

Timothy Behrens

List of Publications by Citations

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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.

169
papers

59,755
citations

98
h-index

186
g-index

186
ext. papers

72,149
ext. citations

11.9
avg, IF

7.72
L-index

#	Paper	IF	Citations
169	Advances in functional and structural MR image analysis and implementation as FSL. <i>NeuroImage</i> , 2004 , 23 Suppl 1, S208-19	7.9	8876
168	FSL. <i>NeuroImage</i> , 2012 , 62, 782-90	7.9	5752
167	Tract-based spatial statistics: voxelwise analysis of multi-subject diffusion data. <i>NeuroImage</i> , 2006 , 31, 1487-505	7.9	4763
166	The WU-Minn Human Connectome Project: an overview. <i>NeuroImage</i> , 2013 , 80, 62-79	7.9	2585
165	Probabilistic diffusion tractography with multiple fibre orientations: What can we gain?. <i>NeuroImage</i> , 2007 , 34, 144-55	7.9	2514
164	Non-invasive mapping of connections between human thalamus and cortex using diffusion imaging. <i>Nature Neuroscience</i> , 2003 , 6, 750-7	25.5	1817
163	Bayesian analysis of neuroimaging data in FSL. <i>NeuroImage</i> , 2009 , 45, S173-86	7.9	1553
162	The Human Connectome Project: a data acquisition perspective. <i>NeuroImage</i> , 2012 , 62, 2222-31	7.9	1284
161	Learning the value of information in an uncertain world. <i>Nature Neuroscience</i> , 2007 , 10, 1214-21	25.5	1218
160	Multilevel linear modelling for FMRI group analysis using Bayesian inference. <i>NeuroImage</i> , 2004 , 21, 1732-47	7.9	1171
159	Training induces changes in white-matter architecture. <i>Nature Neuroscience</i> , 2009 , 12, 1370-1	25.5	1040
158	Frontal cortex and reward-guided learning and decision-making. <i>Neuron</i> , 2011 , 70, 1054-69	13.9	741
157	Triangulating a cognitive control network using diffusion-weighted magnetic resonance imaging (MRI) and functional MRI. <i>Journal of Neuroscience</i> , 2007 , 27, 3743-52	6.6	738
156	Associative learning of social value. <i>Nature</i> , 2008 , 456, 245-9	50.4	676
155	Optimal decision making and the anterior cingulate cortex. <i>Nature Neuroscience</i> , 2006 , 9, 940-7	25.5	658
154	The evolution of the arcuate fasciculus revealed with comparative DTI. <i>Nature Neuroscience</i> , 2008 , 11, 426-8	25.5	652
153	Choice, uncertainty and value in prefrontal and cingulate cortex. <i>Nature Neuroscience</i> , 2008 , 11, 389-97	25.5	610

152	Anatomically related grey and white matter abnormalities in adolescent-onset schizophrenia. <i>Brain</i> , 2007 , 130, 2375-86	11.2	605
151	Advances in diffusion MRI acquisition and processing in the Human Connectome Project. <i>NeuroImage</i> , 2013 , 80, 125-43	7.9	596
150	Changes in connectivity profiles define functionally distinct regions in human medial frontal cortex. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 13335-40	11.5	564
149	A positive-negative mode of population covariation links brain connectivity, demographics and behavior. <i>Nature Neuroscience</i> , 2015 , 18, 1565-7	25.5	551
148	Pushing spatial and temporal resolution for functional and diffusion MRI in the Human Connectome Project. <i>NeuroImage</i> , 2013 , 80, 80-104	7.9	534
147	Tools of the trade: psychophysiological interactions and functional connectivity. <i>Social Cognitive and Affective Neuroscience</i> , 2012 , 7, 604-9	4	529
146	The Human Connectome Project's neuroimaging approach. <i>Nature Neuroscience</i> , 2016 , 19, 1175-87	25.5	482
145	Acquisition and voxelwise analysis of multi-subject diffusion data with tract-based spatial statistics. <i>Nature Protocols</i> , 2007 , 2, 499-503	18.8	472
144	How green is the grass on the other side? Frontopolar cortex and the evidence in favor of alternative courses of action. <i>Neuron</i> , 2009 , 62, 733-43	13.9	471
143	Functional-anatomical validation and individual variation of diffusion tractography-based segmentation of the human thalamus. <i>Cerebral Cortex</i> , 2005 , 15, 31-9	5.1	459
142	Task-free MRI predicts individual differences in brain activity during task performance. <i>Science</i> , 2016 , 352, 216-20	33.3	432
141	Neural mechanisms of foraging. <i>Science</i> , 2012 , 336, 95-8	33.3	399
140	Diffusion-weighted imaging tractography-based parcellation of the human parietal cortex and comparison with human and macaque resting-state functional connectivity. <i>Journal of Neuroscience</i> , 2011 , 31, 4087-100	6.6	394
139	Contrasting roles for cingulate and orbitofrontal cortex in decisions and social behaviour. <i>Trends in Cognitive Sciences</i> , 2007 , 11, 168-76	14	392
138	Effort-based cost-benefit valuation and the human brain. <i>Journal of Neuroscience</i> , 2009 , 29, 4531-41	6.6	385
137	DTI measures in crossing-fibre areas: increased diffusion anisotropy reveals early white matter alteration in MCI and mild Alzheimer's disease. <i>NeuroImage</i> , 2011 , 55, 880-90	7.9	381
136	Automated probabilistic reconstruction of white-matter pathways in health and disease using an atlas of the underlying anatomy. <i>Frontiers in Neuroinformatics</i> , 2011 , 5, 23	3.9	361
135	The computation of social behavior. <i>Science</i> , 2009 , 324, 1160-4	33.3	342

