Rogier B Mars

List of Publications by Year in Descending Order

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	Neuroecology: The Brain in Its World **2022**, 757-765		
131	The Digital Brain Bank, an open access platform for post-mortem datasets.. *ELife*, **2022**, 11,	8.9	1
130	Contributions of expected learning progress and perceptual novelty to curiosity-driven exploration.. *Cognition*, **2022**, 225, 105119	3.5	0
129	Neural mechanisms of predicting individual preferences based on group membership. *Social Cognitive and Affective Neuroscience*, **2021**, 16, 1006-1017	4	0
128	A triple-network organization for the mouse brain. *Molecular Psychiatry*, **2021**,	15.1	6
127	Comparative connectomics of the primate social brain. *NeuroImage*, **2021**, 245, 118693	7.9	5
126	Morphological and functional variability in central and subcentral motor cortex of the human brain. *Brain Structure and Function*, **2021**, 226, 263-279	4	14
125	Cross-species neuroscience: closing the explanatory gap. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **2021**, 376, 20190633	5.8	16
124	Imaging evolution of the primate brain: the next frontier?. *NeuroImage*, **2021**, 228, 117685	7.9	10
123	Toward a hierarchical model of social cognition: A neuroimaging meta-analysis and integrative review of empathy and theory of mind. *Psychological Bulletin*, **2021**, 147, 293-327	19.1	78
122	Variability in Brain Structure and Function Reflects Lack of Peer Support. *Cerebral Cortex*, **2021**, 31, 4612-4627	5.4	0
121	A collaborative resource platform for non-human primate neuroimaging. *NeuroImage*, **2021**, 226, 117519	7.9	14
120	Scaling Principles of White Matter Connectivity in the Human and Nonhuman Primate Brain. *Cerebral Cortex*, **2021**,	5.1	3
119	Diffusion MRI data, sulcal anatomy, and tractography for eight species from the Primate Brain Bank. *Brain Structure and Function*, **2021**, 226, 2497-2509	4	6
118	A Common Space Approach to Comparative Neuroscience. *Annual Review of Neuroscience*, **2021**, 44, 69-86	13.7	14
117	Functional parcellation of human and macaque striatum reveals human-specific connectivity in the dorsal caudate. *NeuroImage*, **2021**, 235, 118006	7.9	9
116	Connectivity gradients on tractography data: Pipeline and example applications. *Human Brain Mapping*, **2021**, 42, 5827-5845	5.9	1

