

Matthew F S Rushworth

List of Publications by Year in Descending Order

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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.

145
papers

21,864
citations

74
h-index

147
g-index

158
ext. papers

25,248
ext. citations

11
avg, IF

7.06
L-index

#	Paper	IF	Citations
145	Interactions between ventrolateral prefrontal and anterior cingulate cortex during learning and behavioural change. <i>Neuropsychopharmacology</i> , 2022 , 47, 196-210	8.7	5
144	The effect of apathy and compulsivity on planning and stopping in sequential decision-making.. <i>PLoS Biology</i> , 2022 , 20, e3001566	9.7	1
143	A habenula-insular circuit encodes the willingness to act. <i>Nature Communications</i> , 2021 , 12, 6329	17.4	1
142	Identification and disruption of a neural mechanism for accumulating prospective metacognitive information prior to decision-making. <i>Neuron</i> , 2021 , 109, 1396-1408.e7	13.9	9
141	Combining brain perturbation and neuroimaging in non-human primates. <i>NeuroImage</i> , 2021 , 235, 118017	7.9	15
140	Polarity of uncertainty representation during exploration and exploitation in ventromedial prefrontal cortex. <i>Nature Human Behaviour</i> , 2021 , 5, 83-98	12.8	12
139	Activation and disruption of a neural mechanism for novel choice in monkeys. <i>Nature</i> , 2021 , 591, 270-274	50.4	12
138	A Common Space Approach to Comparative Neuroscience. <i>Annual Review of Neuroscience</i> , 2021 , 44, 69-86	8.7	14
137	Causal manipulation of self-other mergence in the dorsomedial prefrontal cortex. <i>Neuron</i> , 2021 , 109, 2353-2361.e11	13.9	3
136	Social prediction modulates activity of macaque superior temporal cortex. <i>Science Advances</i> , 2021 , 7, eabh2392	14.3	5
135	Increasing and decreasing interregional brain coupling increases and decreases oscillatory activity in the human brain. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	1
134	Impact of internal and external factors on prosocial choices in rhesus macaques. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2021 , 376, 20190678	5.8	2
133	Ultrasound modulation of macaque prefrontal cortex selectively alters credit assignment-related activity and behavior.. <i>Science Advances</i> , 2021 , 7, eabg7700	14.3	0
132	Previously Reward-Associated Stimuli Capture Spatial Attention in the Absence of Changes in the Corresponding Sensory Representations as Measured with MEG. <i>Journal of Neuroscience</i> , 2020 , 40, 5033-5050	6.6	12
131	Behavioral flexibility is associated with changes in structure and function distributed across a frontal cortical network in macaques. <i>PLoS Biology</i> , 2020 , 18, e3000605	9.7	10
130	Multiple systems in macaques for tracking prediction errors and other types of surprise. <i>PLoS Biology</i> , 2020 , 18, e3000899	9.7	2
129	Human decisions about when to act originate within a basal forebrain-nigral circuit. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 11799-11810	11.5	4

128	A Basal Forebrain-Cingulate Circuit in Macaques Decides It Is Time to Act. <i>Neuron</i> , 2020 , 105, 370-384.e813,9		26
127	Introducing the PLOS ONE Collection on the neuroscience of reward and decision making. <i>PLoS ONE</i> , 2020 , 15, e0240505	3.7	1
126	Global reward state affects learning and activity in raphe nucleus and anterior insula in monkeys. <i>Nature Communications</i> , 2020 , 11, 3771	17.4	20
125	Differential functional connectivity underlying asymmetric reward-related activity in human and nonhuman primates. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 28452-28462	11.5	9
124	Multiple systems in macaques for tracking prediction errors and other types of surprise 2020 , 18, e3000899		
123	Multiple systems in macaques for tracking prediction errors and other types of surprise 2020 , 18, e3000899		
122	Multiple systems in macaques for tracking prediction errors and other types of surprise 2020 , 18, e3000899		
121	Multiple systems in macaques for tracking prediction errors and other types of surprise 2020 , 18, e3000899		
120	Multiple systems in macaques for tracking prediction errors and other types of surprise 2020 , 18, e3000899		
119	Multiple systems in macaques for tracking prediction errors and other types of surprise 2020 , 18, e3000899		
118	The macaque anterior cingulate cortex translates counterfactual choice value into actual behavioral change. <i>Nature Neuroscience</i> , 2019 , 22, 797-808	25.5	66
117	Manipulation of Subcortical and Deep Cortical Activity in the Primate Brain Using Transcranial Focused Ultrasound Stimulation. <i>Neuron</i> , 2019 , 101, 1109-1116.e5	13.9	115
116	Multiple associative structures created by reinforcement and incidental statistical learning mechanisms. <i>Nature Communications</i> , 2019 , 10, 4835	17.4	13
115	Neural Mechanisms of Social Cognition in Primates. <i>Annual Review of Neuroscience</i> , 2018 , 41, 99-118	17	58
114	Neural mechanisms for learning self and other ownership. <i>Nature Communications</i> , 2018 , 9, 4747	17.4	38
113	An Open Resource for Non-human Primate Imaging. <i>Neuron</i> , 2018 , 100, 61-74.e2	13.9	103
112	Prospection, Perseverance, and Insight in Sequential Behavior. <i>Neuron</i> , 2018 , 99, 1069-1082.e7	13.9	21
111	Contrasting Effects of Medial and Lateral Orbitofrontal Cortex Lesions on Credit Assignment and Decision-Making in Humans. <i>Journal of Neuroscience</i> , 2017 , 37, 7023-7035	6.6	79