134	Functional organization of the medial frontal cortex. <i>Current Opinion in Neurobiology</i> , 2007 , 17, 220-7	7.6	340
133	Quantitative investigation of connections of the prefrontal cortex in the human and macaque using probabilistic diffusion tractography. <i>Journal of Neuroscience</i> , 2005 , 25, 8854-66	6.6	340
132	Organizing conceptual knowledge in humans with a gridlike code. <i>Science</i> , 2016 , 352, 1464-1468	33.3	335
131	Double dissociation of value computations in orbitofrontal and anterior cingulate neurons. <i>Nature Neuroscience</i> , 2011 , 14, 1581-9	25.5	312
130	Fast transient networks in spontaneous human brain activity. <i>ELife</i> , 2014 , 3, e01867	8.9	295
129	Mechanisms underlying cortical activity during value-guided choice. <i>Nature Neuroscience</i> , 2012 , 15, 470-6, S1-3	25.5	290
128	Separable learning systems in the macaque brain and the role of orbitofrontal cortex in contingent learning. <i>Neuron</i> , 2010 , 65, 927-39	13.9	285
127	Anatomical and functional connectivity of cytoarchitectonic areas within the human parietal operculum. <i>Journal of Neuroscience</i> , 2010 , 30, 6409-21	6.6	283
126	Diffusion-weighted imaging tractography-based parcellation of the human lateral premotor cortex identifies dorsal and ventral subregions with anatomical and functional specializations. <i>Journal of Neuroscience</i> , 2007 , 27, 10259-69	6.6	275
125	What Is a Cognitive Map? Organizing Knowledge for Flexible Behavior. <i>Neuron</i> , 2018 , 100, 490-509	13.9	270
124	Separate value comparison and learning mechanisms in macaque medial and lateral orbitofrontal cortex. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 20547-52	11.5	249
123	Frontal cortex subregions play distinct roles in choices between actions and stimuli. <i>Journal of Neuroscience</i> , 2008 , 28, 13775-85	6.6	247
122	Value, search, persistence and model updating in anterior cingulate cortex. <i>Nature Neuroscience</i> , 2016 , 19, 1280-5	25.5	237
121	The evolution of prefrontal inputs to the cortico-pontine system: diffusion imaging evidence from Macaque monkeys and humans. <i>Cerebral Cortex</i> , 2006 , 16, 811-8	5.1	236
120	Measuring macroscopic brain connections in vivo. <i>Nature Neuroscience</i> , 2015 , 18, 1546-55	25.5	225
119	Using Diffusion Tractography to Predict Cortical Connection Strength and Distance: A Quantitative Comparison with Tracers in the Monkey. <i>Journal of Neuroscience</i> , 2016 , 36, 6758-70	6.6	225
118	Model-based analysis of multishell diffusion MR data for tractography: how to get over fitting problems. <i>Magnetic Resonance in Medicine</i> , 2012 , 68, 1846-55	4.4	222
117	Between session reproducibility and between subject variability of diffusion MR and tractography measures. <i>NeuroImage</i> , 2006 , 33, 867-77	7.9	219

