fluid in blast traumatic brain injury. Extreme Mechanics Letters, 2020, 38, 100739.	4.1	13
78	The relationship between road traffic collision dynamics and traumatic brain injury pathology. Brain Communications, 2022, 4, fcac033.	3.3	12
79	Multicentre longitudinal study of fluid and neuroimaging BIOmarkers of AXonal injury after traumatic brain injury: the BIO-AX-TBI study protocol. BMJ Open, 2020, 10, e042093.	1.9	11
80	Multiscale modelling of cerebrovascular injury reveals the role of vascular anatomy and parenchymal shear stresses. Scientific Reports, 2021, 11, 12927.	3.3	11
81	Distinct dopaminergic abnormalities in traumatic brain injury and Parkinsonâ€™s disease. Journal of Neurology, Neurosurgery and Psychiatry, 2020, 91, 631-637.	1.9	8
82	Traumatic brain injury: a comparison of diffusion and volumetric magnetic resonance imaging measures. Brain Communications, 2021, 3, fcab006.	3.3	8
83	Brain volume abnormalities and clinical outcomes following paediatric traumatic brain injury. Brain, 2022, 145, 2920-2934.	7.6	8
84	A link between frontal white matter integrity and dizziness in cerebral small vessel disease. NeuroImage: Clinical, 2022, 35, 103098.	2.7	8
85	A Finite Element Model of Cerebral Vascular Injury for Predicting Microbleeds Location. Frontiers in Bioengineering and Biotechnology, 2022, 10, 860112.	4.1	7
86	Psychotropic and pain medication use in individuals with traumatic brain injuryâ€"a Swedish total population cohort study of 240 000 persons. Journal of Neurology, Neurosurgery and Psychiatry, 2021, 92, 519-527.	1.9	6
87	The association of traumatic brain injury with rate of progression of cognitive and functional impairment in a population-based cohort of Alzheimer's disease: the Cache County dementia progression study by Gilbert<i>et al</i>. Late effects of traumatic brain injury on dementia progression. International Psychogeriatrics, 2014, 26, 1591-1592.	1.0	5
88	Investigating the interaction between white matter and brain state on tDCS-induced changes in brain network activity. Brain Stimulation, 2021, 14, 1261-1270.	1.6	5
89	Conferences in the time of COVID: notes on organizing and delivering the first Brain Conference. Brain Communications, 2021, 3, fcab142.	3.3	3
90	Cognitive impairment after mild traumatic brain injuryâ€"the value of memory testing. Nature Clinical Practice Neurology, 2008, 4, 420-421.	2.5	1

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91	A Double Dissociation of Distinct Prefrontal Cortical Regions during the Perceptual Modulation of Semantic Decision-Making. Clinical Science, 2003, 104, 38P-38P.	0.0	0