115	Social prediction modulates activity of macaque superior temporal cortex. *Science Advances*, **2021**, 7, eabh2392	14.3	5
114	The Anticipatory and Task-Driven Nature of Visual Perception. *Cerebral Cortex*, **2021**, 31, 5354-5362	5.1	1
113	Cortical Morphology and White Matter Tractography of Three Phylogenetically Distant Primates: Evidence for a Simian Elaboration. *Cerebral Cortex*, **2021**,	5.1	2
112	Constructing OthersU Beliefs from OneUs Own Using Medial Frontal Cortex. *Journal of Neuroscience*, **2021**, 41, 9571-9580	6.6	1
111	Does the temporal cortex make us human? A review of structural and functional diversity of the primate temporal lobe. *Neuroscience and Biobehavioral Reviews*, **2021**, 131, 400-410	9	3
110	Tracking longitudinal language network reorganisation using functional MRI connectivity fingerprints. *NeuroImage: Clinical*, **2021**, 30, 102689	5.3	2
109	XTRACT - Standardised protocols for automated tractography in the human and macaque brain. *NeuroImage*, **2020**, 217, 116923	7.9	56
108	Behavioral flexibility is associated with changes in structure and function distributed across a frontal cortical network in macaques. *PLoS Biology*, **2020**, 18, e3000605	9.7	10
107	Principles of temporal association cortex organisation as revealed by connectivity gradients. *Brain Structure and Function*, **2020**, 225, 1245-1260	4	14
106	Brain gyrification in wild and domestic canids: Has domestication changed the gyrification index in domestic dogs?. *Journal of Comparative Neurology*, **2020**, 528, 3209-3228	3.4	6
105	Human Lateral Frontal Pole Contributes to Control over Emotional Approach-Avoidance Actions. *Journal of Neuroscience*, **2020**, 40, 2925-2934	6.6	16
104	Accelerating the Evolution of Nonhuman Primate Neuroimaging. *Neuron*, **2020**, 105, 600-603	13.9	51
103	Where is Cingulate Cortex? A Cross-Species View. *Trends in Neurosciences*, **2020**, 43, 285-299	13.3	57
102	A comprehensive atlas of white matter tracts in the chimpanzee. *PLoS Biology*, **2020**, 18, e3000971	9.7	11
101	Cross-species cortical alignment identifies different types of anatomical reorganization in the primate temporal lobe. *ELife*, **2020**, 9,	8.9	37
100	Primate homologs of mouse cortico-striatal circuits. *ELife*, **2020**, 9,	8.9	37
99	Processing of performance errors predicts memory formation: Enhanced feedback-related negativities for corrected versus repeated errors in an associative learning paradigm. *European Journal of Neuroscience*, **2020**, 51, 881-890	3.5	3
98	Longitudinal connections and the organization of the temporal cortex in macaques, great apes, and humans. *PLoS Biology*, **2020**, 18, e3000810	9.7	25

97	Mapping Human Laryngeal Motor Cortex during Vocalization. *Cerebral Cortex*, **2020**, 30, 6254-6269	5.1	14
96	Infants tailor their attention to maximize learning. *Science Advances*, **2020**, 6,	14.3	7
95	Manipulation of Subcortical and Deep Cortical Activity in the Primate Brain Using Transcranial Focused Ultrasound Stimulation. *Neuron*, **2019**, 101, 1109-1116.e5	13.9	115
94	What is special about the human arcuate fasciculus? Lateralization, projections, and expansion. *Cortex*, **2019**, 118, 107-115	3.8	54
93	Characterising neural plasticity at the single patient level using connectivity fingerprints. *NeuroImage: Clinical*, **2019**, 24, 101952	5.3	6
92	Control of entropy in neural models of environmental state. *ELife*, **2019**, 8,	8.9	28
91	Offline impact of transcranial focused ultrasound on cortical activation in primates. *ELife*, **2019**, 8,	8.9	97
90	Preserved extrastriate visual network in a monkey with substantial, naturally occurring damage to primary visual cortex. *ELife*, **2019**, 8,	8.9	11
89	Dichotomous organization of amygdala/temporal-prefrontal bundles in both humans and monkeys. *ELife*, **2019**, 8,	8.9	31
88	Concurrent analysis of white matter bundles and grey matter networks in the chimpanzee. *Brain Structure and Function*, **2019**, 224, 1021-1033	4	12
87	Mapping multiple principles of parietal-frontal cortical organization using functional connectivity. *Brain Structure and Function*, **2019**, 224, 681-697	4	9
86	The brain-structural correlates of mathematical expertise. *Cortex*, **2019**, 114, 140-150	3.8	11
85	Large-scale comparative neuroimaging: Where are we and what do we need?. *Cortex*, **2019**, 118, 188-202	3.8	21
84	Connectivity of the Cingulate Sulcus Visual Area (CSv) in the Human Cerebral Cortex. *Cerebral Cortex*, **2018**, 28, 713-725	5.1	20
83	The structural and functional brain networks that support human social networks. *Behavioural Brain Research*, **2018**, 355, 12-23	3.4	54
82	Connectivity and the search for specializations in the language-capable brain. *Current Opinion in Behavioral Sciences*, **2018**, 21, 19-26	4	32
81	Classification and treatment of antisocial individuals: From behavior to biocognition. *Neuroscience and Biobehavioral Reviews*, **2018**, 91, 259-277	9	55
80	Computing the Social Brain Connectome Across Systems and States. *Cerebral Cortex*, **2018**, 28, 2207-2232	5.1	76

