

Paul L Gribble

List of Publications by Year in descending order

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86
papers

5,125
citations

109321

35
h-index

102487

66
g-index

107
all docs

107
docs citations

107
times ranked

3218
citing authors

#	ARTICLE	IF	CITATIONS
1	Role of Cocontraction in Arm Movement Accuracy. <i>Journal of Neurophysiology</i> , 2003, 89, 2396-2405.	1.8	516
2	Motor Learning by Observing. <i>Neuron</i> , 2005, 46, 153-160.	8.1	343
3	Are Complex Control Signals Required for Human Arm Movement?. <i>Journal of Neurophysiology</i> , 1998, 79, 1409-1424.	1.8	252
4	Somatosensory Plasticity and Motor Learning. <i>Journal of Neuroscience</i> , 2010, 30, 5384-5393.	3.6	245
5	Compensation for Interaction Torques During Single- and Multijoint Limb Movement. <i>Journal of Neurophysiology</i> , 1999, 82, 2310-2326.	1.8	243
6	Dissociation between hand motion and population vectors from neural activity in motor cortex. <i>Nature</i> , 2001, 413, 161-165.	27.8	198
7	Sensory Plasticity in Human Motor Learning. <i>Trends in Neurosciences</i> , 2016, 39, 114-123.	8.6	160
8	Overlap of internal models in motor cortex for mechanical loads during reaching. <i>Nature</i> , 2002, 417, 938-941.	27.8	126
9	Can proprioceptive training improve motor learning?. <i>Journal of Neurophysiology</i> , 2012, 108, 3313-3321.	1.8	114
10	Compensation for loads during arm movements using equilibrium-point control. <i>Experimental Brain Research</i> , 2000, 135, 474-482.	1.5	100
11	Mapping Proprioception across a 2D Horizontal Workspace. <i>PLoS ONE</i> , 2010, 5, e11851.	2.5	93
12	Spinal stretch reflexes support efficient hand control. <i>Nature Neuroscience</i> , 2019, 22, 529-533.	14.8	88
13	Are there distinct neural representations of object and limb dynamics?. <i>Experimental Brain Research</i> , 2006, 173, 689-697.	1.5	86
14	Control of position and movement is simplified by combined muscle spindle and Golgi tendon organ feedback. <i>Journal of Neurophysiology</i> , 2013, 109, 1126-1139.	1.8	86
15	The Central Nervous System Does Not Minimize Energy Cost in Arm Movements. <i>Journal of Neurophysiology</i> , 2010, 104, 2985-2994.	1.8	85
16	Hand-eye coordination for rapid pointing movements. <i>Experimental Brain Research</i> , 2002, 145, 372-382.	1.5	84
17	Independent coactivation of shoulder and elbow muscles. <i>Experimental Brain Research</i> , 1998, 123, 355-360.	1.5	82
18	Learning to Control Arm Stiffness Under Static Conditions. <i>Journal of Neurophysiology</i> , 2004, 92, 3344-3350.	1.8	81

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19	Kinematics and Kinetics of Multijoint Reaching in Nonhuman Primates. <i>Journal of Neurophysiology</i> , 2003, 89, 2667-2677.	1.8	80
20	Recent Tests of the Equilibrium-Point Hypothesis (\hat{b} Model). <i>Motor Control</i> , 1998, 2, 189-205.	0.6	75
21	Relationship between cocontraction, movement kinematics and phasic muscle activity in single-joint arm movement. <i>Experimental Brain Research</i> , 2001, 140, 171-181.	1.5	71
22	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, 1341-1351.	1.6	69
23	Spatially selective enhancement of proprioceptive acuity following motor learning. <i>Journal of Neurophysiology</i> , 2011, 105, 2512-2521.	1.8	67
24	Repetitive Transcranial Magnetic Stimulation to the Primary Motor Cortex Interferes with Motor Learning by Observing. <i>Journal of Cognitive Neuroscience</i> , 2009, 21, 1013-1022.	2.3	66
25	Dissociating error-based and reinforcement-based loss functions during sensorimotor learning. <i>PLoS Computational Biology</i> , 2017, 13, e1005623.	3.2	66
26	Generalization of Motor Learning Based on Multiple Field Exposures and Local Adaptation. <i>Journal of Neurophysiology</i> , 2005, 93, 3327-3338.	1.8	65
27	Feedforward and Feedback Control Share an Internal Model of the Arm's Dynamics. <i>Journal of Neuroscience</i> , 2018, 38, 10505-10514.	3.6	59
28	A Trial-by-Trial Window into Sensorimotor Transformations in the Human Motor Periphery. <i>Journal of Neuroscience</i> , 2016, 36, 8273-8282.	3.6	58
29	Visual Cues Signaling Object Grasp Reduce Interference in Motor Learning. <i>Journal of Neurophysiology</i> , 2009, 102, 2112-2120.	1.8	57
30	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, 2167-2176.	2.3	55
31	fMRI Activation during Observation of Others' Reach Errors. <i>Journal of Cognitive Neuroscience</i> , 2010, 22, 1493-1503.	2.3	55
32	The cost of moving optimally: kinematic path selection. <i>Journal of Neurophysiology</i> , 2014, 112, 1815-1824.	1.8	51
33	Transient visual responses reset the phase of low-frequency oscillations in the skeletomotor periphery. <i>European Journal of Neuroscience</i> , 2015, 42, 1919-1932.	2.6	49
34	Both fast and slow learning processes contribute to savings following sensorimotor adaptation. <i>Journal of Neurophysiology</i> , 2019, 121, 1575-1583.	1.8	48
35	Limb Stiffness Is Modulated With Spatial Accuracy Requirements During Movement in the Absence of Destabilizing Forces. <i>Journal of Neurophysiology</i> , 2009, 101, 1542-1549.	1.8	47
36	Observing object lifting errors modulates cortico-spinal excitability and improves object lifting performance. <i>Cortex</i> , 2014, 50, 115-124.	2.4	46

