James Kilner

List of Publications by Citations

78 papers	10,641 citations	45 h-index	81 g-index
81 ext. papers	12,359 ext. citations	5.6 avg, IF	6.45 L-index

#	Paper	IF	Citations
78	The mismatch negativity: a review of underlying mechanisms. *Clinical Neurophysiology*, **2009**, 120, 453-63	4.3	802
77	An interference effect of observed biological movement on action. *Current Biology*, **2003**, 13, 522-5	6.3	697
76	Predictive coding: an account of the mirror neuron system. *Cognitive Processing*, **2007**, 8, 159-66	1.5	663
75	A free energy principle for the brain. *Journal of Physiology (Paris)*, **2006**, 100, 70-87		593
74	Action and behavior: a free-energy formulation. *Biological Cybernetics*, **2010**, 102, 227-60	2.8	517
73	Dynamic causal modeling of evoked responses in EEG and MEG. *NeuroImage*, **2006**, 30, 1255-72	7.9	456
72	Action understanding and active inference. *Biological Cybernetics*, **2011**, 104, 137-60	2.8	427
71	Evidence of mirror neurons in human inferior frontal gyrus. *Journal of Neuroscience*, **2009**, 29, 10153-9	6.6	401
70	EEG and MEG data analysis in SPM8. *Computational Intelligence and Neuroscience*, **2011**, 2011, 852961	3	398
69	Brain systems for assessing facial attractiveness. *Neuropsychologia*, **2007**, 45, 195-206	3.2	311
68	Human cortical muscle coherence is directly related to specific motor parameters. *Journal of Neuroscience*, **2000**, 20, 8838-45	6.6	310
67	More than one pathway to action understanding. *Trends in Cognitive Sciences*, **2011**, 15, 352-7	14	296
66	Motor activation prior to observation of a predicted movement. *Nature Neuroscience*, **2004**, 7, 1299-301	25.5	293
65	The role of synchrony and oscillations in the motor output. *Experimental Brain Research*, **1999**, 128, 109-17	2.3	293
64	The functional anatomy of the MMN: a DCM study of the roving paradigm. *NeuroImage*, **2008**, 42, 936-44	7.9	277
63	The mirror-neuron system: a Bayesian perspective. *NeuroReport*, **2007**, 18, 619-23	1.7	244
62	Integrated neural representations of odor intensity and affective valence in human amygdala. *Journal of Neuroscience*, **2005**, 25, 8903-7	6.6	228

61	Mechanisms of evoked and induced responses in MEG/EEG. *NeuroImage*, **2006**, 31, 1580-91	7.9	199
60	Evoked brain responses are generated by feedback loops. *Proceedings of the National Academy of Sciences of the United States of America*, **2007**, 104, 20961-6	11.5	198
59	What we know currently about mirror neurons. *Current Biology*, **2013**, 23, R1057-62	6.3	194
58	Hemodynamic correlates of EEG: a heuristic. *NeuroImage*, **2005**, 28, 280-6	7.9	170
57	Dynamic causal modelling of evoked potentials: a reproducibility study. *NeuroImage*, **2007**, 36, 571-80	7.9	162
56	Interference effect of observed human movement on action is due to velocity profile of biological motion. *Social Neuroscience*, **2007**, 2, 158-66	2	140
55	Repetition suppression and plasticity in the human brain. *NeuroImage*, **2009**, 48, 269-79	7.9	135
54	Dynamic causal modeling of the response to frequency deviants. *Journal of Neurophysiology*, **2009**, 101, 2620-31	3.2	128
53	Modulation of the mirror system by social relevance. *Social Cognitive and Affective Neuroscience*, **2006**, 1, 143-8	4	128
52	Applications of random field theory to electrophysiology. *Neuroscience Letters*, **2005**, 374, 174-8	3.3	110
51	Role of the parietal cortex in predicting incoming actions. *NeuroImage*, **2012**, 59, 556-64	7.9	84
50	Estimating the transfer function from neuronal activity to BOLD using simultaneous EEG-fMRI. *NeuroImage*, **2010**, 49, 1496-509	7.9	82
49	Dynamic modulation of human motor activity when observing actions. *Journal of Neuroscience*, **2011**, 31, 2792-800	6.6	81
48	Relationship between activity in human primary motor cortex during action observation and the mirror neuron system. *PLoS ONE*, **2009**, 4, e4925	3.7	80
47	Forward and backward connections in the brain: a DCM study of functional asymmetries. *NeuroImage*, **2009**, 45, 453-62	7.9	78
46	Dissociable roles of human inferior frontal gyrus during action execution and observation. *NeuroImage*, **2012**, 60, 1671-7	7.9	75
45	Task-dependent modulations of cortical oscillatory activity in human subjects during a bimanual precision grip task. *NeuroImage*, **2003**, 18, 67-73	7.9	75
44	The role of interoceptive inference in theory of mind. *Brain and Cognition*, **2017**, 112, 64-68	2.7	71

