

# Joseph E O'doherty

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1521291/publications.pdf>

Version: 2024-02-01

18  
papers

3,433  
citations

567281

15  
h-index

888059

17  
g-index

19  
all docs

19  
docs citations

19  
times ranked

2516  
citing authors

#	ARTICLE	IF	CITATIONS
1	Learning to Control a Brain-Machine Interface for Reaching and Grasping by Primates. PLoS Biology, 2003, 1, e42.	5.6	1,427
2	Active tactile exploration using a brain-machine-brain interface. Nature, 2011, 479, 228-231.	27.8	605
3	Cortical Ensemble Adaptation to Represent Velocity of an Artificial Actuator Controlled by a Brain-Machine Interface. Journal of Neuroscience, 2005, 25, 4681-4693.	3.6	266
4	A learning-based approach to artificial sensory feedback leads to optimal integration. Nature Neuroscience, 2015, 18, 138-144.	14.8	181
5	Unscented Kalman Filter for Brain-Machine Interfaces. PLoS ONE, 2009, 4, e6243.	2.5	165
6	Decoding of Temporal Intervals From Cortical Ensemble Activity. Journal of Neurophysiology, 2008, 99, 166-186.	1.8	142
7	A brain-machine interface instructed by direct intracortical microstimulation. Frontiers in Integrative Neuroscience, 2009, 3, 20.	2.1	136
8	Adaptive Decoding for Brain-Machine Interfaces Through Bayesian Parameter Updates. Neural Computation, 2011, 23, 3162-3204.	2.2	107
9	Future developments in brain-machine interface research. Clinics, 2011, 66, 25-32.	1.5	96
10	Expanding the primate body schema in sensorimotor cortex by virtual touches of an avatar. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 15121-15126.	7.1	74
11	Virtual Active Touch Using Randomly Patterned Intracortical Microstimulation. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2012, 20, 85-93.	4.9	70
12	Cortical Modulations Increase in Early Sessions with Brain-Machine Interface. PLoS ONE, 2007, 2, e619.	2.5	54
13	Superior arm-movement decoding from cortex with a new, unsupervised-learning algorithm. Journal of Neural Engineering, 2018, 15, 026010.	3.5	42
14	Stochastic Facilitation of Artificial Tactile Sensation in Primates. Journal of Neuroscience, 2012, 32, 14271-14275.	3.6	27
15	Creating a neuroprosthesis for active tactile exploration of textures. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 21821-21827.	7.1	24
16	High-Side Digitally Current Controlled Biphasic Bipolar Microstimulator. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2012, 20, 331-340.	4.9	15
17	Digestive Disease Resources on The Internet. American Journal of Gastroenterology, 1999, 94, 2022-2032.	0.4	2
18	Enhanced neural modulations during BMI experiments: control perspective. BMC Neuroscience, 2009, 10, .	1.9	0