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37	Persistence of inter-joint coupling during single-joint elbow flexions after shoulder fixation. <i>Experimental Brain Research</i> , 2005, 163, 252-257.	1.5	44
38	Phasic and tonic stretch reflexes in muscles with few muscle spindles: human jaw-opener muscles. <i>Experimental Brain Research</i> , 1997, 116, 299-308.	1.5	43
39	Motor Force Field Learning Influences Visual Processing of Target Motion. <i>Journal of Neuroscience</i> , 2007, 27, 9975-9983.	3.6	40
40	Neural signatures of reward and sensory error feedback processing in motor learning. <i>Journal of Neurophysiology</i> , 2019, 121, 1561-1574.	1.8	40
41	Goal-dependent modulation of the long-latency stretch response at the shoulder, elbow, and wrist. <i>Journal of Neurophysiology</i> , 2015, 114, 3242-3254.	1.8	36
42	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.	1.8	36
43	Functional Plasticity in Somatosensory Cortex Supports Motor Learning by Observing. <i>Current Biology</i> , 2016, 26, 921-927.	3.9	35
44	Kinematics of wrist joint flexion in overarm throws made by skilled subjects. <i>Experimental Brain Research</i> , 2004, 154, 382-394.	1.5	34
45	The gradient of the reinforcement landscape influences sensorimotor learning. <i>PLoS Computational Biology</i> , 2019, 15, e1006839.	3.2	34
46	Changes in visual and sensory-motor resting-state functional connectivity support motor learning by observing. <i>Journal of Neurophysiology</i> , 2015, 114, 677-688.	1.8	33
47	Somatosensory cortical excitability changes precede those in motor cortex during human motor learning. <i>Journal of Neurophysiology</i> , 2019, 122, 1397-1405.	1.8	32
48	Effects of Gravitational Load on Jaw Movements in Speech. <i>Journal of Neuroscience</i> , 1999, 19, 9073-9080.	3.6	31
49	The Influence of Visual Perturbations on the Neural Control of Limb Stiffness. <i>Journal of Neurophysiology</i> , 2009, 101, 246-257.	1.8	30
50	Observed effector-independent motor learning by observing. <i>Journal of Neurophysiology</i> , 2012, 107, 1564-1570.	1.8	30
51	Inter-Joint Coupling Strategy During Adaptation to Novel Viscous Loads in Human Arm Movement. <i>Journal of Neurophysiology</i> , 2004, 92, 754-765.	1.8	28
52	Done in 100 ms: path-dependent visuomotor transformation in the human upper limb. <i>Journal of Neurophysiology</i> , 2018, 119, 1319-1328.	1.8	28
53	Learning New Feedforward Motor Commands Based on Feedback Responses. <i>Current Biology</i> , 2020, 30, 1941-1948.e3.	3.9	28
54	Coordinating long-latency stretch responses across the shoulder, elbow, and wrist during goal-directed reaching. <i>Journal of Neurophysiology</i> , 2016, 116, 2236-2249.	1.8	26