110	Obsessing about Uncertainty?. <i>Neuron</i> , 2017 , 96, 250-252	13.9	1
109	Beyond negative valence: 2-week administration of a serotonergic antidepressant enhances both reward and effort learning signals. <i>PLoS Biology</i> , 2017 , 15, e2000756	9.7	22
108	Simultaneous representation of a spectrum of dynamically changing value estimates during decision making. <i>Nature Communications</i> , 2017 , 8, 1942	17.4	42
107	Inverted activity patterns in ventromedial prefrontal cortex during value-guided decision-making in a less-is-more task. <i>Nature Communications</i> , 2017 , 8, 1886	17.4	31
106	Self-Other Mergence in the Frontal Cortex during Cooperation and Competition. <i>Neuron</i> , 2016 , 91, 482-493	13.9	87
105	The extreme capsule fiber complex in humans and macaque monkeys: a comparative diffusion MRI tractography study. <i>Brain Structure and Function</i> , 2016 , 221, 4059-4071	4	71
104	Comparing brains by matching connectivity profiles. <i>Neuroscience and Biobehavioral Reviews</i> , 2016 , 60, 90-7	9	71
103	Reward-Guided Learning with and without Causal Attribution. <i>Neuron</i> , 2016 , 90, 177-90	13.9	43
102	Neural Mechanisms of Credit Assignment in a Multicue Environment. <i>Journal of Neuroscience</i> , 2016 , 36, 1096-112	6.6	35
101	Predictive decision making driven by multiple time-linked reward representations in the anterior cingulate cortex. <i>Nature Communications</i> , 2016 , 7, 12327	17.4	68
100	The Anterior Cingulate Gyrus and Social Cognition: Tracking the Motivation of Others. <i>Neuron</i> , 2016 , 90, 692-707	13.9	235
99	Value, search, persistence and model updating in anterior cingulate cortex. <i>Nature Neuroscience</i> , 2016 , 19, 1280-5	25.5	237
98	Connectivity reveals relationship of brain areas for reward-guided learning and decision making in human and monkey frontal cortex. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, E2695-704	11.5	229
97	The Good, the Bad, and the Irrelevant: Neural Mechanisms of Learning Real and Hypothetical Rewards and Effort. <i>Journal of Neuroscience</i> , 2015 , 35, 11233-51	6.6	58
96	Causal manipulation of functional connectivity in a specific neural pathway during behaviour and at rest. <i>ELife</i> , 2015 , 4,	8.9	28
95	What's Worth the Risk? A Neural Circuit for Trade-Offs. <i>Cell</i> , 2015 , 161, 1243-4	56.2	3
94	Contrasting Roles for Orbitofrontal Cortex and Amygdala in Credit Assignment and Learning in Macaques. <i>Neuron</i> , 2015 , 87, 1106-18	13.9	93
93	A neural mechanism underlying failure of optimal choice with multiple alternatives. <i>Nature Neuroscience</i> , 2014 , 17, 463-70	25.5	79

