

Rogier B Mars

List of Publications by Year in descending order

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Version: 2024-02-01

122
papers

13,217
citations

31902

53
h-index

28224

105
g-index

151
all docs

151
docs citations

151
times ranked

12201
citing authors

#	ARTICLE	IF	CITATIONS
1	Task-free MRI predicts individual differences in brain activity during task performance. <i>Science</i> , 2016, 352, 216-220.	6.0	648
2	On the relationship between the "default mode network" and the "social brain". <i>Frontiers in Human Neuroscience</i> , 2012, 6, 189.	1.0	601
3	Neural Mechanisms of Foraging. <i>Science</i> , 2012, 336, 95-98.	6.0	527
4	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, 1894-1903.	1.6	452
5	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, 4087-4100.	1.7	446
6	Social Network Size Affects Neural Circuits in Macaques. <i>Science</i> , 2011, 334, 697-700.	6.0	435
7	Dorsal anterior cingulate cortex shows fMRI response to internal and external error signals. <i>Nature Neuroscience</i> , 2004, 7, 497-498.	7.1	429
8	Modulation of activity in medial frontal and motor cortices during error observation. <i>Nature Neuroscience</i> , 2004, 7, 549-554.	7.1	398
9	The Organization of Dorsal Frontal Cortex in Humans and Macaques. <i>Journal of Neuroscience</i> , 2013, 33, 12255-12274.	1.7	366
10	Comparison of Human Ventral Frontal Cortex Areas for Cognitive Control and Language with Areas in Monkey Frontal Cortex. <i>Neuron</i> , 2014, 81, 700-713.	3.8	359
11	Value, search, persistence and model updating in anterior cingulate cortex. <i>Nature Neuroscience</i> , 2016, 19, 1280-1285.	7.1	357
12	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.	3.3	327
13	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.	3.3	277
14	Activity in human reward-sensitive brain areas is strongly context dependent. <i>NeuroImage</i> , 2005, 25, 1302-1309.	2.1	270
15	Valuation and decision-making in frontal cortex: one or many serial or parallel systems?. <i>Current Opinion in Neurobiology</i> , 2012, 22, 946-955.	2.0	265
16	Manipulation of Subcortical and Deep Cortical Activity in the Primate Brain Using Transcranial Focused Ultrasound Stimulation. <i>Neuron</i> , 2019, 101, 1109-1116.e5.	3.8	253
17	Trial-by-Trial Fluctuations in the Event-Related Electroencephalogram Reflect Dynamic Changes in the Degree of Surprise. <i>Journal of Neuroscience</i> , 2008, 28, 12539-12545.	1.7	248
18	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.	5.5	238

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19	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, 13240-13245.	3.3	225
20	Offline impact of transcranial focused ultrasound on cortical activation in primates. <i>ELife</i> , 2019, 8, .	2.8	196
21	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, 13982-13987.	3.3	195
22	An Open Resource for Non-human Primate Imaging. <i>Neuron</i> , 2018, 100, 61-74.e2.	3.8	190
23	The right hippocampus participates in short-term memory maintenance of object location associations. <i>NeuroImage</i> , 2006, 33, 374-382.	2.1	183
24	XTRACT - Standardised protocols for automated tractography in the human and macaque brain. <i>NeuroImage</i> , 2020, 217, 116923.	2.1	165
25	Short-Latency Influence of Medial Frontal Cortex on Primary Motor Cortex during Action Selection under Conflict. <i>Journal of Neuroscience</i> , 2009, 29, 6926-6931.	1.7	152
26	Where is Cingulate Cortex? A Cross-Species View. <i>Trends in Neurosciences</i> , 2020, 43, 285-299.	4.2	150
27	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, 10806-10811.	3.3	149
28	Making Mirrors: Premotor Cortex Stimulation Enhances Mirror and Counter-mirror Motor Facilitation. <i>Journal of Cognitive Neuroscience</i> , 2011, 23, 2352-2362.	1.1	141
29	Neural dynamics of error processing in medial frontal cortex. <i>NeuroImage</i> , 2005, 28, 1007-1013.	2.1	136
30	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.	1.9	136
31	Whole brain comparative anatomy using connectivity blueprints. <i>ELife</i> , 2018, 7, .	2.8	135
32	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, 1395-1401.	1.7	134
33	Connectivity Fingerprints: From Areal Descriptions to Abstract Spaces. <i>Trends in Cognitive Sciences</i> , 2018, 22, 1026-1037.	4.0	134
34	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, 4230-4235.	3.3	133
35	A Neural Circuit Covarying with Social Hierarchy in Macaques. <i>PLoS Biology</i> , 2014, 12, e1001940.	2.6	133
36	On the neural control of social emotional behavior. <i>Social Cognitive and Affective Neuroscience</i> , 2009, 4, 50-58.	1.5	132