79	Is the extrastriate body area part of the dorsal visuomotor stream?. *Brain Structure and Function*, **2018**, 223, 31-46	4	32
78	Macro-connectomics and microstructure predict dynamic plasticity patterns in the non-human primate brain. *ELife*, **2018**, 7,	8.9	17
77	Whole brain comparative anatomy using connectivity blueprints. *ELife*, **2018**, 7,	8.9	75
76	Affective traits of psychopathy are linked to white-matter abnormalities in impulsive male offenders. *Neuropsychology*, **2018**, 32, 735-745	3.8	12
75	Lateral frontal pole and relational processing: Activation patterns and connectivity profile. *Behavioural Brain Research*, **2018**, 355, 2-11	3.4	11
74	Emotional control, reappraised. *Neuroscience and Biobehavioral Reviews*, **2018**, 95, 528-534	9	26
73	An Open Resource for Non-human Primate Imaging. *Neuron*, **2018**, 100, 61-74.e2	13.9	103
72	Connectivity Fingerprints: From Areal Descriptions to Abstract Spaces. *Trends in Cognitive Sciences*, **2018**, 22, 1026-1037	14	83
71	Specifying the brain anatomy underlying temporo-parietal junction activations for theory of mind: A review using probabilistic atlases from different imaging modalities. *Human Brain Mapping*, **2017**, 38, 4788-4805	5.9	75
70	Transcranial magnetic stimulation to dorsolateral prefrontal cortex affects conflict-induced behavioural adaptation in a Wisconsin Card Sorting Test analogue. *Neuropsychologia*, **2017**, 94, 36-43	3.2	17
69	The extreme capsule fiber complex in humans and macaque monkeys: a comparative diffusion MRI tractography study. *Brain Structure and Function*, **2016**, 221, 4059-4071	4	71
68	Comparing brains by matching connectivity profiles. *Neuroscience and Biobehavioral Reviews*, **2016**, 60, 90-7	9	71
67	Task-free MRI predicts individual differences in brain activity during task performance. *Science*, **2016**, 352, 216-20	33.3	432
66	Value, search, persistence and model updating in anterior cingulate cortex. *Nature Neuroscience*, **2016**, 19, 1280-5	25.5	237
65	Bayesian Models in Cognitive Neuroscience: A Tutorial **2015**, 179-197		1
64	Connectivity reveals relationship of brain areas for reward-guided learning and decision making in human and monkey frontal cortex. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, E2695-704	11.5	229
63	Causal manipulation of functional connectivity in a specific neural pathway during behaviour and at rest. *ELife*, **2015**, 4,	8.9	28
62	Comparison of human ventral frontal cortex areas for cognitive control and language with areas in monkey frontal cortex. *Neuron*, **2014**, 81, 700-13	13.9	275