92	Comparison of human ventral frontal cortex areas for cognitive control and language with areas in monkey frontal cortex. <i>Neuron</i> , 2014 , 81, 700-13	13.9	275
91	Unilateral medial frontal cortex lesions cause a cognitive decision-making deficit in rats. <i>European Journal of Neuroscience</i> , 2014 , 40, 3757-65	3.5	7
90	A neural circuit covarying with social hierarchy in macaques. <i>PLoS Biology</i> , 2014 , 12, e1001940	9.7	106
89	Multiple neural mechanisms of decision making and their competition under changing risk pressure. <i>Neuron</i> , 2014 , 81, 1190-1202	13.9	109
88	Causal effect of disconnection lesions on interhemispheric functional connectivity in rhesus monkeys. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 13982-7	11.5	152
87	Are there specialized circuits for social cognition and are they unique to humans?. <i>Current Opinion in Neurobiology</i> , 2013 , 23, 436-42	7.6	117
86	Top-down inhibitory control exerted by the medial frontal cortex during action selection under conflict. <i>Journal of Cognitive Neuroscience</i> , 2013 , 25, 1634-48	3.1	48
85	Foraging under competition: the neural basis of input-matching in humans. <i>Journal of Neuroscience</i> , 2013 , 33, 9866-72	6.6	35
84	Brain systems for probabilistic and dynamic prediction: computational specificity and integration. <i>PLoS Biology</i> , 2013 , 11, e1001662	9.7	27
83	Trial-type dependent frames of reference for value comparison. <i>PLoS Computational Biology</i> , 2013 , 9, e1003225	5	35
82	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
81	Frontal and parietal cortical interactions with distributed visual representations during selective attention and action selection. <i>Journal of Neuroscience</i> , 2013 , 33, 16443-58	6.6	50
80	Connectivity profiles reveal the relationship between brain areas for social cognition in human and monkey temporoparietal cortex. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 10806-11	11.5	125
79	Valuation and decision-making in frontal cortex: one or many serial or parallel systems?. <i>Current Opinion in Neurobiology</i> , 2012 , 22, 946-55	7.6	203
78	Mechanisms underlying cortical activity during value-guided choice. <i>Nature Neuroscience</i> , 2012 , 15, 470-6, S1-3	25.5	290
77	Neural mechanisms of foraging. <i>Science</i> , 2012 , 336, 95-8	33.3	399
76	Connectivity-based subdivisions of the human right "temporoparietal junction area": evidence for different areas participating in different cortical networks. <i>Cerebral Cortex</i> , 2012 , 22, 1894-903	5.1	383
75	Controlling human striatal cognitive function via the frontal cortex. <i>Journal of Neuroscience</i> , 2012 , 32, 5631-7	6.6	50

74	Model-based analyses: Promises, pitfalls, and example applications to the study of cognitive control. <i>Quarterly Journal of Experimental Psychology</i> , 2012 , 65, 252-67	1.8	32
73	Effects of decision variables and intraparietal stimulation on sensorimotor oscillatory activity in the human brain. <i>Journal of Neuroscience</i> , 2012 , 32, 13805-18	6.6	54
72	On the relationship between the "default mode network" and the "social brain". <i>Frontiers in Human Neuroscience</i> , 2012 , 6, 189	3.3	418
71	Frontal cortex and reward-guided learning and decision-making. <i>Neuron</i> , 2011 , 70, 1054-69	13.9	741
70	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
69	Modulation of short intra-cortical inhibition during action reprogramming. <i>Experimental Brain Research</i> , 2011 , 211, 265-76	2.3	20
68	Distributed and causal influence of frontal operculum in task control. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 4230-5	11.5	101
67	Noninvasive associative plasticity induction in a corticocortical pathway of the human brain. <i>Journal of Neuroscience</i> , 2011 , 31, 17669-79	6.6	73
66	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
65	A network centered on ventral premotor cortex exerts both facilitatory and inhibitory control over primary motor cortex during action reprogramming. <i>Journal of Neuroscience</i> , 2010 , 30, 1395-401	6.6	113
64	Cortical and subcortical interactions during action reprogramming and their related white matter pathways. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 13240-5	11.5	193
63	Topography of connections between human prefrontal cortex and mediodorsal thalamus studied with diffusion tractography. <i>NeuroImage</i> , 2010 , 51, 555-64	7.9	144
62	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
61	Effort-based cost-benefit valuation and the human brain. <i>Journal of Neuroscience</i> , 2009 , 29, 4531-41	6.6	385
60	The timing of neural activity during shifts of spatial attention. <i>Journal of Cognitive Neuroscience</i> , 2009 , 21, 2369-83	3.1	12
59	Short-latency influence of medial frontal cortex on primary motor cortex during action selection under conflict. <i>Journal of Neuroscience</i> , 2009 , 29, 6926-31	6.6	129
58	General mechanisms for making decisions??. <i>Current Opinion in Neurobiology</i> , 2009 , 19, 75-83	7.6	92
57	Comparing the role of the anterior cingulate cortex and 6-hydroxydopamine nucleus accumbens lesions on operant effort-based decision making. <i>European Journal of Neuroscience</i> , 2009 , 29, 1678-91	3.5	98

