

Rogier B Mars

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.

132
papers

9,279
citations

51
h-index

95
g-index

151
ext. papers

11,625
ext. citations

8
avg, IF

6.4
L-index

#	Paper	IF	Citations
132	Task-free MRI predicts individual differences in brain activity during task performance. <i>Science</i> , 2016 , 352, 216-20	33.3	432
131	On the relationship between the "default mode network" and the "social brain". <i>Frontiers in Human Neuroscience</i> , 2012 , 6, 189	3.3	418
130	Neural mechanisms of foraging. <i>Science</i> , 2012 , 336, 95-8	33.3	399
129	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
128	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
127	Dorsal anterior cingulate cortex shows fMRI response to internal and external error signals. <i>Nature Neuroscience</i> , 2004 , 7, 497-8	25.5	378
126	Modulation of activity in medial frontal and motor cortices during error observation. <i>Nature Neuroscience</i> , 2004 , 7, 549-54	25.5	336
125	Social network size affects neural circuits in macaques. <i>Science</i> , 2011 , 334, 697-700	33.3	332
124	The organization of dorsal frontal cortex in humans and macaques. <i>Journal of Neuroscience</i> , 2013 , 33, 12255-74	6.6	281
123	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
122	Activity in human reward-sensitive brain areas is strongly context dependent. <i>NeuroImage</i> , 2005 , 25, 1302-9	7.9	239
121	Value, search, persistence and model updating in anterior cingulate cortex. <i>Nature Neuroscience</i> , 2016 , 19, 1280-5	25.5	237
120	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
119	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
118	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
117	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
116	Trial-by-trial fluctuations in the event-related electroencephalogram reflect dynamic changes in the degree of surprise. <i>Journal of Neuroscience</i> , 2008 , 28, 12539-45	6.6	168

115	The right hippocampus participates in short-term memory maintenance of object-location associations. <i>NeuroImage</i> , 2006 , 33, 374-82	7.9	167
114	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
113	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
112	Making mirrors: premotor cortex stimulation enhances mirror and counter-mirror motor facilitation. <i>Journal of Cognitive Neuroscience</i> , 2011 , 23, 2352-62	3.1	126
111	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
110	Neural dynamics of error processing in medial frontal cortex. <i>NeuroImage</i> , 2005 , 28, 1007-13	7.9	122
109	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
108	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
107	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
106	On the neural control of social emotional behavior. <i>Social Cognitive and Affective Neuroscience</i> , 2009 , 4, 50-8	4	110
105	Distinct roles of three frontal cortical areas in reward-guided behavior. <i>Journal of Neuroscience</i> , 2011 , 31, 14399-412	6.6	108
104	A neural circuit covarying with social hierarchy in macaques. <i>PLoS Biology</i> , 2014 , 12, e1001940	9.7	106
103	An Open Resource for Non-human Primate Imaging. <i>Neuron</i> , 2018 , 100, 61-74.e2	13.9	103
102	Influence of uncertainty and surprise on human corticospinal excitability during preparation for action. <i>Current Biology</i> , 2008 , 18, 775-780	6.3	102
101	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
100	Offline impact of transcranial focused ultrasound on cortical activation in primates. <i>ELife</i> , 2019 , 8,	8.9	97
99	General mechanisms for making decisions?. <i>Current Opinion in Neurobiology</i> , 2009 , 19, 75-83	7.6	92
98	Connectivity Fingerprints: From Areal Descriptions to Abstract Spaces. <i>Trends in Cognitive Sciences</i> , 2018 , 22, 1026-1037	14	83

