

# Christian Keyzers

## 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.

114  
papers

18,624  
citations

58  
h-index

136  
g-index

140  
ext. papers

21,580  
ext. citations

6.7  
avg, IF

6.94  
L-index

#	Paper	IF	Citations
114	Both of us disgusted in My insula: the common neural basis of seeing and feeling disgust. <i>Neuron</i> , <b>2003</b> , 40, 655-64	13.9	1682
113	A unifying view of the basis of social cognition. <i>Trends in Cognitive Sciences</i> , <b>2004</b> , 8, 396-403	14	1419
112	Hearing sounds, understanding actions: action representation in mirror neurons. <i>Science</i> , <b>2002</b> , 297, 846-853	33.3	1338
111	The autism brain imaging data exchange: towards a large-scale evaluation of the intrinsic brain architecture in autism. <i>Molecular Psychiatry</i> , <b>2014</b> , 19, 659-67	15.1	1182
110	I know what you are doing. a neurophysiological study. <i>Neuron</i> , <b>2001</b> , 31, 155-65	13.9	899
109	Brain-to-brain coupling: a mechanism for creating and sharing a social world. <i>Trends in Cognitive Sciences</i> , <b>2012</b> , 16, 114-21	14	635
108	A touching sight: SII/PV activation during the observation and experience of touch. <i>Neuron</i> , <b>2004</b> , 42, 335-46	13.9	634
107	Somatosensation in social perception. <i>Nature Reviews Neuroscience</i> , <b>2010</b> , 11, 417-28	13.5	586
106	Empathy and the somatotopic auditory mirror system in humans. <i>Current Biology</i> , <b>2006</b> , 16, 1824-9	6.3	549
105	The observation and execution of actions share motor and somatosensory voxels in all tested subjects: single-subject analyses of unsmoothed fMRI data. <i>Cerebral Cortex</i> , <b>2009</b> , 19, 1239-55	5.1	540
104	The anthropomorphic brain: the mirror neuron system responds to human and robotic actions. <i>NeuroImage</i> , <b>2007</b> , 35, 1674-84	7.9	522
103	Demystifying social cognition: a Hebbian perspective. <i>Trends in Cognitive Sciences</i> , <b>2004</b> , 8, 501-7	14	453
102	Empathy for positive and negative emotions in the gustatory cortex. <i>NeuroImage</i> , <b>2007</b> , 34, 1744-53	7.9	425
101	Integrating simulation and theory of mind: from self to social cognition. <i>Trends in Cognitive Sciences</i> , <b>2007</b> , 11, 194-6	14	389
100	Audiovisual mirror neurons and action recognition. <i>Experimental Brain Research</i> , <b>2003</b> , 153, 628-36	2.3	324
99	Expanding the mirror: vicarious activity for actions, emotions, and sensations. <i>Current Opinion in Neurobiology</i> , <b>2009</b> , 19, 666-71	7.6	284
98	The speed of sight. <i>Journal of Cognitive Neuroscience</i> , <b>2001</b> , 13, 90-101	3.1	268