61	Primate comparative neuroscience using magnetic resonance imaging: promises and challenges. *Frontiers in Neuroscience*, **2014**, 8, 298	5.1	38
60	Comparing Connections in the Brains of Humans and Other Primates Using Diffusion-Weighted Imaging **2014**, 569-584		1
59	A neural circuit covarying with social hierarchy in macaques. *PLoS Biology*, **2014**, 12, e1001940	9.7	106
58	The organization of dorsal frontal cortex in humans and macaques. *Journal of Neuroscience*, **2013**, 33, 12255-74	6.6	281
57	Causal effect of disconnection lesions on interhemispheric functional connectivity in rhesus monkeys. *Proceedings of the National Academy of Sciences of the United States of America*, **2013**, 110, 13982-7	11.5	152
56	Are there specialized circuits for social cognition and are they unique to humans?. *Current Opinion in Neurobiology*, **2013**, 23, 436-42	7.6	117
55	Dissociable effects of surprise and model update in parietal and anterior cingulate cortex. *Proceedings of the National Academy of Sciences of the United States of America*, **2013**, 110, E3660-9	11.5	204
54	Connectivity profiles reveal the relationship between brain areas for social cognition in human and monkey temporoparietal cortex. *Proceedings of the National Academy of Sciences of the United States of America*, **2013**, 110, 10806-11	11.5	125
53	Psychopathy-related traits and the use of reward and social information: a computational approach. *Frontiers in Psychology*, **2013**, 4, 952	3.4	9
52	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. *Frontiers in Human Neuroscience*, **2013**, 7, 736	3.3	5
51	Valuation and decision-making in frontal cortex: one or many serial or parallel systems?. *Current Opinion in Neurobiology*, **2012**, 22, 946-55	7.6	203
50	Neural mechanisms of foraging. *Science*, **2012**, 336, 95-8	33.3	399
49	Connectivity-based subdivisions of the human right "temporoparietal junction area": evidence for different areas participating in different cortical networks. *Cerebral Cortex*, **2012**, 22, 1894-903	5.1	383
48	Controlling human striatal cognitive function via the frontal cortex. *Journal of Neuroscience*, **2012**, 32, 5631-7	6.6	50
47	Neuroscience: a more dynamic view of the social brain. *Current Biology*, **2012**, 22, R994-5	6.3	3
46	Model-based analyses: Promises, pitfalls, and example applications to the study of cognitive control. *Quarterly Journal of Experimental Psychology*, **2012**, 65, 252-67	1.8	32
45	Your mistake is my mistake or is it? Behavioural adjustments following own and observed actions in cooperative and competitive contexts. *Quarterly Journal of Experimental Psychology*, **2012**, 65, 317-25	1.8	17
44	On the relationship between the "default mode network" and the "social brain". *Frontiers in Human Neuroscience*, **2012**, 6, 189	3.3	418

43	A neurophysiological dissociation between monitoring one's own and others' actions in psychopathy. *Biological Psychiatry*, **2011**, 69, 693-9	7.9	42
42	Making mirrors: premotor cortex stimulation enhances mirror and counter-mirror motor facilitation. *Journal of Cognitive Neuroscience*, **2011**, 23, 2352-62	3.1	126
41	Social network size affects neural circuits in macaques. *Science*, **2011**, 334, 697-700	33.3	332
40	Computational neuroimaging: localising Greek letters? Comment on Forstmann et al. *Trends in Cognitive Sciences*, **2011**, 15, 450	14	10
39	Modulation of short intra-cortical inhibition during action reprogramming. *Experimental Brain Research*, **2011**, 211, 265-76	2.3	20
38	Distinct roles of three frontal cortical areas in reward-guided behavior. *Journal of Neuroscience*, **2011**, 31, 14399-412	6.6	108
37	Distributed and causal influence of frontal operculum in task control. *Proceedings of the National Academy of Sciences of the United States of America*, **2011**, 108, 4230-5	11.5	101
36	Functional connectivity of the striatum links motivation to action control in humans. *Journal of Neuroscience*, **2011**, 31, 10701-11	6.6	72
35	Diffusion-weighted imaging tractography-based parcellation of the human parietal cortex and comparison with human and macaque resting-state functional connectivity. *Journal of Neuroscience* , **2011**, 31, 4087-100	6.6	394
34	A network centered on ventral premotor cortex exerts both facilitatory and inhibitory control over primary motor cortex during action reprogramming. *Journal of Neuroscience*, **2010**, 30, 1395-401	6.6	113
33	Cortical and subcortical interactions during action reprogramming and their related white matter pathways. *Proceedings of the National Academy of Sciences of the United States of America*, **2010**, 107, 13240-5	11.5	193
32	On the neural control of social emotional behavior. *Social Cognitive and Affective Neuroscience*, **2009**, 4, 50-8	4	110
31	Short-latency influence of medial frontal cortex on primary motor cortex during action selection under conflict. *Journal of Neuroscience*, **2009**, 29, 6926-31	6.6	129
30	When the brain changes its mind: flexibility of action selection in instructed and free choices. *Cerebral Cortex*, **2009**, 19, 2352-60	5.1	34
29	General mechanisms for making decisions?. *Current Opinion in Neurobiology*, **2009**, 19, 75-83	7.6	92
28	Influence of uncertainty and surprise on human corticospinal excitability during preparation for action. *Current Biology*, **2008**, 18, 775-780	6.3	102
27	Delay-related cerebral activity and motor preparation. *Cortex*, **2008**, 44, 507-20	3.8	25
26	Trial-by-trial fluctuations in the event-related electroencephalogram reflect dynamic changes in the degree of surprise. *Journal of Neuroscience*, **2008**, 28, 12539-45	6.6	168

