Paul L Gribble

List of Publications by Year
in descending order

86 papers	5,125 citations	109137 35 h-index	102304 66 g-index
107 all docs	107 docs citations	107 times ranked	3218 citing authors

#	Article	IF	Citations
1	The role of feedback in the production of skilled finger sequences. Journal of Neurophysiology, 2022, 127, 829-839.	0.9	1
2	Differential Dopamine Receptor-Dependent Sensitivity Improves the Switch Between Hard and Soft Selection in a Model of the Basal Ganglia. Neural Computation, 2022, 34, 1588-1615.	1.3	2
3	Spinal stretch reflexes support efficient control of reaching. Journal of Neurophysiology, 2021, 125, 1339-1347.	0.9	14
4	Skin and muscle receptors shape coordinated fast feedback responses in the upper limb. Current Opinion in Physiology, 2021, 20, 198-205.	0.9	8
5	Null effects of levodopa on reward- and error-based motor adaptation, savings, and anterograde interference. Journal of Neurophysiology, 2021, 126, 47-67.	0.9	9
6	Sensitivity to error during visuomotor adaptation is similarly modulated by abrupt, gradual, and random perturbation schedules. Journal of Neurophysiology, 2021, 126, 934-945.	0.9	12
7	The effect of instruction on motor skill learning. Journal of Neurophysiology, 2020, 124, 1449-1457.	0.9	18
8	Time course of changes in the long-latency feedback response parallels the fast process of short-term motor adaptation. Journal of Neurophysiology, 2020, 124, 388-399.	0.9	19
9	EEG correlates of physical effort and reward processing during reinforcement learning. Journal of Neurophysiology, 2020, 124, 610-622.	0.9	6
10	Generalizing movement patterns following shoulder fixation. Journal of Neurophysiology, 2020, 123, 1193-1205.	0.9	8
11	Learning New Feedforward Motor Commands Based on Feedback Responses. Current Biology, 2020, 30, 1941-1948.e3.	1.8	28
12	Somatosensory cortical excitability changes precede those in motor cortex during human motor learning. Journal of Neurophysiology, 2019, 122, 1397-1405.	0.9	32
13	Both fast and slow learning processes contribute to savings following sensorimotor adaptation. Journal of Neurophysiology, 2019, 121, 1575-1583.	0.9	48
14	The gradient of the reinforcement landscape influences sensorimotor learning. PLoS Computational Biology, 2019, 15, e1006839.	1.5	34
15	Neural signatures of reward and sensory error feedback processing in motor learning. Journal of Neurophysiology, 2019, 121, 1561-1574.	0.9	40
16	Movements following force-field adaptation are aligned with altered sense of limb position. Experimental Brain Research, 2019, 237, 1303-1313.	0.7	14
17	Spinal stretch reflexes support efficient hand control. Nature Neuroscience, 2019, 22, 529-533.	7.1	88
18	A rapid visuomotor response on the human upper limb is selectively influenced by implicit motor learning. Journal of Neurophysiology, 2019, 121, 85-95.	0.9	22

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19	Rapid feedback responses are flexibly coordinated across arm muscles to support goal-directed reaching. Journal of Neurophysiology, 2018, 119, 537-547.	0.9	10
20	Feedforward and Feedback Control Share an Internal Model of the Arm's Dynamics. Journal of Neuroscience, 2018, 38, 10505-10514.	1.7	59
21	Somatosensory perceptual training enhances motor learning by observing. Journal of Neurophysiology, 2018, 120, 3017-3025.	0.9	18
22	Changes in corticospinal excitability associated with motor learning by observing. Experimental Brain Research, 2018, 236, 2829-2838.	0.7	5
23	Done in 100 ms: path-dependent visuomotor transformation in the human upper limb. Journal of Neurophysiology, 2018, 119, 1319-1328.	0.9	28
24	Does the sensorimotor system minimize prediction error or select the most likely prediction during object lifting?. Journal of Neurophysiology, 2017, 117, 260-274.	0.9	19
25	Functional connectivity between somatosensory and motor brain areas predicts individual differences in motor learning by observing. Journal of Neurophysiology, 2017, 118, 1235-1243.	0.9	36
26	Compensating for intersegmental dynamics across the shoulder, elbow, and wrist joints during feedforward and feedback control. Journal of Neurophysiology, 2017, 118, 1984-1997.	0.9	25
27	Dissociating error-based and reinforcement-based loss functions during sensorimotor learning. PLoS Computational Biology, 2017, 13, e1005623.	1.5	66
28	A Trial-by-Trial Window into Sensorimotor Transformations in the Human Motor Periphery. Journal of Neuroscience, 2016, 36, 8273-8282.	1.7	58
29	Coordinating long-latency stretch responses across the shoulder, elbow, and wrist during goal-directed reaching. Journal of Neurophysiology, 2016, 116, 2236-2249.	0.9	26
30	Distributed categoryâ€specific recognitionâ€memory signals in human perirhinal cortex. Hippocampus, 2016, 26, 423-436.	0.9	22
31	Sensory Plasticity in Human Motor Learning. Trends in Neurosciences, 2016, 39, 114-123.	4.2	160
32	Functional Plasticity in Somatosensory Cortex Supports Motor Learning by Observing. Current Biology, 2016, 26, 921-927.	1.8	35
33	Optimizing the Distribution of Leg Muscles for Vertical Jumping. PLoS ONE, 2016, 11, e0150019.	1.1	15
34	Transient visual responses reset the phase of lowâ€frequency oscillations in the skeletomotor periphery. European Journal of Neuroscience, 2015, 42, 1919-1932.	1.2	49
35	Goal-dependent modulation of the long-latency stretch response at the shoulder, elbow, and wrist. Journal of Neurophysiology, 2015, 114, 3242-3254.	0.9	36
36	The human motor system alters its reaching movement plan for task-irrelevant, positional forces. Journal of Neurophysiology, 2015, 113, 2137-2149.	0.9	13