97	Mapping the information flow from one brain to another during gestural communication. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2010</b> , 107, 9388-93	11.5	253
96	Facial expressions: what the mirror neuron system can and cannot tell us. <i>Social Neuroscience</i> , <b>2007</b> , 2, 179-222	2	241
95	Evidence for mirror systems in emotions. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , <b>2009</b> , 364, 2391-404	5.8	238
94	Reduced spontaneous but relatively normal deliberate vicarious representations in psychopathy. <i>Brain</i> , <b>2013</b> , 136, 2550-62	11.2	222
93	Towards a unifying neural theory of social cognition. <i>Progress in Brain Research</i> , <b>2006</b> , 156, 379-401	2.9	217
92	A common anterior insula representation of disgust observation, experience and imagination shows divergent functional connectivity pathways. <i>PLoS ONE</i> , <b>2008</b> , 3, e2939	3.7	211
91	Suppression during action observation and execution correlates with BOLD in dorsal premotor, inferior parietal, and SI cortices. <i>Journal of Neuroscience</i> , <b>2011</b> , 31, 14243-9	6.6	205
90	Probabilistic tractography recovers a rostrocaudal trajectory of connectivity variability in the human insular cortex. <i>Human Brain Mapping</i> , <b>2012</b> , 33, 2005-34	5.9	200
89	Primary somatosensory cortex discriminates affective significance in social touch. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2012</b> , 109, E1657-66	11.5	195
88	Visual masking and RSVP reveal neural competition. <i>Trends in Cognitive Sciences</i> , <b>2002</b> , 6, 120-125	14	189
87	Increased Functional Connectivity Between Subcortical and Cortical Resting-State Networks in Autism Spectrum Disorder. <i>JAMA Psychiatry</i> , <b>2015</b> , 72, 767-77	14.5	185
86	Aplasics born without hands mirror the goal of hand actions with their feet. <i>Current Biology</i> , <b>2007</b> , 17, 1235-40	6.3	167
85	Programmed to learn? The ontogeny of mirror neurons. <i>Developmental Science</i> , <b>2009</b> , 12, 350-63	4.5	165
84	Synchronized drumming enhances activity in the caudate and facilitates prosocial commitment--if the rhythm comes easily. <i>PLoS ONE</i> , <b>2011</b> , 6, e27272	3.7	147
83	Social neuroscience: mirror neurons recorded in humans. <i>Current Biology</i> , <b>2010</b> , 20, R353-4	6.3	138
82	Mapping the flow of information within the putative mirror neuron system during gesture observation. <i>NeuroImage</i> , <b>2011</b> , 57, 37-44	7.9	137
81	Noradrenergic enhancement of amygdala responses to fear. <i>Social Cognitive and Affective Neuroscience</i> , <b>2009</b> , 4, 119-26	4	129
80	Using Bayes factor hypothesis testing in neuroscience to establish evidence of absence. <i>Nature Neuroscience</i> , <b>2020</b> , 23, 788-799	25.5	128

79	Inferior frontal gyrus activity triggers anterior insula response to emotional facial expressions. <i>Emotion</i> , <b>2008</b> , 8, 775-80	4.1	125
78	The Anatomy of Suffering: Understanding the Relationship between Nociceptive and Empathic Pain. <i>Trends in Cognitive Sciences</i> , <b>2016</b> , 20, 249-259	14	119
77	Experience modulates vicarious freezing in rats: a model for empathy. <i>PLoS ONE</i> , <b>2011</b> , 6, e21855	3.7	119
76	Diagnosing autism spectrum disorders in adults: the use of Autism Diagnostic Observation Schedule (ADOS) module 4. <i>Journal of Autism and Developmental Disorders</i> , <b>2011</b> , 41, 1256-66	4.6	119
75	Acting together in and beyond the mirror neuron system. <i>NeuroImage</i> , <b>2009</b> , 47, 2046-56	7.9	112
74	Human amygdala reactivity is diminished by the $\beta$ -adrenergic antagonist propranolol. <i>Psychological Medicine</i> , <b>2010</b> , 40, 1839-48	6.9	109
73	The mirror neuron system: new frontiers. <i>Social Neuroscience</i> , <b>2008</b> , 3, 193-8	2	103
72	Hebbian learning and predictive mirror neurons for actions, sensations and emotions. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , <b>2014</b> , 369, 20130175	5.8	99
71	Modeling a negative response bias in the human amygdala by noradrenergic-glucocorticoid interactions. <i>Journal of Neuroscience</i> , <b>2008</b> , 28, 12868-76	6.6	97
70	Measuring shared responses across subjects using intersubject correlation. <i>Social Cognitive and Affective Neuroscience</i> , <b>2019</b> , 14, 667-685	4	95
69	Dissociating the ability and propensity for empathy. <i>Trends in Cognitive Sciences</i> , <b>2014</b> , 18, 163-6	14	92
68	Group analyses of connectivity-based cortical parcellation using repeated k-means clustering. <i>NeuroImage</i> , <b>2009</b> , 47, 1666-77	7.9	92
67	Testing simulation theory with cross-modal multivariate classification of fMRI data. <i>PLoS ONE</i> , <b>2008</b> , 3, e3690	3.7	82
66	The effect of intra- and inter-subject variability of hemodynamic responses on group level Granger causality analyses. <i>NeuroImage</i> , <b>2011</b> , 57, 22-36	7.9	80
65	Emotional Mirror Neurons in the Rat's Anterior Cingulate Cortex. <i>Current Biology</i> , <b>2019</b> , 29, 1301-1312.e6.3	6.3	79
64	O6.2. NEUROBIOLOGY OF PSYCHOMETRIC SCHIZOTYPY: INSIGHTS FROM MULTIMODAL IMAGING RESEARCH. <i>Schizophrenia Bulletin</i> , <b>2018</b> , 44, S89-S90	1.3	78
63	Neural pathways of embarrassment and their modulation by social anxiety. <i>NeuroImage</i> , <b>2015</b> , 119, 252-261	7.9	75
62	An introduction to anatomical ROI-based fMRI classification analysis. <i>Brain Research</i> , <b>2009</b> , 1282, 114-253.7	3.7	71