97	Toward a hierarchical model of social cognition: A neuroimaging meta-analysis and integrative review of empathy and theory of mind. <i>Psychological Bulletin</i> , 2021 , 147, 293-327	19.1	78
96	Computing the Social Brain Connectome Across Systems and States. <i>Cerebral Cortex</i> , 2018 , 28, 2207-2233	3.1	76
95	Specifying the brain anatomy underlying temporo-parietal junction activations for theory of mind: A review using probabilistic atlases from different imaging modalities. <i>Human Brain Mapping</i> , 2017 , 38, 4788-4805	5.9	75
94	Whole brain comparative anatomy using connectivity blueprints. <i>ELife</i> , 2018 , 7,	8.9	75
93	Functional connectivity of the striatum links motivation to action control in humans. <i>Journal of Neuroscience</i> , 2011 , 31, 10701-11	6.6	72
92	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
91	Comparing brains by matching connectivity profiles. <i>Neuroscience and Biobehavioral Reviews</i> , 2016 , 60, 90-7	9	71
90	On the programming and reprogramming of actions. <i>Cerebral Cortex</i> , 2007 , 17, 2972-9	5.1	71
89	Error-likelihood prediction in the medial frontal cortex: a critical evaluation. <i>Cerebral Cortex</i> , 2007 , 17, 1570-81	5.1	63
88	Effects of motor preparation and spatial attention on corticospinal excitability in a delayed-response paradigm. <i>Experimental Brain Research</i> , 2007 , 182, 125-9	2.3	61
87	Where is Cingulate Cortex? A Cross-Species View. <i>Trends in Neurosciences</i> , 2020 , 43, 285-299	13.3	57
86	XTRACT - Standardised protocols for automated tractography in the human and macaque brain. <i>NeuroImage</i> , 2020 , 217, 116923	7.9	56
85	Classification and treatment of antisocial individuals: From behavior to biocognition. <i>Neuroscience and Biobehavioral Reviews</i> , 2018 , 91, 259-277	9	55
84	The structural and functional brain networks that support human social networks. <i>Behavioural Brain Research</i> , 2018 , 355, 12-23	3.4	54
83	What is special about the human arcuate fasciculus? Lateralization, projections, and expansion. <i>Cortex</i> , 2019 , 118, 107-115	3.8	54
82	Accelerating the Evolution of Nonhuman Primate Neuroimaging. <i>Neuron</i> , 2020 , 105, 600-603	13.9	51
81	Controlling human striatal cognitive function via the frontal cortex. <i>Journal of Neuroscience</i> , 2012 , 32, 5631-7	6.6	50
80	A neurophysiological dissociation between monitoring one's own and others' actions in psychopathy. <i>Biological Psychiatry</i> , 2011 , 69, 693-9	7.9	42

79	Primate comparative neuroscience using magnetic resonance imaging: promises and challenges. <i>Frontiers in Neuroscience</i> , 2014 , 8, 298	5.1	38
78	Dorsolateral prefrontal cortex, working memory, and prospective coding for action. <i>Journal of Neuroscience</i> , 2007 , 27, 1801-2	6.6	38
77	Cross-species cortical alignment identifies different types of anatomical reorganization in the primate temporal lobe. <i>ELife</i> , 2020 , 9,	8.9	37
76	Primate homologs of mouse cortico-striatal circuits. <i>ELife</i> , 2020 , 9,	8.9	37
75	When the brain changes its mind: flexibility of action selection in instructed and free choices. <i>Cerebral Cortex</i> , 2009 , 19, 2352-60	5.1	34
74	Processing of visual semantic information to concrete words: temporal dynamics and neural mechanisms indicated by event-related brain potentials(). <i>Cognitive Neuropsychology</i> , 2005 , 22, 364-86	2.3	34
73	Connectivity and the search for specializations in the language-capable brain. <i>Current Opinion in Behavioral Sciences</i> , 2018 , 21, 19-26	4	32
72	Is the extrastriate body area part of the dorsal visuomotor stream?. <i>Brain Structure and Function</i> , 2018 , 223, 31-46	4	32
71	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
70	Probing human and monkey anterior cingulate cortex in variable environments. <i>Cognitive, Affective and Behavioral Neuroscience</i> , 2007 , 7, 413-22	3.5	31
69	Dichotomous organization of amygdala/temporal-prefrontal bundles in both humans and monkeys. <i>ELife</i> , 2019 , 8,	8.9	31
68	Causal manipulation of functional connectivity in a specific neural pathway during behaviour and at rest. <i>ELife</i> , 2015 , 4,	8.9	28
67	Control of entropy in neural models of environmental state. <i>ELife</i> , 2019 , 8,	8.9	28
66	Online maintenance of sensory and motor representations: effects on corticospinal excitability. <i>Journal of Neurophysiology</i> , 2007 , 97, 1642-8	3.2	27
65	Emotional control, reappraised. <i>Neuroscience and Biobehavioral Reviews</i> , 2018 , 95, 528-534	9	26
64	Delay-related cerebral activity and motor preparation. <i>Cortex</i> , 2008 , 44, 507-20	3.8	25
63	Longitudinal connections and the organization of the temporal cortex in macaques, great apes, and humans. <i>PLoS Biology</i> , 2020 , 18, e3000810	9.7	25
62	Large-scale comparative neuroimaging: Where are we and what do we need?. <i>Cortex</i> , 2019 , 118, 188-202	3.8	21