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37	Changes in visual and sensory-motor resting-state functional connectivity support motor learning by observing. Journal of Neurophysiology, 2015, 114, 677-688.	0.9	33
38	Observing object lifting errors modulates cortico-spinal excitability and improves object lifting performance. Cortex, 2014, 50, 115-124.	1.1	46
39	The cost of moving optimally: kinematic path selection. Journal of Neurophysiology, 2014, 112, 1815-1824.	0.9	51
40	Bimanual proprioception: are two hands better than one?. Journal of Neurophysiology, 2014, 111, 1362-1368.	0.9	23
41	Control of position and movement is simplified by combined muscle spindle and Golgi tendon organ feedback. Journal of Neurophysiology, 2013, 109, 1126-1139.	0.9	86
42	Observed effector-independent motor learning by observing. Journal of Neurophysiology, 2012, 107, 1564-1570.	0.9	30
43	Can proprioceptive training improve motor learning?. Journal of Neurophysiology, 2012, 108, 3313-3321.	0.9	114
44	Neck muscle responses evoked by transcranial magnetic stimulation of the human frontal eye fields. European Journal of Neuroscience, 2011, 33, 2155-2167.	1.2	13
45	Wrist muscle activation, interaction torque and mechanical properties in unskilled throws of different speeds. Experimental Brain Research, 2011, 208, 115-125.	0.7	20
46	Deliberate utilization of interaction torques brakes elbow extension in a fast throwing motion. Experimental Brain Research, 2011, 211, 63-72.	0.7	12
47	Spatially selective enhancement of proprioceptive acuity following motor learning. Journal of Neurophysiology, 2011, 105, 2512-2521.	0.9	67
48	A novel shoulderâ€“elbow mechanism for increasing speed in a multijoint arm movement. Experimental Brain Research, 2010, 203, 601-613.	0.7	12
49	Somatosensory Plasticity and Motor Learning. Journal of Neuroscience, 2010, 30, 5384-5393.	1.7	245
50	The Central Nervous System Does Not Minimize Energy Cost in Arm Movements. Journal of Neurophysiology, 2010, 104, 2985-2994.	0.9	85
51	Effect of Trial Order and Error Magnitude on Motor Learning by Observing. Journal of Neurophysiology, 2010, 104, 1409-1416.	0.9	22
52	fMRI Activation during Observation of Others' Reach Errors. Journal of Cognitive Neuroscience, 2010, 22, 1493-1503.	1.1	55
53	Mapping Proprioception across a 2D Horizontal Workspace. PLoS ONE, 2010, 5, e11851.	1.1	93
54	The Influence of Visual Perturbations on the Neural Control of Limb Stiffness. Journal of Neurophysiology, 2009, 101, 246-257.	0.9	30