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55	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.	1.8	25
56	Bimanual proprioception: are two hands better than one?. <i>Journal of Neurophysiology</i> , 2014, 111, 1362-1368.	1.8	23
57	Effect of Trial Order and Error Magnitude on Motor Learning by Observing. <i>Journal of Neurophysiology</i> , 2010, 104, 1409-1416.	1.8	22
58	Distributed category-specific recognition memory signals in human perirhinal cortex. <i>Hippocampus</i> , 2016, 26, 423-436.	1.9	22
59	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.	1.8	22
60	Wrist muscle activation, interaction torque and mechanical properties in unskilled throws of different speeds. <i>Experimental Brain Research</i> , 2011, 208, 115-125.	1.5	20
61	Distinct Haptic Cues Do Not Reduce Interference when Learning to Reach in Multiple Force Fields. <i>PLoS ONE</i> , 2008, 3, e1990.	2.5	20
62	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.	1.8	19
63	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.	1.8	19
64	Somatosensory perceptual training enhances motor learning by observing. <i>Journal of Neurophysiology</i> , 2018, 120, 3017-3025.	1.8	18
65	The effect of instruction on motor skill learning. <i>Journal of Neurophysiology</i> , 2020, 124, 1449-1457.	1.8	18
66	Compensation for the Effects of Head Acceleration on Jaw Movement in Speech. <i>Journal of Neuroscience</i> , 2001, 21, 6447-6456.	3.6	16
67	Shape Distortion Produced by Isolated Mismatch Between Vision and Proprioception. <i>Journal of Neurophysiology</i> , 2008, 99, 231-243.	1.8	16
68	Method for assessing directional characteristics of non-uniformly sampled neural activity. <i>Journal of Neuroscience Methods</i> , 2002, 113, 187-197.	2.5	15
69	Optimizing the Distribution of Leg Muscles for Vertical Jumping. <i>PLoS ONE</i> , 2016, 11, e0150019.	2.5	15
70	Movements following force-field adaptation are aligned with altered sense of limb position. <i>Experimental Brain Research</i> , 2019, 237, 1303-1313.	1.5	14
71	Spinal stretch reflexes support efficient control of reaching. <i>Journal of Neurophysiology</i> , 2021, 125, 1339-1347.	1.8	14
72	Neck muscle responses evoked by transcranial magnetic stimulation of the human frontal eye fields. <i>European Journal of Neuroscience</i> , 2011, 33, 2155-2167.	2.6	13

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73	The human motor system alters its reaching movement plan for task-irrelevant, positional forces. <i>Journal of Neurophysiology</i> , 2015, 113, 2137-2149.	1.8	13
74	A novel shoulder–elbow mechanism for increasing speed in a multijoint arm movement. <i>Experimental Brain Research</i> , 2010, 203, 601-613.	1.5	12
75	Deliberate utilization of interaction torques brakes elbow extension in a fast throwing motion. <i>Experimental Brain Research</i> , 2011, 211, 63-72.	1.5	12
76	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.	1.8	12
77	Rapid feedback responses are flexibly coordinated across arm muscles to support goal-directed reaching. <i>Journal of Neurophysiology</i> , 2018, 119, 537-547.	1.8	10
78	Null effects of levodopa on reward- and error-based motor adaptation, savings, and anterograde interference. <i>Journal of Neurophysiology</i> , 2021, 126, 47-67.	1.8	9
79	Generalizing movement patterns following shoulder fixation. <i>Journal of Neurophysiology</i> , 2020, 123, 1193-1205.	1.8	8
80	Skin and muscle receptors shape coordinated fast feedback responses in the upper limb. <i>Current Opinion in Physiology</i> , 2021, 20, 198-205.	1.8	8
81	EEG correlates of physical effort and reward processing during reinforcement learning. <i>Journal of Neurophysiology</i> , 2020, 124, 610-622.	1.8	6
82	Changes in corticospinal excitability associated with motor learning by observing. <i>Experimental Brain Research</i> , 2018, 236, 2829-2838.	1.5	5
83	Differential Dopamine Receptor-Dependent Sensitivity Improves the Switch Between Hard and Soft Selection in a Model of the Basal Ganglia. <i>Neural Computation</i> , 2022, 34, 1588-1615.	2.2	2
84	Observational Motor Learning. , 0, , 525-540.		1
85	The role of feedback in the production of skilled finger sequences. <i>Journal of Neurophysiology</i> , 2022, 127, 829-839.	1.8	1
86	Command invariants and the frame of reference for human movement. <i>Behavioral and Brain Sciences</i> , 1995, 18, 770-772.	0.7	0