43	Acquisition of Paleolithic toolmaking abilities involves structural remodeling to inferior frontoparietal regions. *Brain Structure and Function*, **2015**, 220, 2315-31	4	70
42	Event-related brain dynamics. *Trends in Neurosciences*, **2002**, 25, 387-9	13.3	70
41	Learning to understand others' actions. *Biology Letters*, **2011**, 7, 457-60	3.6	69
40	Bias in a common EEG and MEG statistical analysis and how to avoid it. *Clinical Neurophysiology*, **2013**, 124, 2062-3	4.3	61
39	Modulation of synchrony between single motor units during precision grip tasks in humans. *Journal of Physiology*, **2002**, 541, 937-48	3.9	61
38	Coupling of oscillatory activity between muscles is strikingly reduced in a deafferented subject compared with normal controls. *Journal of Neurophysiology*, **2004**, 92, 790-6	3.2	58
37	A novel algorithm to remove electrical cross-talk between surface EMG recordings and its application to the measurement of short-term synchronisation in humans. *Journal of Physiology*, **2002**, 538, 919-30	3.9	57
36	Facial Emotion Recognition and Expression in Parkinson's Disease: An Emotional Mirror Mechanism?. *PLoS ONE*, **2017**, 12, e0169110	3.7	55
35	Action observation: inferring intentions without mirror neurons. *Current Biology*, **2008**, 18, R32-3	6.3	48
34	Dysconnectivity in the frontoparietal attention network in schizophrenia. *Frontiers in Psychiatry*, **2013**, 4, 176	5	45
33	What is simulated in the action observation network when we observe actions?. *European Journal of Neuroscience*, **2010**, 32, 1765-70	3.5	44
32	Nonlinear coupling in the human motor system. *Journal of Neuroscience*, **2010**, 30, 8393-9	6.6	43
31	Inferring subjective states through the observation of actions. *Proceedings of the Royal Society B: Biological Sciences*, **2012**, 279, 4853-60	4.4	43
30	A possible role for primary motor cortex during action observation. *Proceedings of the National Academy of Sciences of the United States of America*, **2007**, 104, 8683-4	11.5	38
29	A dynamic causal model for evoked and induced responses. *NeuroImage*, **2012**, 59, 340-8	7.9	37
28	Modulations in the degree of synchronization during ongoing oscillatory activity in the human brain. *European Journal of Neuroscience*, **2005**, 21, 2547-54	3.5	33
27	Children on the autism spectrum update their behaviour in response to a volatile environment. *Developmental Science*, **2017**, 20, e12435	4.5	32
26	Vowel-specific mismatch responses in the anterior superior temporal gyrus: an fMRI study. *Cortex*, **2009**, 45, 517-26	3.8	32

25	Augmentation of induced visual gamma activity by increased task complexity. *European Journal of Neuroscience*, **2003**, 18, 2351-6	3.5	30
24	Active sampling in visual search is coupled to the cardiac cycle. *Cognition*, **2020**, 196, 104149	3.5	29
23	Neural correlates of perceptual filling-in of an artificial scotoma in humans. *Proceedings of the National Academy of Sciences of the United States of America*, **2007**, 104, 5211-6	11.5	28
22	A New Framework to Explain Sensorimotor Beta Oscillations. *Trends in Cognitive Sciences*, **2016**, 20, 321-323	14	25
21	An fMRI study of joint action-varying levels of cooperation correlates with activity in control networks. *Frontiers in Human Neuroscience*, **2012**, 6, 179	3.3	23
20	Bayesian comparison of neurovascular coupling models using EEG-fMRI. *PLoS Computational Biology*, **2011**, 7, e1002070	5	22
19	How does the mirror neuron system change during development?. *Developmental Science*, **2007**, 10, 524-6	4.5	21
18	Robust Bayesian General Linear Models. *NeuroImage*, **2007**, 36, 661-71	7.9	20
17	Do monkey F5 mirror neurons show changes in firing rate during repeated observation of natural actions?. *Journal of Neurophysiology*, **2014**, 111, 1214-26	3.2	19
16	Changing meaning causes coupling changes within higher levels of the cortical hierarchy. *Proceedings of the National Academy of Sciences of the United States of America*, **2009**, 106, 11765-70	11.5	19
15	Dopaminergic treatment modulates sensory attenuation at the onset of the movement in Parkinson's disease: A test of a new framework for bradykinesia. *Movement Disorders*, **2016**, 31, 143-6	7	19
14	Sensorimotor beta power reflects the precision-weighting afforded to sensory prediction errors. *NeuroImage*, **2019**, 200, 59-71	7.9	17
13	Functional connectivity during real vs imagined visuomotor tasks: an EEG study. *NeuroReport*, **2004**, 15, 637-42	1.7	17
12	Observing, performing, and understanding actions: revisiting the role of cortical motor areas in processing of action words. *Journal of Cognitive Neuroscience*, **2014**, 26, 1644-53	3.1	14
11	Grasp-specific motor resonance is influenced by the visibility of the observed actor. *Cortex*, **2016**, 84, 43-54	3.8	12
10	Linking differences in action perception with differences in action execution. *Social Cognitive and Affective Neuroscience*, **2015**, 10, 1121-7	4	8
9	High-frequency peripheral vibration decreases completion time on a number of motor tasks. *European Journal of Neuroscience*, **2018**, 48, 1789-1802	3.5	6
8	Emotional facedness in Parkinson's disease. *Journal of Neural Transmission*, **2018**, 125, 1819-1827	4.3	5

7	The time course of eye movements during action observation reflects sequence learning. *NeuroReport*, **2013**, 24, 822-6	1.7	4
6	Neural correlates of sequence learning with stochastic feedback. *Journal of Cognitive Neuroscience*, **2011**, 23, 1346-57	3.1	3
5	Dopaminergic Modulation of Sensory Attenuation in Parkinson's Disease: Is There an Underlying Modulation of Beta Power?. *Frontiers in Neurology*, **2019**, 10, 1001	4.1	2
4	Humans can infer the heartbeats of others when looking at their face		2
3	Relationship between cardiac cycle and the timing of actions during action execution and observation. *Cognition*, **2021**, 217, 104907	3.5	2
2	Relating the "mirrorness" of mirror neurons to their origins. *Behavioral and Brain Sciences*, **2014**, 37, 207-8	8.9	1
1	Non-invasive intervention for motor signs of Parkinson's disease: the effect of vibratory stimuli. *Journal of Neurology, Neurosurgery and Psychiatry*, **2020**,	5.5	1