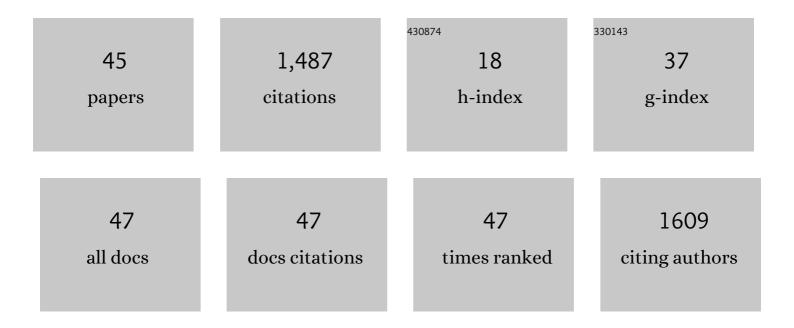
Jason J Kutch

List of Publications by Year in descending order

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INSON L KUTCH

#	Article	IF	CITATIONS
1	Challenges and New Approaches to Proving the Existence of Muscle Synergies of Neural Origin. PLoS Computational Biology, 2012, 8, e1002434.	3.2	220
2	Endpoint Force Fluctuations Reveal Flexible Rather Than Synergistic Patterns of Muscle Cooperation. Journal of Neurophysiology, 2008, 100, 2455-2471.	1.8	121
3	Brain signature and functional impact of centralized pain: a multidisciplinary approach to the study of chronic pelvic pain (MAPP) network study. Pain, 2017, 158, 1979-1991.	4.2	106
4	Computational Models for Neuromuscular Function. IEEE Reviews in Biomedical Engineering, 2009, 2, 110-135.	18.0	95
5	Alterations in Resting State Oscillations and Connectivity in Sensory and Motor Networks in Women with Interstitial Cystitis/Painful Bladder Syndrome. Journal of Urology, 2014, 192, 947-955.	0.4	93
6	Urologic chronic pelvic pain syndrome: insights from the MAPP Research Network. Nature Reviews Urology, 2019, 16, 187-200.	3.8	91
7	Muscle redundancy does not imply robustness to muscle dysfunction. Journal of Biomechanics, 2011, 44, 1264-1270.	2.1	84
8	Altered resting state neuromotor connectivity in men with chronic prostatitis/chronic pelvic pain syndrome: A MAPP. NeuroImage: Clinical, 2015, 8, 493-502.	2.7	66
9	Unique Microstructural Changes in the Brain Associated with Urological Chronic Pelvic Pain Syndrome (UCPPS) Revealed by Diffusion Tensor MRI, Super-Resolution Track Density Imaging, and Statistical Parameter Mapping: A MAPP Network Neuroimaging Study. PLoS ONE, 2015, 10, e0140250.	2.5	64
10	Cortical Activation Associated with Muscle Synergies of the Human Male Pelvic Floor. Journal of Neuroscience, 2014, 34, 13811-13818.	3.6	52
11	Brain Connectivity Associated with Muscle Synergies in Humans. Journal of Neuroscience, 2015, 35, 14708-14716.	3.6	51
12	Resting-state functional connectivity predicts longitudinal pain symptom change in urologic chronic pelvic pain syndrome: a MAPP network study. Pain, 2017, 158, 1069-1082.	4.2	46
13	Beta Band Corticomuscular Drive Reflects Muscle Coordination Strategies. Frontiers in Computational Neuroscience, 2017, 11, 17.	2.1	46
14	Brain white matter changes associated with urological chronic pelvic pain syndrome: multisite neuroimaging from a MAPP case–control study. Pain, 2016, 157, 2782-2791.	4.2	43
15	Distributed representation of pelvic floor muscles in human motor cortex. Scientific Reports, 2018, 8, 7213.	3.3	30
16	Decrease in Muscle Contraction Time Complements Neural Maturation in the Development of Dynamic Manipulation. Journal of Neuroscience, 2013, 33, 15050-15055.	3.6	24
17	When 90% of the variance is not enough: residual EMG from muscle synergy extraction influences task performance. Journal of Neurophysiology, 2020, 123, 2180-2190.	1.8	22
18	A Novel Synthesis of Computational Approaches Enables Optimization of Grasp Quality of Tendon-Driven Hands. IEEE Transactions on Robotics, 2012, 28, 958-966.	10.3	20

