

Paul L Gribble

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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.

92
papers

3,916
citations

34
h-index

61
g-index

107
ext. papers

4,666
ext. citations

4.8
avg, IF

5.7
L-index

#	Paper	IF	Citations
92	Role of cocontraction in arm movement accuracy. <i>Journal of Neurophysiology</i> , 2003 , 89, 2396-405	3.2	424
91	Motor learning by observing. <i>Neuron</i> , 2005 , 46, 153-60	13.9	291
90	Are complex control signals required for human arm movement?. <i>Journal of Neurophysiology</i> , 1998 , 79, 1409-24	3.2	222
89	Compensation for interaction torques during single- and multijoint limb movement. <i>Journal of Neurophysiology</i> , 1999 , 82, 2310-26	3.2	212
88	Somatosensory plasticity and motor learning. <i>Journal of Neuroscience</i> , 2010 , 30, 5384-93	6.6	194
87	Dissociation between hand motion and population vectors from neural activity in motor cortex. <i>Nature</i> , 2001 , 413, 161-5	50.4	134
86	Sensory Plasticity in Human Motor Learning. <i>Trends in Neurosciences</i> , 2016 , 39, 114-123	13.3	110
85	Overlap of internal models in motor cortex for mechanical loads during reaching. <i>Nature</i> , 2002 , 417, 938-41	50.4	109
84	Can proprioceptive training improve motor learning?. <i>Journal of Neurophysiology</i> , 2012 , 108, 3313-21	3.2	85
83	Compensation for loads during arm movements using equilibrium-point control. <i>Experimental Brain Research</i> , 2000 , 135, 474-82	2.3	82
82	Mapping proprioception across a 2D horizontal workspace. <i>PLoS ONE</i> , 2010 , 5, e11851	3.7	77
81	Independent coactivation of shoulder and elbow muscles. <i>Experimental Brain Research</i> , 1998 , 123, 355-60	2.3	73
80	Learning to control arm stiffness under static conditions. <i>Journal of Neurophysiology</i> , 2004 , 92, 3344-50	3.2	73
79	Kinematics and kinetics of multijoint reaching in nonhuman primates. <i>Journal of Neurophysiology</i> , 2003 , 89, 2667-77	3.2	71
78	Hand-eye coordination for rapid pointing movements. Arm movement direction and distance are specified prior to saccade onset. <i>Experimental Brain Research</i> , 2002 , 145, 372-82	2.3	71
77	Are there distinct neural representations of object and limb dynamics?. <i>Experimental Brain Research</i> , 2006 , 173, 689-97	2.3	70
76	The central nervous system does not minimize energy cost in arm movements. <i>Journal of Neurophysiology</i> , 2010 , 104, 2985-94	3.2	64

75	Relationship between cocontraction, movement kinematics and phasic muscle activity in single-joint arm movement. <i>Experimental Brain Research</i> , 2001 , 140, 171-81	2.3	63
74	Recent tests of the equilibrium-point hypothesis (lambda model). <i>Motor Control</i> , 1998 , 2, 189-205	1.3	63
73	Generalization of motor learning based on multiple field exposures and local adaptation. <i>Journal of Neurophysiology</i> , 2005 , 93, 3327-38	3.2	60
72	Control of position and movement is simplified by combined muscle spindle and Golgi tendon organ feedback. <i>Journal of Neurophysiology</i> , 2013 , 109, 1126-39	3.2	59
71	Spatially selective enhancement of proprioceptive acuity following motor learning. <i>Journal of Neurophysiology</i> , 2011 , 105, 2512-21	3.2	59
70	An examination of the degrees of freedom of human jaw motion in speech and mastication. <i>Journal of Speech, Language, and Hearing Research</i> , 1997 , 40, 1341-51	2.8	58
69	Repetitive transcranial magnetic stimulation to the primary motor cortex interferes with motor learning by observing. <i>Journal of Cognitive Neuroscience</i> , 2009 , 21, 1013-22	3.1	57
68	Proactive interference as a result of persisting neural representations of previously learned motor skills in primary motor cortex. <i>Journal of Cognitive Neuroscience</i> , 2006 , 18, 2167-76	3.1	45
67	Spinal stretch reflexes support efficient hand control. <i>Nature Neuroscience</i> , 2019 , 22, 529-533	25.5	44
66	fMRI activation during observation of others' reach errors. <i>Journal of Cognitive Neuroscience</i> , 2010 , 22, 1493-503	3.1	44
65	Visual cues signaling object grasp reduce interference in motor learning. <i>Journal of Neurophysiology</i> , 2009 , 102, 2112-20	3.2	44
64	The cost of moving optimally: kinematic path selection. <i>Journal of Neurophysiology</i> , 2014 , 112, 1815-24	3.2	41
63	Limb stiffness is modulated with spatial accuracy requirements during movement in the absence of destabilizing forces. <i>Journal of Neurophysiology</i> , 2009 , 101, 1542-9	3.2	40
62	Feedforward and Feedback Control Share an Internal Model of the Arm's Dynamics. <i>Journal of Neuroscience</i> , 2018 , 38, 10505-10514	6.6	40
61	Dissociating error-based and reinforcement-based loss functions during sensorimotor learning. <i>PLoS Computational Biology</i> , 2017 , 13, e1005623	5	39
60	Phasic and tonic stretch reflexes in muscles with few muscle spindles: human jaw-opener muscles. <i>Experimental Brain Research</i> , 1997 , 116, 299-308	2.3	36
59	Motor force field learning influences visual processing of target motion. <i>Journal of Neuroscience</i> , 2007 , 27, 9975-83	6.6	34
58	Persistence of inter-joint coupling during single-joint elbow flexions after shoulder fixation. <i>Experimental Brain Research</i> , 2005 , 163, 252-7	2.3	33