25	Online maintenance of sensory and motor representations: effects on corticospinal excitability. *Journal of Neurophysiology*, **2007**, 97, 1642-8	3.2	27
24	Probing human and monkey anterior cingulate cortex in variable environments. *Cognitive, Affective and Behavioral Neuroscience*, **2007**, 7, 413-22	3.5	31
23	Effects of motor preparation and spatial attention on corticospinal excitability in a delayed-response paradigm. *Experimental Brain Research*, **2007**, 182, 125-9	2.3	61
22	Dorsolateral prefrontal cortex, working memory, and prospective coding for action. *Journal of Neuroscience*, **2007**, 27, 1801-2	6.6	38
21	Error-likelihood prediction in the medial frontal cortex: a critical evaluation. *Cerebral Cortex*, **2007**, 17, 1570-81	5.1	63
20	On the programming and reprogramming of actions. *Cerebral Cortex*, **2007**, 17, 2972-9	5.1	71
19	The right hippocampus participates in short-term memory maintenance of object-location associations. *NeuroImage*, **2006**, 33, 374-82	7.9	167
18	Activity in human reward-sensitive brain areas is strongly context dependent. *NeuroImage*, **2005**, 25, 1302-9	7.9	239
17	Neural dynamics of error processing in medial frontal cortex. *NeuroImage*, **2005**, 28, 1007-13	7.9	122
16	Processing of visual semantic information to concrete words: temporal dynamics and neural mechanisms indicated by event-related brain potentials( ). *Cognitive Neuropsychology*, **2005**, 22, 364-86	2.3	34
15	Dorsal anterior cingulate cortex shows fMRI response to internal and external error signals. *Nature Neuroscience*, **2004**, 7, 497-8	25.5	378
14	Modulation of activity in medial frontal and motor cortices during error observation. *Nature Neuroscience*, **2004**, 7, 549-54	25.5	336
13	Mapping human laryngeal motor cortex during vocalization		1
12	Whole brain comparative anatomy using connectivity blueprints		1
11	Two fiber pathways connecting amygdala and prefrontal cortex in humans and monkeys		1
10	Human lateral Frontal Pole contributes to control over social-emotional action		3
9	A comprehensive atlas of white matter tracts in the chimpanzee		2
8	Morphological and functional variability in central and subcentral motor cortex of the human brain		5

List of Publications

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6	Manipulation of subcortical and deep cortical activity in the primate brain using transcranial focused ultrasound stimulation		2
5	Cross-species cortical alignment identifies different types of neuroanatomical reorganization in the temporal lobe of higher primates		5
4	Primate homologs of mouse cortico-striatal circuits		2
3	The Digital Brain Bank, an open access platform for post-mortem datasets		2
2	Social prediction modulates activity of macaque superior temporal cortex		1
1	Dissociating the functional roles of arcuate fasciculus subtracts in speech production. *Cerebral Cortex*,	5.1	1