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37	Distinct Roles of Three Frontal Cortical Areas in Reward-Guided Behavior. <i>Journal of Neuroscience</i> , 2011, 31, 14399-14412.	1.7	132
38	Are there specialized circuits for social cognition and are they unique to humans?. <i>Current Opinion in Neurobiology</i> , 2013, 23, 436-442.	2.0	131
39	Influence of Uncertainty and Surprise on Human Corticospinal Excitability during Preparation for Action. <i>Current Biology</i> , 2008, 18, 775-780.	1.8	128
40	Computing the Social Brain Connectome Across Systems and States. <i>Cerebral Cortex</i> , 2018, 28, 2207-2232.	1.6	127
41	Comparing brains by matching connectivity profiles. <i>Neuroscience and Biobehavioral Reviews</i> , 2016, 60, 90-97.	2.9	117
42	General mechanisms for making decisions?. <i>Current Opinion in Neurobiology</i> , 2009, 19, 75-83.	2.0	108
43	The structural and functional brain networks that support human social networks. <i>Behavioural Brain Research</i> , 2018, 355, 12-23.	1.2	92
44	Accelerating the Evolution of Nonhuman Primate Neuroimaging. <i>Neuron</i> , 2020, 105, 600-603.	3.8	92
45	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.	1.2	91
46	What is special about the human arcuate fasciculus? Lateralization, projections, and expansion. <i>Cortex</i> , 2019, 118, 107-115.	1.1	88
47	On the Programming and Reprogramming of Actions. <i>Cerebral Cortex</i> , 2007, 17, 2972-2979.	1.6	85
48	Classification and treatment of antisocial individuals: From behavior to biocognition. <i>Neuroscience and Biobehavioral Reviews</i> , 2018, 91, 259-277.	2.9	82
49	Functional Connectivity of the Striatum Links Motivation to Action Control in Humans. <i>Journal of Neuroscience</i> , 2011, 31, 10701-10711.	1.7	80
50	Primate homologs of mouse cortico-striatal circuits. <i>ELife</i> , 2020, 9, .	2.8	73
51	Cross-species cortical alignment identifies different types of anatomical reorganization in the primate temporal lobe. <i>ELife</i> , 2020, 9, .	2.8	71
52	Effects of motor preparation and spatial attention on corticospinal excitability in a delayed-response paradigm. <i>Experimental Brain Research</i> , 2007, 182, 125-129.	0.7	69
53	Error-Likelihood Prediction in the Medial Frontal Cortex: A Critical Evaluation. <i>Cerebral Cortex</i> , 2007, 17, 1570-1581.	1.6	67
54	Dichotomous organization of amygdala/temporal-prefrontal bundles in both humans and monkeys. <i>ELife</i> , 2019, 8, .	2.8	66