56	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
55	Conceptual representation and the making of new decisions. <i>Neuron</i> , 2009 , 63, 721-3	13.9	9
54	Connectivity-based parcellation of human cingulate cortex and its relation to functional specialization. <i>Journal of Neuroscience</i> , 2009 , 29, 1175-90	6.6	635
53	Using diffusion imaging to study human connective anatomy. <i>Annual Review of Neuroscience</i> , 2009 , 32, 75-94	17	248
52	The computation of social behavior. <i>Science</i> , 2009 , 324, 1160-4	33.3	342
51	Associative learning of social value. <i>Nature</i> , 2008 , 456, 245-9	50.4	676
50	Choice, uncertainty and value in prefrontal and cingulate cortex. <i>Nature Neuroscience</i> , 2008 , 11, 389-97	25.5	610
49	Frontal cortex subregions play distinct roles in choices between actions and stimuli. <i>Journal of Neuroscience</i> , 2008 , 28, 13775-85	6.6	247
48	Imaging causal interactions during sensorimotor processing. <i>Cortex</i> , 2008 , 44, 598-608	3.8	21
47	Choosing where to attend and the medial frontal cortex: an FMRI study. <i>Journal of Neurophysiology</i> , 2008 , 100, 1397-406	3.2	22
46	Intention, choice, and the medial frontal cortex. <i>Annals of the New York Academy of Sciences</i> , 2008 , 1124, 181-207	6.5	100
45	Learning the value of information in an uncertain world. <i>Nature Neuroscience</i> , 2007 , 10, 1214-21	25.5	1218
44	Functional specificity of human premotor-motor cortical interactions during action selection. <i>European Journal of Neuroscience</i> , 2007 , 26, 2085-95	3.5	112
43	Distinct contributions of frontal areas to emotion and social behaviour in the rat. <i>European Journal of Neuroscience</i> , 2007 , 26, 2315-26	3.5	95
42	Functional organization of the medial frontal cortex. <i>Current Opinion in Neurobiology</i> , 2007 , 17, 220-7	7.6	340
41	Individual differences in white-matter microstructure reflect variation in functional connectivity during choice. <i>Current Biology</i> , 2007 , 17, 1426-31	6.3	115
40	Calculating the cost of acting in frontal cortex. <i>Annals of the New York Academy of Sciences</i> , 2007 , 1104, 340-56	6.5	70
39	FEF TMS affects visual cortical activity. <i>Cerebral Cortex</i> , 2007 , 17, 391-9	5.1	154

38	Functional specialization of the primate frontal cortex during decision making. <i>Journal of Neuroscience</i> , 2007 , 27, 8170-3	6.6	99
37	Subsecond changes in top down control exerted by human medial frontal cortex during conflict and action selection: a combined transcranial magnetic stimulation electroencephalography study. <i>Journal of Neuroscience</i> , 2007 , 27, 11343-53	6.6	130
36	Contrasting roles for cingulate and orbitofrontal cortex in decisions and social behaviour. <i>Trends in Cognitive Sciences</i> , 2007 , 11, 168-76	14	392
35	Functionally specific reorganization in human premotor cortex. <i>Neuron</i> , 2007 , 54, 479-90	13.9	242
34	A paradoxical role for inhibition in initiation. <i>Neuron</i> , 2007 , 54, 669-70	13.9	9
33	Adaptive decision making and value in the anterior cingulate cortex. <i>NeuroImage</i> , 2007 , 36 Suppl 2, T142-54	7.54	119
32	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
31	TMS in the parietal cortex: updating representations for attention and action. <i>Neuropsychologia</i> , 2006 , 44, 2700-16	3.2	101
30	Combining correlation and interference methods in the human brain. Focus on "Cortico-cortical interactions in spatial attention: A combined ERP/TMS study". <i>Journal of Neurophysiology</i> , 2006 , 95, 2731-2	3.2	3
29	Optimal decision making and the anterior cingulate cortex. <i>Nature Neuroscience</i> , 2006 , 9, 940-7	25.5	658
28	Separate neural pathways process different decision costs. <i>Nature Neuroscience</i> , 2006 , 9, 1161-8	25.5	443
27	Attentional selection and action selection in the ventral and orbital prefrontal cortex. <i>Journal of Neuroscience</i> , 2005 , 25, 11628-36	6.6	68
26	Cognitive neuroscience: resolving conflict in and over the medial frontal cortex. <i>Current Biology</i> , 2005 , 15, R54-6	6.3	56
25	Category-related activation for written words in the posterior fusiform is task specific. <i>Neuropsychologia</i> , 2005 , 43, 69-74	3.2	42
24	Effects of an orientation illusion on motor performance and motor imagery. <i>Experimental Brain Research</i> , 2005 , 166, 17-22	2.3	14
23	Parietal rTMS disrupts the initiation but not the execution of on-line adjustments to a perturbation of object size. <i>Journal of Cognitive Neuroscience</i> , 2005 , 17, 124-36	3.1	88
22	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
21	Response-selection-related parietal activation during number comparison. <i>Journal of Cognitive Neuroscience</i> , 2004 , 16, 1536-51	3.1	203