JASON J KUTCH

#	Article	IF	CITATIONS
19	Extraction of Individual Muscle Mechanical Action From Endpoint Force. Journal of Neurophysiology, 2010, 103, 3535-3546.	1.8	18
20	Salience network functional connectivity is spatially heterogeneous across sensorimotor cortex in healthy humans. NeuroImage, 2020, 221, 117177.	4.2	17
21	The Multidisciplinary Approach to The Study of Chronic Pelvic Pain (MAPP) Research Network*: Design and implementation of the Symptom Patterns Study (SPS). Neurourology and Urodynamics, 2020, 39, 1803-1814.	1.5	17
22	Impact of early adverse life events and sex on functional brain networks in patients with urological chronic pelvic pain syndrome (UCPPS): A MAPP Research Network study. PLoS ONE, 2019, 14, e0217610.	2.5	15
23	Human elbow joint torque is linearly encoded in electromyographic signals from multiple muscles. Neuroscience Letters, 2001, 311, 97-100.	2.1	14
24	Altered brain connectivity in dysmenorrhea. Pain, 2016, 157, 5-6.	4.2	14
25	Motor cortical neuromodulation of pelvic floor muscle tone: Potential implications for the treatment of urologic conditions. Neurourology and Urodynamics, 2019, 38, 1517-1523.	1.5	14
26	Analysis of the effects of firing rate and synchronization on spike-triggered averaging of multidirectional motor unit torque. Journal of Computational Neuroscience, 2007, 22, 347-361.	1.0	13
27	Natural bladder filling alters resting brain function at multiple spatial scales: a proof-of-concept MAPP Network Neuroimaging Study. Scientific Reports, 2020, 10, 19901.	3.3	11
28	The probability of choosing both hands depends on an interaction between motor capacity and limb-specific control in chronic stroke. Experimental Brain Research, 2020, 238, 2569-2579.	1.5	10
29	The motor cortical representation of a muscle is not homogeneous in brain connectivity. Experimental Brain Research, 2017, 235, 2767-2776.	1.5	9
30	Analytic consistency and neural correlates of peak alpha frequency in the study of pain. Journal of Neuroscience Methods, 2022, 368, 109460.	2.5	9
31	Changes in brain white matter structure are associated with urine proteins in urologic chronic pelvic pain syndrome (UCPPS): A MAPP Network study. PLoS ONE, 2018, 13, e0206807.	2.5	8
32	Transperineal Sonography Evaluation of Muscles and Vascularity in the Male Pelvic Floor. Journal of Diagnostic Medical Sonography, 2013, 29, 3-10.	0.3	7
33	Individuals with recurrent low back pain exhibit further altered frontal plane trunk control in remission than when in pain. Clinical Biomechanics, 2021, 87, 105391.	1.2	7
34	12 weeks of strength training improves fluid cognition in older adults: A nonrandomized pilot trial. PLoS ONE, 2021, 16, e0255018.	2.5	6
35	Sensitivity of functional connectivity to periaqueductal gray localization, with implications for identifying disease-related changes in chronic visceral pain: A MAPP Research Network neuroimaging study. NeuroImage: Clinical, 2020, 28, 102443.	2.7	5
36	Cortical activity predicts good variation in human motor output. Experimental Brain Research, 2017, 235, 1139-1147.	1.5	3

JASON J KUTCH

#	Article	IF	CITATIONS
37	Corticomotor excitability of gluteus maximus and hip extensor strength: The influence of sex. Human Movement Science, 2021, 78, 102830.	1.4	3
38	Impaired Ability to Relax Pelvic Floor Muscles in Men With Chronic Prostatitis/Chronic Pelvic Pain Syndrome. Physical Therapy, 2022, 102, .	2.4	3
39	Paired associative stimulation applied to the cortex can increase resting-state functional connectivity: A proof of principle study. Neuroscience Letters, 2022, 784, 136753.	2.1	3
40	Reliability of Superficial Male Pelvic Floor Structural Measurements Using Linear-Array Transperineal Sonography. Ultrasound in Medicine and Biology, 2015, 41, 610-617.	1.5	2
41	Evidence for increased neuromuscular drive following spinal manipulation in individuals with subacromial pain syndrome. Clinical Biomechanics, 2021, 90, 105485.	1.2	2
42	Cerebral Perfusion and Sensory Testing Results Differ in Interstitial Cystitis/Bladder Pain Syndrome Patients with and without Fibromyalgia: A Site-Specific MAPP Network Study. Journal of Pain Research, 2021, Volume 14, 3887-3895.	2.0	2
43	Analysis of the effects of firing rate and synchronization on spike-triggered averaging of neuronal output. , 2006, , .		0
44	Computational Hypothesis testing for neuromuscular systems. , 2010, 2010, 5436-9.		0
45	Complete Solution Sets for Neuromuscular Models Reveal How Mechanical Constraints Limit Neural Control Options. , 2010, , .		0