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55	Is the extrastriate body area part of the dorsal visuomotor stream?. Brain Structure and Function, 2018, 223, 31-46.	1.2	65
56	Controlling Human Striatal Cognitive Function via the Frontal Cortex. Journal of Neuroscience, 2012, 32, 5631-5637.	1.7	60
57	Dorsolateral Prefrontal Cortex, Working Memory, and Prospective Coding for Action. Journal of Neuroscience, 2007, 27, 1801-1802.	1.7	56
58	Causal manipulation of functional connectivity in a specific neural pathway during behaviour and at rest. ELife, 2015, 4, .	2.8	55
59	Emotional control, reappraised. Neuroscience and Biobehavioral Reviews, 2018, 95, 528-534.	2.9	52
60	Control of entropy in neural models of environmental state. ELife, 2019, 8, .	2.8	50
61	Primate comparative neuroscience using magnetic resonance imaging: promises and challenges. Frontiers in Neuroscience, 2014, 8, 298.	1.4	49
62	Longitudinal connections and the organization of the temporal cortex in macaques, great apes, and humans. PLoS Biology, 2020, 18, e3000810.	2.6	49
63	A Neurophysiological Dissociation Between Monitoring One's Own and Others' Actions in Psychopathy. Biological Psychiatry, 2011, 69, 693-699.	0.7	48
64	A Common Space Approach to Comparative Neuroscience. Annual Review of Neuroscience, 2021, 44, 69-86.	5.0	48
65	Large-scale comparative neuroimaging: Where are we and what do we need?. Cortex, 2019, 118, 188-202.	1.1	47
66	A triple-network organization for the mouse brain. Molecular Psychiatry, 2022, 27, 865-872.	4.1	44
67	Imaging evolution of the primate brain: the next frontier?. NeuroImage, 2021, 228, 117685.	2.1	43
68	Cross-species neuroscience: closing the explanatory gap. Philosophical Transactions of the Royal Society B: Biological Sciences, 2021, 376, 20190633.	1.8	41
69	When the Brain Changes Its Mind: Flexibility of Action Selection in Instructed and Free Choices. Cerebral Cortex, 2009, 19, 2352-2360.	1.6	40
70	Processing of visual semantic information to concrete words: temporal dynamics and neural mechanisms indicated by event-related brain potentials. Cognitive Neuropsychology, 2005, 22, 364-386.	0.4	39
71	Model-based analyses: Promises, pitfalls, and example applications to the study of cognitive control. Quarterly Journal of Experimental Psychology, 2012, 65, 252-267.	0.6	38
72	Human Lateral Frontal Pole Contributes to Control over Emotional Approach-Avoidance Actions. Journal of Neuroscience, 2020, 40, 2925-2934.	1.7	38

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73	Connectivity and the search for specializations in the language-capable brain. <i>Current Opinion in Behavioral Sciences</i> , 2018, 21, 19-26.	2.0	37
74	A collaborative resource platform for non-human primate neuroimaging. <i>NeuroImage</i> , 2021, 226, 117519.	2.1	36
75	Probing human and monkey anterior cingulate cortex in variable environments. <i>Cognitive, Affective and Behavioral Neuroscience</i> , 2007, 7, 413-422.	1.0	34
76	Online Maintenance of Sensory and Motor Representations: Effects on Corticospinal Excitability. <i>Journal of Neurophysiology</i> , 2007, 97, 1642-1648.	0.9	32
77	Mapping Human Laryngeal Motor Cortex during Vocalization. <i>Cerebral Cortex</i> , 2020, 30, 6254-6269.	1.6	32
78	Connectivity of the Cingulate Sulcus Visual Area (CSv) in the Human Cerebral Cortex. <i>Cerebral Cortex</i> , 2018, 28, 713-725.	1.6	31
79	Infants tailor their attention to maximize learning. <i>Science Advances</i> , 2020, 6, .	4.7	30
80	Functional parcellation of human and macaque striatum reveals human-specific connectivity in the dorsal caudate. <i>NeuroImage</i> , 2021, 235, 118006.	2.1	29
81	Delay-related cerebral activity and motor preparation. <i>Cortex</i> , 2008, 44, 507-520.	1.1	28
82	Modulation of short intra-cortical inhibition during action reprogramming. <i>Experimental Brain Research</i> , 2011, 211, 265-276.	0.7	28
83	Morphological and functional variability in central and subcentral motor cortex of the human brain. <i>Brain Structure and Function</i> , 2021, 226, 263-279.	1.2	28
84	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.	2.9	26
85	Lateral frontal pole and relational processing: Activation patterns and connectivity profile. <i>Behavioural Brain Research</i> , 2018, 355, 2-11.	1.2	25
86	Principles of temporal association cortex organisation as revealed by connectivity gradients. <i>Brain Structure and Function</i> , 2020, 225, 1245-1260.	1.2	25
87	A comprehensive atlas of white matter tracts in the chimpanzee. <i>PLoS Biology</i> , 2020, 18, e3000971.	2.6	25
88	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.	2.6	24
89	Macro-connectomics and microstructure predict dynamic plasticity patterns in the non-human primate brain. <i>ELife</i> , 2018, 7, .	2.8	23
90	Comparative connectomics of the primate social brain. <i>NeuroImage</i> , 2021, 245, 118693.	2.1	23