57	Both fast and slow learning processes contribute to savings following sensorimotor adaptation. <i>Journal of Neurophysiology</i> , 2019 , 121, 1575-1583	3.2	29
56	Observing object lifting errors modulates cortico-spinal excitability and improves object lifting performance. <i>Cortex</i> , 2014 , 50, 115-24	3.8	29
55	Kinematics of wrist joint flexion in overarm throws made by skilled subjects. <i>Experimental Brain Research</i> , 2004 , 154, 382-94	2.3	29
54	Goal-dependent modulation of the long-latency stretch response at the shoulder, elbow, and wrist. <i>Journal of Neurophysiology</i> , 2015 , 114, 3242-54	3.2	28
53	Inter-joint coupling strategy during adaptation to novel viscous loads in human arm movement. <i>Journal of Neurophysiology</i> , 2004 , 92, 754-65	3.2	27
52	Functional Plasticity in Somatosensory Cortex Supports Motor Learning by Observing. <i>Current Biology</i> , 2016 , 26, 921-7	6.3	25
51	Transient visual responses reset the phase of low-frequency oscillations in the skeletomotor periphery. <i>European Journal of Neuroscience</i> , 2015 , 42, 1919-32	3.5	25
50	Effects of gravitational load on jaw movements in speech. <i>Journal of Neuroscience</i> , 1999 , 19, 9073-80	6.6	24
49	Neural signatures of reward and sensory error feedback processing in motor learning. <i>Journal of Neurophysiology</i> , 2019 , 121, 1561-1574	3.2	23
48	Changes in visual and sensory-motor resting-state functional connectivity support motor learning by observing. <i>Journal of Neurophysiology</i> , 2015 , 114, 677-88	3.2	23
47	The influence of visual perturbations on the neural control of limb stiffness. <i>Journal of Neurophysiology</i> , 2009 , 101, 246-57	3.2	23
46	A Trial-by-Trial Window into Sensorimotor Transformations in the Human Motor Periphery. <i>Journal of Neuroscience</i> , 2016 , 36, 8273-82	6.6	23
45	Functional connectivity between somatosensory and motor brain areas predicts individual differences in motor learning by observing. <i>Journal of Neurophysiology</i> , 2017 , 118, 1235-1243	3.2	22
44	Bimanual proprioception: are two hands better than one?. <i>Journal of Neurophysiology</i> , 2014 , 111, 1362-83	3.2	21
43	Observed effector-independent motor learning by observing. <i>Journal of Neurophysiology</i> , 2012 , 107, 1564-70	3.2	21
42	Effect of trial order and error magnitude on motor learning by observing. <i>Journal of Neurophysiology</i> , 2010 , 104, 1409-16	3.2	19
41	Coordinating long-latency stretch responses across the shoulder, elbow, and wrist during goal-directed reaching. <i>Journal of Neurophysiology</i> , 2016 , 116, 2236-2249	3.2	18
40	The gradient of the reinforcement landscape influences sensorimotor learning. <i>PLoS Computational Biology</i> , 2019 , 15, e1006839	5	16