20	Interactions between decision making and performance monitoring within prefrontal cortex. <i>Nature Neuroscience</i> , 2004 , 7, 1259-65	25.5	355
19	Cognitive neuroscience: acting on numbers. <i>Current Biology</i> , 2004 , 14, R517-9	6.3	18
18	Action sets and decisions in the medial frontal cortex. <i>Trends in Cognitive Sciences</i> , 2004 , 8, 410-7	14	821
17	The effect of cingulate cortex lesions on task switching and working memory. <i>Journal of Cognitive Neuroscience</i> , 2003 , 15, 338-53	3.1	104
16	Semantic processing in the left inferior prefrontal cortex: a combined functional magnetic resonance imaging and transcranial magnetic stimulation study. <i>Journal of Cognitive Neuroscience</i> , 2003 , 15, 71-84	3.1	425
15	The parietal cortex in visual search: a visuomotor hypothesis. <i>Supplements To Clinical Neurophysiology</i> , 2003 , 56, 321-30		36
14	Functional specialization within medial frontal cortex of the anterior cingulate for evaluating effort-related decisions. <i>Journal of Neuroscience</i> , 2003 , 23, 6475-9	6.6	383
13	Components of switching intentional set. <i>Journal of Cognitive Neuroscience</i> , 2002 , 14, 1139-50	3.1	203
12	The role of ipsilateral premotor cortex in hand movement after stroke. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002 , 99, 14518-23	11.5	628
11	The role of rat medial frontal cortex in effort-based decision making. <i>Journal of Neuroscience</i> , 2002 , 22, 10996-1003	6.6	274
10	Neural correlates of visuomotor associations. Spatial rules compared with arbitrary rules. <i>Experimental Brain Research</i> , 2001 , 141, 359-69	2.3	152
9	Complementary localization and lateralization of orienting and motor attention. <i>Nature Neuroscience</i> , 2001 , 4, 656-61	25.5	334
8	The attentional role of the left parietal cortex: the distinct lateralization and localization of motor attention in the human brain. <i>Journal of Cognitive Neuroscience</i> , 2001 , 13, 698-710	3.1	306
7	Attention systems and the organization of the human parietal cortex. <i>Journal of Neuroscience</i> , 2001 , 21, 5262-71	6.6	291
6	Anatomical and functional subdivision within the primate lateral prefrontal cortex. <i>Cognitive, Affective and Behavioral Neuroscience</i> , 2000 , 28, 187-196		11
5	The left hemisphere and the selection of learned actions. <i>Neuropsychologia</i> , 1998 , 36, 11-24	3.2	91
4	Ventral prefrontal cortex is not essential for working memory. <i>Journal of Neuroscience</i> , 1997 , 17, 4829-38.6		167
3	The left parietal cortex and motor attention. <i>Neuropsychologia</i> , 1997 , 35, 1261-73	3.2	222

- 2 Parietal cortex and movement. I. Movement selection and reaching. *Experimental Brain Research*, **1997**, 117, 292-310 2.3 156
- 1 Parietal cortex and movement. II. Spatial representation. *Experimental Brain Research*, **1997**, 117, 311-232.3 48