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91	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, 317-325.	0.6	22
92	Variability in Brain Structure and Function Reflects Lack of Peer Support. <i>Cerebral Cortex</i> , 2021, 31, 4612-4627.	1.6	22
93	The Digital Brain Bank, an open access platform for post-mortem imaging datasets. <i>ELife</i> , 2022, 11, .	2.8	22
94	Concurrent analysis of white matter bundles and grey matter networks in the chimpanzee. <i>Brain Structure and Function</i> , 2019, 224, 1021-1033.	1.2	21
95	Preserved extrastriate visual network in a monkey with substantial, naturally occurring damage to primary visual cortex. <i>ELife</i> , 2019, 8, .	2.8	19
96	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.	0.7	18
97	The brain-structural correlates of mathematical expertise. <i>Cortex</i> , 2019, 114, 140-150.	1.1	18
98	Affective traits of psychopathy are linked to white-matter abnormalities in impulsive male offenders.. <i>Neuropsychology</i> , 2018, 32, 735-745.	1.0	18
99	Psychopathy-related traits and the use of reward and social information: a computational approach. <i>Frontiers in Psychology</i> , 2013, 4, 952.	1.1	17
100	Mapping multiple principles of parietal–frontal cortical organization using functional connectivity. <i>Brain Structure and Function</i> , 2019, 224, 681-697.	1.2	16
101	Computational neuroimaging: localising Greek letters? Comment on Forstmann et al.. <i>Trends in Cognitive Sciences</i> , 2011, 15, 450.	4.0	15
102	Social prediction modulates activity of macaque superior temporal cortex. <i>Science Advances</i> , 2021, 7, eabh2392.	4.7	15
103	Comparing human and chimpanzee temporal lobe neuroanatomy reveals modifications to human language hubs beyond the frontotemporal arcuate fasciculus. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	3.3	15
104	Scaling Principles of White Matter Connectivity in the Human and Nonhuman Primate Brain. <i>Cerebral Cortex</i> , 2022, 32, 2831-2842.	1.6	14
105	Brain gyrfication in wild and domestic canids: Has domestication changed the gyrfication index in domestic dogs?. <i>Journal of Comparative Neurology</i> , 2020, 528, 3209-3228.	0.9	12
106	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.	1.2	12
107	Cortical Morphology and White Matter Tractography of Three Phylogenetically Distant Primates: Evidence for a Simian Elaboration. <i>Cerebral Cortex</i> , 2022, 32, 1608-1624.	1.6	11
108	Contributions of expected learning progress and perceptual novelty to curiosity-driven exploration. <i>Cognition</i> , 2022, 225, 105119.	1.1	11

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109	Characterising neural plasticity at the single patient level using connectivity fingerprints. <i>NeuroImage: Clinical</i> , 2019, 24, 101952.	1.4	9
110	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.	1.0	8
111	Selection, preparation, and monitoring: Current approaches to studying the neural control of action. <i>Cortex</i> , 2008, 44, 479-481.	1.1	7
112	Dissociating the functional roles of arcuate fasciculus subtracts in speech production. <i>Cerebral Cortex</i> , 2023, 33, 2539-2547.	1.6	7
113	Bayesian Models in Cognitive Neuroscience: A Tutorial. , 2015, , 179-197.		6
114	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.	1.2	6
115	Connectivity gradients on tractography data: Pipeline and example applications. <i>Human Brain Mapping</i> , 2021, 42, 5827-5845.	1.9	5
116	The Anticipatory and Task-Driven Nature of Visual Perception. <i>Cerebral Cortex</i> , 2021, 31, 5354-5362.	1.6	5
117	Constructing others'™ beliefs from one's™ own using medial frontal cortex. <i>Journal of Neuroscience</i> , 2021, 41, JN-RM-0011-21.	1.7	4
118	Neuroscience: A More Dynamic View of the Social Brain. <i>Current Biology</i> , 2012, 22, R994-R995.	1.8	3
119	Tracking longitudinal language network reorganisation using functional MRI connectivity fingerprints. <i>NeuroImage: Clinical</i> , 2021, 30, 102689.	1.4	2
120	Comparing Connections in the Brains of Humans and Other Primates Using Diffusion-Weighted Imaging. , 2014, , 569-584.		1
121	Neural mechanisms of predicting individual preferences based on group membership. <i>Social Cognitive and Affective Neuroscience</i> , 2021, 16, 1006-1017.	1.5	1
122	Neuroecology: The Brain in Its World. , 2022, , 757-765.		0