39	Distributed category-specific recognition-memory signals in human perirhinal cortex. <i>Hippocampus</i> , 2016 , 26, 423-36	3.5	16
38	Compensating for intersegmental dynamics across the shoulder, elbow, and wrist joints during feedforward and feedback control. <i>Journal of Neurophysiology</i> , 2017 , 118, 1984-1997	3.2	16
37	Wrist muscle activation, interaction torque and mechanical properties in unskilled throws of different speeds. <i>Experimental Brain Research</i> , 2011 , 208, 115-25	2.3	16
36	Distinct haptic cues do not reduce interference when learning to reach in multiple force fields. <i>PLoS ONE</i> , 2008 , 3, e1990	3.7	15
35	Shape distortion produced by isolated mismatch between vision and proprioception. <i>Journal of Neurophysiology</i> , 2008 , 99, 231-43	3.2	13
34	Method for assessing directional characteristics of non-uniformly sampled neural activity. <i>Journal of Neuroscience Methods</i> , 2002 , 113, 187-97	3	13
33	Compensation for the effects of head acceleration on jaw movement in speech. <i>Journal of Neuroscience</i> , 2001 , 21, 6447-56	6.6	13
32	Movements following force-field adaptation are aligned with altered sense of limb position. <i>Experimental Brain Research</i> , 2019 , 237, 1303-1313	2.3	12
31	Done in 100 ms: path-dependent visuomotor transformation in the human upper limb. <i>Journal of Neurophysiology</i> , 2018 , 119, 1319-1328	3.2	12
30	Somatosensory cortical excitability changes precede those in motor cortex during human motor learning. <i>Journal of Neurophysiology</i> , 2019 , 122, 1397-1405	3.2	12
29	Deliberate utilization of interaction torques brakes elbow extension in a fast throwing motion. <i>Experimental Brain Research</i> , 2011 , 211, 63-72	2.3	12
28	A novel shoulder-elbow mechanism for increasing speed in a multijoint arm movement. <i>Experimental Brain Research</i> , 2010 , 203, 601-13	2.3	12
27	Learning New Feedforward Motor Commands Based on Feedback Responses. <i>Current Biology</i> , 2020 , 30, 1941-1948.e3	6.3	11
26	Neck muscle responses evoked by transcranial magnetic stimulation of the human frontal eye fields. <i>European Journal of Neuroscience</i> , 2011 , 33, 2155-67	3.5	10
25	Somatosensory perceptual training enhances motor learning by observing. <i>Journal of Neurophysiology</i> , 2018 , 120, 3017-3025	3.2	10
24	Does the sensorimotor system minimize prediction error or select the most likely prediction during object lifting?. <i>Journal of Neurophysiology</i> , 2017 , 117, 260-274	3.2	9
23	The human motor system alters its reaching movement plan for task-irrelevant, positional forces. <i>Journal of Neurophysiology</i> , 2015 , 113, 2137-49	3.2	9
22	A rapid visuomotor response on the human upper limb is selectively influenced by implicit motor learning. <i>Journal of Neurophysiology</i> , 2019 , 121, 85-95	3.2	9

21	Time course of changes in the long-latency feedback response parallels the fast process of short-term motor adaptation. <i>Journal of Neurophysiology</i> , 2020 , 124, 388-399	3.2	7
20	Rapid feedback responses are flexibly coordinated across arm muscles to support goal-directed reaching. <i>Journal of Neurophysiology</i> , 2018 , 119, 537-547	3.2	6
19	The effect of instruction on motor skill learning. <i>Journal of Neurophysiology</i> , 2020 , 124, 1449-1457	3.2	5
18	Generalizing movement patterns following shoulder fixation. <i>Journal of Neurophysiology</i> , 2020 , 123, 1193-1205	3.2	4
17	Optimizing the Distribution of Leg Muscles for Vertical Jumping. <i>PLoS ONE</i> , 2016 , 11, e0150019	3.7	4
16	Changes in corticospinal excitability associated with motor learning by observing. <i>Experimental Brain Research</i> , 2018 , 236, 2829-2838	2.3	3
15	Spinal stretch reflexes support efficient control of reaching. <i>Journal of Neurophysiology</i> , 2021 , 125, 1339-1347	3.1	3
14	Null effects of levodopa on reward- and error-based motor adaptation, savings, and anterograde interference. <i>Journal of Neurophysiology</i> , 2021 , 126, 47-67	3.2	3
13	Time course of changes in the long latency feedback response parallels the fast process of short term motor adaptation		2
12	Neural Signatures of Reward and Sensory Prediction Error in Motor Learning		2
11	Skin and muscle receptors shape coordinated fast feedback responses in the upper limb. <i>Current Opinion in Physiology</i> , 2021 , 20, 198-205	2.6	2
10	Spinal stretch reflexes support efficient control of reaching		1
9	Null effects of levodopa on reward- and error-based motor adaptation, savings, and anterograde interference		1
8	Generalizing movement patterns following shoulder fixation		1
7	Motor learning and transfer: from feedback to feedforward control		1
6	Rapid feedback responses are flexibly coordinated across arm muscles to support goal-directed reaching		1
5	EEG correlates of physical effort and reward processing during reinforcement learning. <i>Journal of Neurophysiology</i> , 2020 , 124, 610-622	3.2	1
4	Observational Motor Learning		1

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|---|--|-----|---|
| 3 | Sensorimotor feedback loops are selectively sensitive to reward | | 1 |
| 2 | Sensitivity to error during visuomotor adaptation is similarly modulated by abrupt, gradual, and random perturbation schedules. <i>Journal of Neurophysiology</i> , 2021 , 126, 934-945 | 3.2 | 1 |
| 1 | Command invariants and the frame of reference for human movement. <i>Behavioral and Brain Sciences</i> , 1995 , 18, 770-772 | 0.9 | |