Hiroaki Gomi

List of Publications by Year
in descending order

41	3,938	304368 22	276539 41
papers	citations	h-index	g-index

42	42	42	2075
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A computational model of four regions of the cerebellum based on feedback-error learning. Biological Cybernetics, 1992, 68, 95-103.	0.6	583
2	Human arm stiffness and equilibrium-point trajectory during multi-joint movement. Biological Cybernetics, 1997, 76, 163-171.	0.6	329
3	Short- and Long-Term Changes in Joint Co-Contraction Associated With Motor Learning as Revealed From Surface EMG. Journal of Neurophysiology, 2002, 88, 991-1004.	0.9	308
4	Task-Dependent Viscoelasticity of Human Multijoint Arm and Its Spatial Characteristics for Interaction with Environments. Journal of Neuroscience, 1998, 18, 8965-8978.	1.7	306
5	Quantitative Examinations of Internal Representations for Arm Trajectory Planning: Minimum Commanded Torque Change Model. Journal of Neurophysiology, 1999, 81, 2140-2155.	0.9	290
6	The cerebellum and VOR/OKR learning models. Trends in Neurosciences, 1992, 15, 445-453.	4.2	280
7	Neural network control for a closed-loop System using Feedback-error-learning. Neural Networks, 1993, 6, 933-946.	3.3	244
8	Multijoint Muscle Regulation Mechanisms Examined by Measured Human Arm Stiffness and EMG Signals. Journal of Neurophysiology, 1999, 81, 1458-1468.	0.9	191
9	Temporal Firing Patterns of Purkinje Cells in the Cerebellar Ventral Paraflocculus During Ocular Following Responses in Monkeys II. Complex Spikes. Journal of Neurophysiology, 1998, 80, 832-848.	0.9	176
10	Adaptive feedback control models of the vestibulocerebellum and spinocerebellum. Biological Cybernetics, 1992, 68, 105-114.	0.6	165
11	Temporal Firing Patterns of Purkinje Cells in the Cerebellar Ventral Paraflocculus During Ocular Following Responses in Monkeys I. Simple Spikes. Journal of Neurophysiology, 1998, 80, 818-831.	0.9	144
12	A Kendama Learning Robot Based on Bi-directional Theory. Neural Networks, 1996, 9, 1281-1302.	3.3	139
13	Large-Field Visual Motion Directly Induces an Involuntary Rapid Manual Following Response. Journal of Neuroscience, 2005, 25, 4941-4951.	1.7	117
14	Transcranial Magnetic Stimulation over Sensorimotor Cortex Disrupts Anticipatory Reflex Gain Modulation for Skilled Action. Journal of Neuroscience, 2006, 26, 9272-9281.	1.7	103
15	Multiple Motor Learning Strategies in Visuomotor Rotation. PLoS ONE, 2010, 5, e9399.	1.1	80
16	Implicit online corrections of reaching movements. Current Opinion in Neurobiology, 2008, 18, 558-564.	2.0	71
17	Spatiotemporal Tuning of Rapid Interactions between Visual-Motion Analysis and Reaching Movement. Journal of Neuroscience, 2006, 26, 5301-5308.	1.7	64
18	Fast force-generation dynamics of human articulatory muscles. Journal of Applied Physiology, 2004, 96, 2318-2324.	1.2	43

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19	Change in Neuronal Firing Patterns in the Process of Motor Command Generation for the Ocular Following Response. Journal of Neurophysiology, 2001, 86, 1750-1763.	0.9	41
20	Compensatory articulation during bilabial fricative production by regulating muscle stiffness. Journal of Phonetics, 2002, 30, 261-279.	0.6	37
21	Temporal Development of Anticipatory Reflex Modulation to Dynamical Interactions During Arm Movement. Journal of Neurophysiology, 2009, 102, 2220-2231.	0.9	31
22	Implicit Visuomotor Processing for Quick Online Reactions Is Robust against Aging. Journal of Neuroscience, 2010, 30, 205-209.	1.7	30
23	World model learning and inference. Neural Networks, 2021, 144, 573-590.	3.3	28
24	Dynamical simulation of speech cooperative articulation by muscle linkages. Biological Cybernetics, 2004, 91, 275-282.	0.6	15
25	Spatial Coincidence of Intentional Actions Modulates an Implicit Visuomotor Control. Journal of Neurophysiology, 2010, 103, 2717-2727.	0.9	15
26	Effect of visuomotor-map uncertainty on visuomotor adaptation. Journal of Neurophysiology, 2012, 107, 1576-1585.	0.9	15
27	The Hand Sees Visual Periphery Better Than the Eye: Motor-Dependent Visual Motion Analyses. Journal of Neuroscience, 2013, 33, 16502-16509.	1.7	13
28	Parallel and hierarchical neural mechanisms for adaptive and predictive behavioral control. Neural Networks, 2021, 144, 507-521.	3.3	13
29	Close Similarity Between Spatiotemporal Frequency Tunings of Human Cortical Responses and Involuntary Manual Following Responses to Visual Motion. Journal of Neurophysiology, 2009, 101, 888-897.	0.9	12
30	Sensorimotor organization of a sustained involuntary movement. Frontiers in Behavioral Neuroscience, 2015, 9, 185.	1.0	10
31	Visually-updated hand state estimates modulate the proprioceptive reflex independently of motor task requirements. ELife, 2020, 9, .	2.8	10
32	Online gain update for manual following response accompanied by gaze shift during arm reaching. Journal of Neurophysiology, 2015, 113, 1206-1216.	0.9	6
33	The faster you decide, the more accurate localization is possible: Position representation of â€œcurveball illusionâ€•in perception and eye movements. PLoS ONE, 2018, 13, e0201610.	1.1	6
34	Interplay of tactile and motor information in constructing spatial self-perception. Current Biology, 2022, 32, 1301-1309.e3.	1.8	6
35	On Stopping Voluntary Muscle Relaxations and Contractions: Evidence for Shared Control Mechanisms and Muscle State-Specific Active Breaking. Journal of Neuroscience, 2020, 40, 6035-6048.	1.7	4
36	Distinct temporal developments of visual motion and position representations for multi-stream visuomotor coordination. Scientific Reports, 2019, 9, 12104.	1.6	3

#	Article	IF	Citations
37	Evidence that endpoint feedback facilitates intermanual transfer of visuomotor force learning by a cognitive strategy. Journal of Neurophysiology, 2022, 127, 16-26.	0.9	3
38	Lack of motor prediction, rather than perceptual conflict, evokes an odd sensation upon stepping onto a stopped escalator. Frontiers in Behavioral Neuroscience, 2014, 8, 77.	1.0	2
39	Typical use of inverse dynamics in perceiving motion in autistic adults: Exploring computational principles of perception and action. Autism Research, 2018, 11, 1062-1075.	2.1	2
40	Seeing motion of controlled object improves grip timing in adults with autism spectrum condition: evidence for use of inverse dynamics in motor control. Experimental Brain Research, 2021, 239, 1047-1059.	0.7	2
41	Gaze control during reaching is flexibly modulated to optimize task outcome. Journal of Neurophysiology, 2021, 126, 816-826.	0.9	1