J Andrew Pruszynski

List of Publications by Year in Descending Order

62 papers	1,926 citations	21 h-index	43 g-index
95 ext. papers	2,498 ext. citations	6.4 avg, IF	5.33 L-index

#	Paper	IF	Citations
62	Motor planning brings human primary somatosensory cortex into action-specific preparatory states.. *ELife*, **2022**, 11,	8.9	2
61	The Planning Horizon for Movement Sequences. *ENeuro*, **2021**, 8,	3.9	1
60	Human Touch Receptors Are Sensitive to Spatial Details on the Scale of Single Fingerprint Ridges. *Journal of Neuroscience*, **2021**, 41, 3622-3634	6.6	6
59	Spinal stretch reflexes support efficient control of reaching. *Journal of Neurophysiology*, **2021**, 125, 1339-1347	3.2	3
58	Skin and muscle receptors shape coordinated fast feedback responses in the upper limb. *Current Opinion in Physiology*, **2021**, 20, 198-205	2.6	2
57	Sharing voxelwise neuroimaging results from rhesus monkeys and other species with Neurovault. *NeuroImage*, **2021**, 225, 117518	7.9	3
56	Shared internal models for feedforward and feedback control of arm dynamics in non-human primates. *European Journal of Neuroscience*, **2021**, 53, 1605-1620	3.5	0
55	Voluntary modification of rapid tactile-motor responses during reaching differs from its visuomotor counterpart. *Journal of Neurophysiology*, **2020**, 124, 284-294	3.2	2
54	Sensory information from a slipping object elicits a rapid and automatic shoulder response. *Journal of Neurophysiology*, **2020**, 123, 1103-1112	3.2	2
53	Generalizing movement patterns following shoulder fixation. *Journal of Neurophysiology*, **2020**, 123, 1193-1205	3.2	4
52	Learning New Feedforward Motor Commands Based on Feedback Responses. *Current Biology*, **2020** , 30, 1941-1948.e3	6.3	11
51	Orientation processing by synaptic integration across first-order tactile neurons. *PLoS Computational Biology*, **2020**, 16, e1008303	5	3
50	Structure of Population Activity in Primary Motor Cortex for Single Finger Flexion and Extension. *Journal of Neuroscience*, **2020**, 40, 9210-9223	6.6	5
49	Whole brain mapping of somatosensory responses in awake marmosets investigated with ultra-high-field fMRI. *Journal of Neurophysiology*, **2020**, 124, 1900-1913	3.2	6
48	Stretch reflexes. *Current Biology*, **2020**, 30, R1025-R1030	6.3	9
47	Maintaining arm control during self-triggered and unpredictable unloading perturbations. *European Journal of Neuroscience*, **2019**, 50, 3531-3543	3.5	2
46	Spinal stretch reflexes support efficient hand control. *Nature Neuroscience*, **2019**, 22, 529-533	25.5	44

45	The language of the brain: real-world neural population codes. *Current Opinion in Neurobiology*, **2019**, 58, 30-36	7.6	8
44	Stability of representational geometry across a wide range of fMRI activity levels. *NeuroImage*, **2019**, 186, 155-163	7.9	11
43	A rapid visuomotor response on the human upper limb is selectively influenced by implicit motor learning. *Journal of Neurophysiology*, **2019**, 121, 85-95	3.2	9
42	Done in 100 ms: path-dependent visuomotor transformation in the human upper limb. *Journal of Neurophysiology*, **2018**, 119, 1319-1328	3.2	12
41	Neural network models of the tactile system develop first-order units with spatially complex receptive fields. *PLoS ONE*, **2018**, 13, e0199196	3.7	5
40	Fast and accurate edge orientation processing during object manipulation. *ELife*, **2018**, 7,	8.9	33
39	Rapid feedback responses are flexibly coordinated across arm muscles to support goal-directed reaching. *Journal of Neurophysiology*, **2018**, 119, 537-547	3.2	6
38	Feedforward and Feedback Control Share an Internal Model of the Arms Dynamics. *Journal of Neuroscience*, **2018**, 38, 10505-10514	6.6	40
37	Edge orientation perception during active touch. *Journal of Neurophysiology*, **2018**, 120, 2423-2429	3.2	10
36	Concentric radiofrequency arrays to increase the statistical power of resting-state maps in monkeys. *NeuroImage*, **2018**, 178, 287-294	7.9	8
35	Compensating for intersegmental dynamics across the shoulder, elbow, and wrist joints during feedforward and feedback control. *Journal of Neurophysiology*, **2017**, 118, 1984-1997	3.2	16
34	Coordinating long-latency stretch responses across the shoulder, elbow, and wrist during goal-directed reaching. *Journal of Neurophysiology*, **2016**, 116, 2236-2249	3.2	18
33	A Rapid Tactile-Motor Reflex Automatically Guides Reaching toward Handheld Objects. *Current Biology*, **2016**, 26, 788-92	6.3	37
32	Distributed task-specific processing of somatosensory feedback for voluntary motor control. *ELife*, **2016**, 5,	8.9	62
31	Primary motor cortex neurons classified in a postural task predict muscle activation patterns in a reaching task. *Journal of Neurophysiology*, **2016**, 115, 2021-32	3.2	12
30	Neuroscience. Reading the mind to move the body. *Science*, **2015**, 348, 860-1	33.3	5
29	Goal-dependent modulation of the long-latency stretch response at the shoulder, elbow, and wrist. *Journal of Neurophysiology*, **2015**, 114, 3242-54	3.2	28
28	Biting intentions modulate digastric reflex responses to sudden unloading of the jaw. *Journal of Neurophysiology*, **2014**, 112, 1067-73	3.2	4