116	A Bayesian framework for global tractography. <i>NeuroImage</i> , 2007 , 37, 116-29	7.9	215
115	Dissociable effects of surprise and model update in parietal and anterior cingulate cortex. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, E3660-9	11.5	204
114	Connectivity-based functional analysis of dopamine release in the striatum using diffusion-weighted MRI and positron emission tomography. <i>Cerebral Cortex</i> , 2014 , 24, 1165-77	5.1	203
113	Response-selection-related parietal activation during number comparison. <i>Journal of Cognitive Neuroscience</i> , 2004 , 16, 1536-51	3.1	203
112	Diffusion imaging of whole, post-mortem human brains on a clinical MRI scanner. <i>NeuroImage</i> , 2011 , 57, 167-181	7.9	193
111	Constrained linear basis sets for HRF modelling using Variational Bayes. <i>NeuroImage</i> , 2004 , 21, 1748-61	7.9	192
110	Integrity of white matter in the corpus callosum correlates with bimanual co-ordination skills. <i>NeuroImage</i> , 2007 , 36 Suppl 2, T16-21	7.9	187
109	Human connectomics. <i>Current Opinion in Neurobiology</i> , 2012 , 22, 144-53	7.6	183
108	The anatomy of choice: active inference and agency. <i>Frontiers in Human Neuroscience</i> , 2013 , 7, 598	3.3	177
107	Online evaluation of novel choices by simultaneous representation of multiple memories. <i>Nature Neuroscience</i> , 2013 , 16, 1492-8	25.5	175
106	Anxious individuals have difficulty learning the causal statistics of aversive environments. <i>Nature Neuroscience</i> , 2015 , 18, 590-6	25.5	174
105	A tractography analysis of two deep brain stimulation white matter targets for depression. <i>Biological Psychiatry</i> , 2009 , 65, 276-82	7.9	172
104	Just pretty pictures? What diffusion tractography can add in clinical neuroscience. <i>Current Opinion in Neurology</i> , 2006 , 19, 379-85	7.1	172
103	Human and monkey ventral prefrontal fibers use the same organizational principles to reach their targets: tracing versus tractography. <i>Journal of Neuroscience</i> , 2013 , 33, 3190-201	6.6	165
102	An agent independent axis for executed and modeled choice in medial prefrontal cortex. <i>Neuron</i> , 2012 , 75, 1114-21	13.9	165
101	In vivo evidence for the selective subcortical degeneration in Huntington's disease. <i>NeuroImage</i> , 2009 , 46, 958-66	7.9	165
100	Probabilistic diffusion tractography: a potential tool to assess the rate of disease progression in amyotrophic lateral sclerosis. <i>Brain</i> , 2006 , 129, 1859-71	11.2	161
99	Connectivity-based parcellation of human cortex using diffusion MRI: Establishing reproducibility, validity and observer independence in BA 44/45 and SMA/pre-SMA. <i>NeuroImage</i> , 2007 , 34, 204-11	7.9	161

98	Network analysis detects changes in the contralesional hemisphere following stroke. <i>NeuroImage</i> , 2011 , 54, 161-9	7.9	160
97	New approaches for exploring anatomical and functional connectivity in the human brain. <i>Biological Psychiatry</i> , 2004 , 56, 613-9	7.9	160
96	Heritability of fractional anisotropy in human white matter: a comparison of Human Connectome Project and ENIGMA-DTI data. <i>NeuroImage</i> , 2015 , 111, 300-11	7.9	159
95	Spatially constrained hierarchical parcellation of the brain with resting-state fMRI. <i>NeuroImage</i> , 2013 , 76, 313-24	7.9	158
94	Determining anatomical connectivities between cortical and brainstem pain processing regions in humans: a diffusion tensor imaging study in healthy controls. <i>Pain</i> , 2006 , 123, 169-78	8	153
93	The neural network underlying incentive-based learning: implications for interpreting circuit disruptions in psychiatric disorders. <i>Neuron</i> , 2014 , 83, 1019-39	13.9	148
92	The anatomy of choice: dopamine and decision-making. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2014 , 369,	5.8	145
91	Crossing fibres in tract-based spatial statistics. <i>NeuroImage</i> , 2010 , 49, 249-56	7.9	145
90	Topography of connections between human prefrontal cortex and mediodorsal thalamus studied with diffusion tractography. <i>NeuroImage</i> , 2010 , 51, 555-64	7.9	144
89	High resolution diffusion-weighted imaging in fixed human brain using diffusion-weighted steady state free precession. <i>NeuroImage</i> , 2009 , 46, 775-85	7.9	142
88	Multiple signals in anterior cingulate cortex. <i>Current Opinion in Neurobiology</i> , 2016 , 37, 36-43	7.6	140
87	A map of abstract relational knowledge in the human hippocampal-entorhinal cortex. <i>ELife</i> , 2017 , 6,	8.9	139
86	Human Replay Spontaneously Reorganizes Experience. <i>Cell</i> , 2019 , 178, 640-652.e14	56.2	137
85	Counterfactual choice and learning in a neural network centered on human lateral frontopolar cortex. <i>PLoS Biology</i> , 2011 , 9, e1001093	9.7	137
84	Effects of image reconstruction on fiber orientation mapping from multichannel diffusion MRI: reducing the noise floor using SENSE. <i>Magnetic Resonance in Medicine</i> , 2013 , 70, 1682-9	4.4	132
83	Subthalamic deep brain stimulation sweet spots and hyperdirect cortical connectivity in Parkinson's disease. <i>NeuroImage</i> , 2017 , 158, 332-345	7.9	131
82	A mechanism for value-guided choice based on the excitation-inhibition balance in prefrontal cortex. <i>Nature Neuroscience</i> , 2012 , 15, 960-1	25.5	126
81	Ball and rackets: Inferring fiber fanning from diffusion-weighted MRI. <i>NeuroImage</i> , 2012 , 60, 1412-25	7.9	124