61	Age-related increase in inferior frontal gyrus activity and social functioning in autism spectrum disorder. <i>Biological Psychiatry</i> , <b>2011</b> , 69, 832-8	7.9	70
60	Mirror neurons. <i>Current Biology</i> , <b>2009</b> , 19, R971-3	6.3	66
59	Color sensitivity of cells responsive to complex stimuli in the temporal cortex. <i>Journal of Neurophysiology</i> , <b>2003</b> , 90, 1245-56	3.2	64
58	Action understanding: how, what and why. <i>Current Biology</i> , <b>2008</b> , 18, R431-R434	6.3	62
57	Playing charades in the fMRI: are mirror and/or mentalizing areas involved in gestural communication?. <i>PLoS ONE</i> , <b>2009</b> , 4, e6801	3.7	61
56	Seeing the future: Natural image sequences produce "anticipatory" neuronal activity and bias perceptual report. <i>Quarterly Journal of Experimental Psychology</i> , <b>2009</b> , 62, 2081-104	1.8	54
55	Neuronal representation of disappearing and hidden objects in temporal cortex of the macaque. <i>Experimental Brain Research</i> , <b>2001</b> , 140, 375-81	2.3	53
54	The BOLD signal in the amygdala does not differentiate between dynamic facial expressions. <i>Social Cognitive and Affective Neuroscience</i> , <b>2007</b> , 2, 93-103	4	48
53	Oxytocin reduces neural activity in the pain circuitry when seeing pain in others. <i>NeuroImage</i> , <b>2015</b> , 113, 217-224	7.9	47
52	Out of sight but not out of mind: the neurophysiology of iconic memory in the superior temporal sulcus. <i>Cognitive Neuropsychology</i> , <b>2005</b> , 22, 316-32	2.3	44
51	ctBS delivered to the left somatosensory cortex changes its functional connectivity during rest. <i>NeuroImage</i> , <b>2015</b> , 114, 386-397	7.9	42
50	Rapid serial visual presentation for the determination of neural selectivity in area STSa. <i>Progress in Brain Research</i> , <b>2004</b> , 144, 107-16	2.9	42
49	Evidence for physiological asymmetries in the intertectal connections of the pigeon ( <i>Columba livia</i> ) and their potential role in brain lateralisation. <i>Brain Research</i> , <b>2000</b> , 852, 406-13	3.7	35
48	Vicarious neural processing of outcomes during observational learning. <i>PLoS ONE</i> , <b>2013</b> , 8, e73879	3.7	34
47	The causal role of the somatosensory cortex in prosocial behaviour. <i>ELife</i> , <b>2018</b> , 7,	8.9	33
46	Inter-individual differences in audio-motor learning of piano melodies and white matter fiber tract architecture. <i>Human Brain Mapping</i> , <b>2014</b> , 35, 2483-97	5.9	33
45	Responsibility modulates pain-matrix activation elicited by the expressions of others in pain. <i>NeuroImage</i> , <b>2015</b> , 114, 371-8	7.9	30
44	Primary somatosensory contribution to action observation brain activity-combining fMRI and ctBS. <i>Social Cognitive and Affective Neuroscience</i> , <b>2016</b> , 11, 1205-17	4	30