61	Connectivity of the Cingulate Sulcus Visual Area (CSv) in the Human Cerebral Cortex. <i>Cerebral Cortex</i> , 2018 , 28, 713-725	5.1	20
60	Modulation of short intra-cortical inhibition during action reprogramming. <i>Experimental Brain Research</i> , 2011 , 211, 265-76	2.3	20
59	Transcranial magnetic stimulation to dorsolateral prefrontal cortex affects conflict-induced behavioural adaptation in a Wisconsin Card Sorting Test analogue. <i>Neuropsychologia</i> , 2017 , 94, 36-43	3.2	17
58	Your mistake is my mistake or is it? Behavioural adjustments following own and observed actions in cooperative and competitive contexts. <i>Quarterly Journal of Experimental Psychology</i> , 2012 , 65, 317-25	1.8	17
57	Macro-connectomics and microstructure predict dynamic plasticity patterns in the non-human primate brain. <i>ELife</i> , 2018 , 7,	8.9	17
56	Human Lateral Frontal Pole Contributes to Control over Emotional Approach-Avoidance Actions. <i>Journal of Neuroscience</i> , 2020 , 40, 2925-2934	6.6	16
55	Cross-species neuroscience: closing the explanatory gap. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2021 , 376, 20190633	5.8	16
54	Principles of temporal association cortex organisation as revealed by connectivity gradients. <i>Brain Structure and Function</i> , 2020 , 225, 1245-1260	4	14
53	Morphological and functional variability in central and subcentral motor cortex of the human brain. <i>Brain Structure and Function</i> , 2021 , 226, 263-279	4	14
52	Mapping Human Laryngeal Motor Cortex during Vocalization. <i>Cerebral Cortex</i> , 2020 , 30, 6254-6269	5.1	14
51	A collaborative resource platform for non-human primate neuroimaging. <i>NeuroImage</i> , 2021 , 226, 117519	7.9	14
50	A Common Space Approach to Comparative Neuroscience. <i>Annual Review of Neuroscience</i> , 2021 , 44, 69-86	8.7	14
49	Affective traits of psychopathy are linked to white-matter abnormalities in impulsive male offenders. <i>Neuropsychology</i> , 2018 , 32, 735-745	3.8	12
48	Concurrent analysis of white matter bundles and grey matter networks in the chimpanzee. <i>Brain Structure and Function</i> , 2019 , 224, 1021-1033	4	12
47	A comprehensive atlas of white matter tracts in the chimpanzee. <i>PLoS Biology</i> , 2020 , 18, e3000971	9.7	11
46	Preserved extrastriate visual network in a monkey with substantial, naturally occurring damage to primary visual cortex. <i>ELife</i> , 2019 , 8,	8.9	11
45	The brain-structural correlates of mathematical expertise. <i>Cortex</i> , 2019 , 114, 140-150	3.8	11
44	Lateral frontal pole and relational processing: Activation patterns and connectivity profile. <i>Behavioural Brain Research</i> , 2018 , 355, 2-11	3.4	11

43	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
42	Computational neuroimaging: localising Greek letters? Comment on Forstmann et al. <i>Trends in Cognitive Sciences</i> , 2011 , 15, 450	14	10
41	Imaging evolution of the primate brain: the next frontier?. <i>NeuroImage</i> , 2021 , 228, 117685	7.9	10
40	Psychopathy-related traits and the use of reward and social information: a computational approach. <i>Frontiers in Psychology</i> , 2013 , 4, 952	3.4	9
39	Mapping multiple principles of parietal-frontal cortical organization using functional connectivity. <i>Brain Structure and Function</i> , 2019 , 224, 681-697	4	9
38	Functional parcellation of human and macaque striatum reveals human-specific connectivity in the dorsal caudate. <i>NeuroImage</i> , 2021 , 235, 118006	7.9	9
37	Infants tailor their attention to maximize learning. <i>Science Advances</i> , 2020 , 6,	14.3	7
36	Brain gyrification in wild and domestic canids: Has domestication changed the gyrification index in domestic dogs?. <i>Journal of Comparative Neurology</i> , 2020 , 528, 3209-3228	3.4	6
35	Characterising neural plasticity at the single patient level using connectivity fingerprints. <i>NeuroImage: Clinical</i> , 2019 , 24, 101952	5.3	6
34	A triple-network organization for the mouse brain. <i>Molecular Psychiatry</i> , 2021 ,	15.1	6
33	Diffusion MRI data, sulcal anatomy, and tractography for eight species from the Primate Brain Bank. <i>Brain Structure and Function</i> , 2021 , 226, 2497-2509	4	6
32	Paired-pulse transcranial magnetic stimulation reveals probability-dependent changes in functional connectivity between right inferior frontal cortex and primary motor cortex during go/no-go performance. <i>Frontiers in Human Neuroscience</i> , 2013 , 7, 736	3.3	5
31	Comparative connectomics of the primate social brain. <i>NeuroImage</i> , 2021 , 245, 118693	7.9	5
30	Morphological and functional variability in central and subcentral motor cortex of the human brain		5
29	Cross-species cortical alignment identifies different types of neuroanatomical reorganization in the temporal lobe of higher primates		5
28	Social prediction modulates activity of macaque superior temporal cortex. <i>Science Advances</i> , 2021 , 7, eabh2392	14.3	5
27	Neuroscience: a more dynamic view of the social brain. <i>Current Biology</i> , 2012 , 22, R994-5	6.3	3
26	Human lateral Frontal Pole contributes to control over social-emotional action		3