80	Adaptive decision making and value in the anterior cingulate cortex. <i>NeuroImage</i> , 2007 , 36 Suppl 2, T142-54	7.9	119
79	Deep and superficial amygdala nuclei projections revealed in vivo by probabilistic tractography. <i>Journal of Neuroscience</i> , 2011 , 31, 618-23	6.6	115
78	Ventromedial prefrontal and anterior cingulate cortex adopt choice and default reference frames during sequential multi-alternative choice. <i>Journal of Neuroscience</i> , 2013 , 33, 2242-53	6.6	114
77	Repetition suppression: a means to index neural representations using BOLD?. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2016 , 371,	5.8	107
76	Investigation of white matter pathology in ALS and PLS using tract-based spatial statistics. <i>Human Brain Mapping</i> , 2009 , 30, 615-24	5.9	107
75	Differences between chimpanzees and bonobos in neural systems supporting social cognition. <i>Social Cognitive and Affective Neuroscience</i> , 2012 , 7, 369-79	4	103
74	Accelerating fibre orientation estimation from diffusion weighted magnetic resonance imaging using GPUs. <i>PLoS ONE</i> , 2013 , 8, e61892	3.7	101
73	Distinct right frontal lobe activation in language processing following left hemisphere injury. <i>Brain</i> , 2006 , 129, 754-66	11.2	101
72	Mixture models with adaptive spatial regularization for segmentation with an application to FMRI data. <i>IEEE Transactions on Medical Imaging</i> , 2005 , 24, 1-11	11.7	99
71	Connectivity derived thalamic segmentation in deep brain stimulation for tremor. <i>NeuroImage: Clinical</i> , 2018 , 18, 130-142	5.3	98
70	Segregated encoding of reward-identity and stimulus-reward associations in human orbitofrontal cortex. <i>Journal of Neuroscience</i> , 2013 , 33, 3202-11	6.6	96
69	Functional asymmetry for auditory processing in human primary auditory cortex. <i>Journal of Neuroscience</i> , 2003 , 23, 11516-22	6.6	96
68	Hierarchical competitions subserving multi-attribute choice. <i>Nature Neuroscience</i> , 2014 , 17, 1613-22	25.5	93
67	The CONNECT project: Combining macro- and micro-structure. <i>NeuroImage</i> , 2013 , 80, 273-82	7.9	93
66	Discordant white matter N-acetylasparatate and diffusion MRI measures suggest that chronic metabolic dysfunction contributes to axonal pathology in multiple sclerosis. <i>NeuroImage</i> , 2007 , 36, 19-27	7.9	88
65	Reliable identification of the auditory thalamus using multi-modal structural analyses. <i>NeuroImage</i> , 2006 , 30, 1112-20	7.9	82
64	Unmasking Latent Inhibitory Connections in Human Cortex to Reveal Dormant Cortical Memories. <i>Neuron</i> , 2016 , 90, 191-203	13.9	81
63	The Tolman-Eichenbaum Machine: Unifying Space and Relational Memory through Generalization in the Hippocampal Formation. <i>Cell</i> , 2020 , 183, 1249-1263.e23	56.2	78