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55	Limb Stiffness Is Modulated With Spatial Accuracy Requirements During Movement in the Absence of Destabilizing Forces. Journal of Neurophysiology, 2009, 101, 1542-1549.	0.9	47
56	Repetitive Transcranial Magnetic Stimulation to the Primary Motor Cortex Interferes with Motor Learning by Observing. Journal of Cognitive Neuroscience, 2009, 21, 1013-1022.	1.1	66
57	Visual Cues Signaling Object Grasp Reduce Interference in Motor Learning. Journal of Neurophysiology, 2009, 102, 2112-2120.	0.9	57
58	Shape Distortion Produced by Isolated Mismatch Between Vision and Proprioception. Journal of Neurophysiology, 2008, 99, 231-243.	0.9	16
59	Distinct Haptic Cues Do Not Reduce Interference when Learning to Reach in Multiple Force Fields. PLoS ONE, 2008, 3, e1990.	1.1	20
60	Motor Force Field Learning Influences Visual Processing of Target Motion. Journal of Neuroscience, 2007, 27, 9975-9983.	1.7	40
61	Are there distinct neural representations of object and limb dynamics?. Experimental Brain Research, 2006, 173, 689-697.	0.7	86
62	Proactive Interference as a Result of Persisting Neural Representations of Previously Learned Motor Skills in Primary Motor Cortex. Journal of Cognitive Neuroscience, 2006, 18, 2167-2176.	1.1	55
63	Persistence of inter-joint coupling during single-joint elbow flexions after shoulder fixation. Experimental Brain Research, 2005, 163, 252-257.	0.7	44
64	Generalization of Motor Learning Based on Multiple Field Exposures and Local Adaptation. Journal of Neurophysiology, 2005, 93, 3327-3338.	0.9	65
65	Motor Learning by Observing. Neuron, 2005, 46, 153-160.	3.8	343
66	Learning to Control Arm Stiffness Under Static Conditions. Journal of Neurophysiology, 2004, 92, 3344-3350.	0.9	81
67	Kinematics of wrist joint flexion in overarm throws made by skilled subjects. Experimental Brain Research, 2004, 154, 382-394.	0.7	34
68	Inter-Joint Coupling Strategy During Adaptation to Novel Viscous Loads in Human Arm Movement. Journal of Neurophysiology, 2004, 92, 754-765.	0.9	28
69	Role of Cocontraction in Arm Movement Accuracy. Journal of Neurophysiology, 2003, 89, 2396-2405.	0.9	516
70	Kinematics and Kinetics of Multijoint Reaching in Nonhuman Primates. Journal of Neurophysiology, 2003, 89, 2667-2677.	0.9	80
71	Hand-eye coordination for rapid pointing movements. Experimental Brain Research, 2002, 145, 372-382.	0.7	84
72	Method for assessing directional characteristics of non-uniformly sampled neural activity. Journal of Neuroscience Methods, 2002, 113, 187-197.	1.3	15

#	ARTICLE	IF	CITATIONS
73	Overlap of internal models in motor cortex for mechanical loads during reaching. Nature, 2002, 417, 938-941.	13.7	126
74	Compensation for the Effects of Head Acceleration on Jaw Movement in Speech. Journal of Neuroscience, 2001, 21, 6447-6456.	1.7	16
75	Relationship between cocontraction, movement kinematics and phasic muscle activity in single-joint arm movement. Experimental Brain Research, 2001, 140, 171-181.	0.7	71
76	Dissociation between hand motion and population vectors from neural activity in motor cortex. Nature, 2001, 413, 161-165.	13.7	198
77	Compensation for loads during arm movements using equilibrium-point control. Experimental Brain Research, 2000, 135, 474-482.	0.7	100
78	Compensation for Interaction Torques During Single- and Multijoint Limb Movement. Journal of Neurophysiology, 1999, 82, 2310-2326.	0.9	243
79	Effects of Gravitational Load on Jaw Movements in Speech. Journal of Neuroscience, 1999, 19, 9073-9080.	1.7	31
80	Independent coactivation of shoulder and elbow muscles. Experimental Brain Research, 1998, 123, 355-360.	0.7	82
81	Recent Tests of the Equilibrium-Point Hypothesis (Î» Model). Motor Control, 1998, 2, 189-205.	0.3	75
82	Are Complex Control Signals Required for Human Arm Movement?. Journal of Neurophysiology, 1998, 79, 1409-1424.	0.9	252
83	An Examination of the Degrees of Freedom of Human Jaw Motion in Speech and Mastication. Journal of Speech, Language, and Hearing Research, 1997, 40, 1341-1351.	0.7	69
84	Phasic and tonic stretch reflexes in muscles with few muscle spindles: human jaw-opener muscles. Experimental Brain Research, 1997, 116, 299-308.	0.7	43
85	Command invariants and the frame of reference for human movement. Behavioral and Brain Sciences, 1995, 18, 770-772.	0.4	0
86	Observational Motor Learning. , 0, , 525-540.		1