43	Learning piano melodies in visuo-motor or audio-motor training conditions and the neural correlates of their cross-modal transfer. <i>NeuroImage</i> , <b>2012</b> , 63, 966-78	7.9	30
42	Puddles, parties, and professors: linking word categorization to neural patterns of visuospatial coding. <i>Journal of Cognitive Neuroscience</i> , <b>2011</b> , 23, 2636-49	3.1	26
41	Harm to Others Acts as a Negative Reinforcer in Rats. <i>Current Biology</i> , <b>2020</b> , 30, 949-961.e7	6.3	25
40	Pharmacology of sensory gating in the ascending auditory system of the pigeon ( <i>Columba livia</i> ). <i>Psychopharmacology</i> , <b>1999</b> , 145, 273-82	4.7	25
39	The impact of certain methodological choices on multivariate analysis of fMRI data with support vector machines. <i>NeuroImage</i> , <b>2011</b> , 54, 1159-67	7.9	24
38	EEG sensorimotor correlates of translating sounds into actions. <i>Frontiers in Neuroscience</i> , <b>2013</b> , 7, 203	5.1	23
37	Repeated Witnessing of Conspecifics in Pain: Effects on Emotional Contagion. <i>PLoS ONE</i> , <b>2015</b> , 10, e0136979	5.7	22
36	Granger causality mapping during joint actions reveals evidence for forward models that could overcome sensory-motor delays. <i>PLoS ONE</i> , <b>2010</b> , 5, e13507	3.7	22
35	Early Life Adversity and Adult Social Behavior: Focus on Arginine Vasopressin and Oxytocin as Potential Mediators. <i>Frontiers in Behavioral Neuroscience</i> , <b>2019</b> , 13, 143	3.5	20
34	Bidirectional cingulate-dependent danger information transfer across rats. <i>PLoS Biology</i> , <b>2019</b> , 17, e3000524	9.7	19
33	Reply: Spontaneous versus deliberate vicarious representations: different routes to empathy in psychopathy and autism. <i>Brain</i> , <b>2014</b> , 137, e273	11.2	18
32	Neural activities during affective processing in people with Alzheimer's disease. <i>Neurobiology of Aging</i> , <b>2013</b> , 34, 706-15	5.6	17
31	What neuromodulation and lesion studies tell us about the function of the mirror neuron system and embodied cognition. <i>Current Opinion in Psychology</i> , <b>2018</b> , 24, 35-40	6.2	16
30	Functional magnetic resonance imaging connectivity analyses reveal efference-copy to primary somatosensory area, BA2. <i>PLoS ONE</i> , <b>2014</b> , 9, e84367	3.7	16
29	Action perception recruits the cerebellum and is impaired in patients with spinocerebellar ataxia. <i>Brain</i> , <b>2019</b> , 142, 3791-3805	11.2	16
28	Corticolimbic hyper-response to emotion and glutamatergic function in people with high schizotypy: a multimodal fMRI-MRS study. <i>Translational Psychiatry</i> , <b>2017</b> , 7, e1083	8.6	15
27	Weight dependent modulation of motor resonance induced by weight estimation during observation of partially occluded lifting actions. <i>Neuropsychologia</i> , <b>2015</b> , 66, 237-45	3.2	15
26	Object visibility alters the relative contribution of ventral visual stream and mirror neuron system to goal anticipation during action observation. <i>NeuroImage</i> , <b>2015</b> , 105, 380-94	7.9	15