25	Processing of performance errors predicts memory formation: Enhanced feedback-related negativities for corrected versus repeated errors in an associative learning paradigm. <i>European Journal of Neuroscience</i> , 2020 , 51, 881-890	3.5	3
24	Scaling Principles of White Matter Connectivity in the Human and Nonhuman Primate Brain. <i>Cerebral Cortex</i> , 2021 ,	5.1	3
23	Does the temporal cortex make us human? A review of structural and functional diversity of the primate temporal lobe. <i>Neuroscience and Biobehavioral Reviews</i> , 2021 , 131, 400-410	9	3
22	A comprehensive atlas of white matter tracts in the chimpanzee		2
21	Manipulation of subcortical and deep cortical activity in the primate brain using transcranial focused ultrasound stimulation		2
20	Primate homologs of mouse cortico-striatal circuits		2
19	The Digital Brain Bank, an open access platform for post-mortem datasets		2
18	Cortical Morphology and White Matter Tractography of Three Phylogenetically Distant Primates: Evidence for a Simian Elaboration. <i>Cerebral Cortex</i> , 2021 ,	5.1	2
17	Tracking longitudinal language network reorganisation using functional MRI connectivity fingerprints. <i>NeuroImage: Clinical</i> , 2021 , 30, 102689	5.3	2
16	Bayesian Models in Cognitive Neuroscience: A Tutorial 2015 , 179-197		1
15	Comparing Connections in the Brains of Humans and Other Primates Using Diffusion-Weighted Imaging 2014 , 569-584		1
14	Mapping human laryngeal motor cortex during vocalization		1
13	Whole brain comparative anatomy using connectivity blueprints		1
12	Two fiber pathways connecting amygdala and prefrontal cortex in humans and monkeys		1
11	An open resource for nonhuman primate imaging		1
10	Social prediction modulates activity of macaque superior temporal cortex		1
9	Connectivity gradients on tractography data: Pipeline and example applications. <i>Human Brain Mapping</i> , 2021 , 42, 5827-5845	5.9	1
8	The Anticipatory and Task-Driven Nature of Visual Perception. <i>Cerebral Cortex</i> , 2021 , 31, 5354-5362	5.1	1

7	Constructing Others' Beliefs from One's Own Using Medial Frontal Cortex. <i>Journal of Neuroscience</i> , 2021 , 41, 9571-9580	6.6	1
6	The Digital Brain Bank, an open access platform for post-mortem datasets.. <i>ELife</i> , 2022 , 11,	8.9	1
5	Dissociating the functional roles of arcuate fasciculus subtracts in speech production. <i>Cerebral Cortex</i> ,	5.1	1
4	Neural mechanisms of predicting individual preferences based on group membership. <i>Social Cognitive and Affective Neuroscience</i> , 2021 , 16, 1006-1017	4	0
3	Variability in Brain Structure and Function Reflects Lack of Peer Support. <i>Cerebral Cortex</i> , 2021 , 31, 4612-4627	5.46	0
2	Contributions of expected learning progress and perceptual novelty to curiosity-driven exploration.. <i>Cognition</i> , 2022 , 225, 105119	3.5	0
1	Neuroecology: The Brain in Its World 2022 , 757-765		