62	Functional Segmentation of the Anterior Limb of the Internal Capsule: Linking White Matter Abnormalities to Specific Connections. <i>Journal of Neuroscience</i> , 2018 , 38, 2106-2117	6.6	78
61	Individual Differences in Premotor Brain Systems Underlie Behavioral Apathy. <i>Cerebral Cortex</i> , 2016 , 26, 807-819	5.1	78
60	Triple dissociation of attention and decision computations across prefrontal cortex. <i>Nature Neuroscience</i> , 2018 , 21, 1471-1481	25.5	78
59	Multiple-subjects connectivity-based parcellation using hierarchical Dirichlet process mixture models. <i>NeuroImage</i> , 2009 , 44, 373-84	7.9	77
58	Addressing a systematic vibration artifact in diffusion-weighted MRI. <i>Human Brain Mapping</i> , 2010 , 31, 193-202	5.9	76
57	Structural and functional brain rewiring clarifies preserved interhemispheric transfer in humans born without the corpus callosum. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 7843-8	11.5	75
56	The topographic connectome. <i>Current Opinion in Neurobiology</i> , 2013 , 23, 207-15	7.6	73
55	Evidence for a vascular contribution to diffusion FMRI at high b value. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 20967-72	11.5	70
54	Giving credit where credit is due: orbitofrontal cortex and valuation in an uncertain world. <i>Annals of the New York Academy of Sciences</i> , 2011 , 1239, 14-24	6.5	69
53	Learning-induced plasticity in medial prefrontal cortex predicts preference malleability. <i>Neuron</i> , 2015 , 85, 418-28	13.9	67
52	Fusion in diffusion MRI for improved fibre orientation estimation: An application to the 3T and 7T data of the Human Connectome Project. <i>NeuroImage</i> , 2016 , 134, 396-409	7.9	67
51	Two Anatomically and Computationally Distinct Learning Signals Predict Changes to Stimulus-Outcome Associations in Hippocampus. <i>Neuron</i> , 2016 , 89, 1343-1354	13.9	66
50	Variational Bayes inference of spatial mixture models for segmentation. <i>IEEE Transactions on Medical Imaging</i> , 2006 , 25, 1380-91	11.7	64
49	Connectivity of an effective hypothalamic surgical target for cluster headache. <i>Journal of Clinical Neuroscience</i> , 2007 , 14, 955-60	2.2	62
48	Lesion probability maps of white matter hyperintensities in elderly individuals: results of the Austrian stroke prevention study. <i>Journal of Neurology</i> , 2006 , 253, 1064-70	5.5	60
47	Dissociable reward and timing signals in human midbrain and ventral striatum. <i>Neuron</i> , 2011 , 72, 654-64	13.9	59
46	Perceptual classification in a rapidly changing environment. <i>Neuron</i> , 2011 , 71, 725-36	13.9	55
45	Inhibitory engrams in perception and memory. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 6666-6674	11.5	53

44	A consistent relationship between local white matter architecture and functional specialisation in medial frontal cortex. <i>NeuroImage</i> , 2006 , 30, 220-7	7.9	52
43	How can a Bayesian approach inform neuroscience?. <i>European Journal of Neuroscience</i> , 2012 , 35, 1169-79	3.5	51
42	Applying FSL to the FIAC data: model-based and model-free analysis of voice and sentence repetition priming. <i>Human Brain Mapping</i> , 2006 , 27, 380-91	5.9	51
41	Capturing the temporal evolution of choice across prefrontal cortex. <i>ELife</i> , 2015 , 4,	8.9	49
40	Connectivity of the human periventricular-periaqueductal gray region. <i>Journal of Neurosurgery</i> , 2005 , 103, 1030-4	3.2	49
39	The danger of systematic bias in group-level fMRI-lag-based causality estimation. <i>NeuroImage</i> , 2012 , 59, 1228-9	7.9	44
38	Reward-Guided Learning with and without Causal Attribution. <i>Neuron</i> , 2016 , 90, 177-90	13.9	43
37	Optimal deep brain stimulation site and target connectivity for chronic cluster headache. <i>Neurology</i> , 2017 , 89, 2083-2091	6.5	42
36	Simultaneous representation of a spectrum of dynamically changing value estimates during decision making. <i>Nature Communications</i> , 2017 , 8, 1942	17.4	42
35	Trial-type dependent frames of reference for value comparison. <i>PLoS Computational Biology</i> , 2013 , 9, e1003225	5	35
34	Neuronal Computation Underlying Inferential Reasoning in Humans and Mice. <i>Cell</i> , 2020 , 183, 228-243.e26	26.2	33
33	Self-navigated multishot echo-planar pulse sequence for high-resolution diffusion-weighted imaging. <i>Magnetic Resonance in Medicine</i> , 2005 , 53, 1474-8	4.4	32
32	What is the most interesting part of the brain?. <i>Trends in Cognitive Sciences</i> , 2013 , 17, 2-4	14	31
31	Dissociable contributions of ventromedial prefrontal and posterior parietal cortex to value-guided choice. <i>NeuroImage</i> , 2014 , 100, 498-506	7.9	29
30	RubiX: combining spatial resolutions for Bayesian inference of crossing fibers in diffusion MRI. <i>IEEE Transactions on Medical Imaging</i> , 2013 , 32, 969-82	11.7	29
29	Improved tractography using asymmetric fibre orientation distributions. <i>NeuroImage</i> , 2017 , 158, 205-218	7.9	29
28	l-Dopa responsiveness is associated with distinctive connectivity patterns in advanced Parkinson's disease. <i>Movement Disorders</i> , 2017 , 32, 874-883	7	28
27	Control of entropy in neural models of environmental state. <i>ELife</i> , 2019 , 8,	8.9	28