25	Mirroring fear in the absence of a functional amygdala. <i>Biological Psychiatry</i> , <b>2013</b> , 73, e9-11	7.9	15
24	Empathy: shared circuits and their dysfunctions. <i>Dialogues in Clinical Neuroscience</i> , <b>2010</b> , 12, 546-52	5.7	15
23	A Plea for Cross-species Social Neuroscience. <i>Current Topics in Behavioral Neurosciences</i> , <b>2017</b> , 30, 179-194	7.1	12
22	Where and how our brain represents the temporal structure of observed action. <i>NeuroImage</i> , <b>2018</b> , 183, 677-697	7.9	11
21	Hebbian Learning is about contingency, not contiguity, and explains the emergence of predictive mirror neurons. <i>Behavioral and Brain Sciences</i> , <b>2014</b> , 37, 205-6	0.9	10
20	Representing Multiple Observed Actions in the Motor System. <i>Cerebral Cortex</i> , <b>2019</b> , 29, 3631-3641	5.1	10
19	Does higher sampling rate (multiband + SENSE) improve group statistics - An example from social neuroscience block design at 3T. <i>NeuroImage</i> , <b>2020</b> , 213, 116731	7.9	9
18	Obedying orders reduces vicarious brain activation towards victims' pain. <i>NeuroImage</i> , <b>2020</b> , 222, 117251	7.9	9
17	Changes in brain activity following the voluntary control of empathy. <i>NeuroImage</i> , <b>2020</b> , 216, 116529	7.9	8
16	Neural mechanisms necessary for empathy-related phenomena across species. <i>Current Opinion in Neurobiology</i> , <b>2021</b> , 68, 107-115	7.6	8
15	Negativity-bias in forming beliefs about own abilities. <i>Scientific Reports</i> , <b>2019</b> , 9, 14416	4.9	7
14	Measuring shared responses across subjects using intersubject correlation		7
13	Similar levels of emotional contagion in male and female rats. <i>Scientific Reports</i> , <b>2020</b> , 10, 2763	4.9	6
12	Unifying Social Cognition <b>2008</b> , 1-35		6
11	Is Brain Activity during Action Observation Modulated by the Perceived Fairness of the Actor?. <i>PLoS ONE</i> , <b>2016</b> , 11, e0145350	3.7	5
10	Neural Correlates of Empathy in Humans, and the Need for Animal Models <b>2018</b> , 37-52		4
9	How to Make Social Neuroscience Social. <i>Psychological Inquiry</i> , <b>2011</b> , 22, 210-216	2	4
8	Mirror neurons: A sensorimotor representation system. <i>Behavioral and Brain Sciences</i> , <b>2001</b> , 24, 983-984	0.9	4

7	From Vicarious Actions to Moral Behavior. <i>Issues in Science and Religion: Publications of the European Society for the Study of Science and Theology</i> , <b>2016</b> , 99-118	0.1	2
6	Bayesian statistics show a lack of change in excitability following bi-hemispheric HD-TDCS over the primary somatosensory cortices. <i>Brain Stimulation</i> , <b>2020</b> , 13, 640-642	5.1	1
5	Broca's Area: Linking Perception and Production in Language and Actions. <i>On Thinking</i> , <b>2011</b> , 169-184		1
4	Cingulate dependent social risk assessment in rats		1
3	Harm to others acts as a cingulate dependent negative reinforcer in rat		1
2	Predictive coding during action observation - A depth-resolved intersubject functional correlation study at 7T.. <i>Cortex</i> , <b>2022</b> , 148, 121-138	3.8	0
1	Emotional contagion: Improving survival by preparing for socially sensed threats. <i>Current Biology</i> , <b>2021</b> , 31, R728-R730	6.3	0