27	Edge-orientation processing in first-order tactile neurons. *Nature Neuroscience*, **2014**, 17, 1404-9	25.5	126
26	Goal-dependent modulation of fast feedback responses in primary motor cortex. *Journal of Neuroscience*, **2014**, 34, 4608-17	6.6	65
25	Perturbation-evoked responses in primary motor cortex are modulated by behavioral context. *Journal of Neurophysiology*, **2014**, 112, 2985-3000	3.2	42
24	Primary motor cortex and fast feedback responses to mechanical perturbations: a primer on what we know now and some suggestions on what we should find out next. *Frontiers in Integrative Neuroscience*, **2014**, 8, 72	3.2	15
23	BOLD responses to tactile stimuli in visual and auditory cortex depend on the frequency content of stimulation. *Journal of Cognitive Neuroscience*, **2012**, 24, 2120-34	3.1	23
22	Optimal feedback control and the long-latency stretch response. *Experimental Brain Research*, **2012** , 218, 341-59	2.3	172
21	Primary motor cortex underlies multi-joint integration for fast feedback control. *Nature*, **2011**, 478, 387-90	30.4	222
20	Rapid motor responses quickly integrate visuospatial task constraints. *Experimental Brain Research*, **2011**, 211, 231-42	2.3	34
19	The long-latency reflex is composed of at least two functionally independent processes. *Journal of Neurophysiology*, **2011**, 106, 449-59	3.2	90
18	Stimulus-locked responses on human arm muscles reveal a rapid neural pathway linking visual input to arm motor output. *European Journal of Neuroscience*, **2010**, 32, 1049-57	3.5	54
17	Long-latency and voluntary responses to an arm displacement can be rapidly attenuated by perturbation offset. *Journal of Neurophysiology*, **2010**, 103, 3195-204	3.2	27
16	Complex spatiotemporal tuning in human upper-limb muscles. *Journal of Neurophysiology*, **2010**, 103, 564-72	3.2	6
15	Long-latency responses during reaching account for the mechanical interaction between the shoulder and elbow joints. *Journal of Neurophysiology*, **2009**, 102, 3004-15	3.2	59
14	Temporal evolution of "automatic gain-scaling". *Journal of Neurophysiology*, **2009**, 102, 992-1003	3.2	91
13	Long-latency reflexes of the human arm reflect an internal model of limb dynamics. *Current Biology*, **2008**, 18, 449-53	6.3	193
12	Rapid motor responses are appropriately tuned to the metrics of a visuospatial task. *Journal of Neurophysiology*, **2008**, 100, 224-38	3.2	173
11	Temporal encoding of movement in motor cortical neurons. *Journal of Neuroscience*, **2007**, 27, 10076-7	6.6	1
10	Primate upper limb muscles exhibit activity patterns that differ from their anatomical action during a postural task. *Journal of Neurophysiology*, **2006**, 95, 493-504	3.2	70

List of Publications

9	Spinal stretch reflexes support efficient control of reaching	1
8	Generalizing movement patterns following shoulder fixation	1
7	Fast and accurate edge orientation processing during object manipulation	1
6	The planning horizon for movement sequences	1
5	Stability of representational geometry across a wide range of fMRI activity levels	2
4	Orientation processing by synaptic integration across first-order tactile neurons	4
3	Motor learning and transfer: from feedback to feedforward control	1
2	Rapid feedback responses are flexibly coordinated across arm muscles to support goal-directed reaching	1
1	Neural network models of the tactile system develop first-order units with spatially complex receptive fields	2