26	The Hippocampus and Neocortical Inhibitory Engrams Protect against Memory Interference. <i>Neuron</i> , 2019 , 101, 528-541.e6	13.9	28
25	Brain systems for probabilistic and dynamic prediction: computational specificity and integration. <i>PLoS Biology</i> , 2013 , 11, e1001662	9.7	27
24	Replay bursts in humans coincide with activation of the default mode and parietal alpha networks. <i>Neuron</i> , 2021 , 109, 882-893.e7	13.9	26
23	Episodic memory retrieval success is associated with rapid replay of episode content. <i>Nature Neuroscience</i> , 2020 , 23, 1025-1033	25.5	24
22	Long-range connectomics. <i>Annals of the New York Academy of Sciences</i> , 2013 , 1305, 83-93	6.5	24
21	Shifts in reinforcement signalling while playing slot-machines as a function of prior experience and impulsivity. <i>Translational Psychiatry</i> , 2013 , 3, e213	8.6	22
20	Experience replay is associated with efficient nonlocal learning. <i>Science</i> , 2021 , 372,	33.3	22
19	Transferring structural knowledge across cognitive maps in humans and models. <i>Nature Communications</i> , 2020 , 11, 4783	17.4	14
18	Resting-state fMRI single subject cortical parcellation based on region growing. <i>Lecture Notes in Computer Science</i> , 2012 , 15, 188-95	0.9	12
17	Reassessing VMPFC: full of confidence?. <i>Nature Neuroscience</i> , 2015 , 18, 1064-6	25.5	11
16	Impulsivity and predictive control are associated with suboptimal action-selection and action-value learning in regular gamblers. <i>International Gambling Studies</i> , 2015 , 15, 489-505	1.8	9
15	A gyral coordinate system predictive of fibre orientations. <i>NeuroImage</i> , 2018 , 176, 417-430	7.9	7
14	Combined model-free and model-sensitive reinforcement learning in non-human primates. <i>PLoS Computational Biology</i> , 2020 , 16, e1007944	5	5
13	Author response: Fast transient networks in spontaneous human brain activity 2014 ,		5
12	Entorhinal and ventromedial prefrontal cortices abstract and generalise the structure of reinforcement learning problems		5
11	Temporally delayed linear modelling (TDLM) measures replay in both animals and humans. <i>ELife</i> , 2021 , 10,	8.9	5
10	Measuring Sequences of Representations with Temporally Delayed Linear Modelling		4
9	Replay bursts coincide with activation of the default mode and parietal alpha network		4

8	Experience replay supports non-local learning		4
7	Generative replay for compositional visual understanding in the prefrontal-hippocampal circuit		3
6	How to perfect a chocolate soufflé and other important problems. <i>Neuron</i> , 2011 , 71, 203-5	13.9	2
5	Transferring structural knowledge across cognitive maps in humans and models		2
4	Inhibitory engrams in perception and memory		2
3	Adapting non-invasive human recordings along multiple task-axes shows unfolding of spontaneous and over-trained choice. <i>ELife</i> , 2021 , 10,	8.9	2
2	Neuroscience of Value-Guided Choice 2016 , 554-591		0
1	Reinforcement Learning: Full Glass or Empty - Depends Who You Ask. <i>Current Biology</i> , 2020 , 30, R321-R324		0