Anatol G Feldman

List of Publications by Year
in descending order

82 papers	5,209 citations	117625 34 h-index	88630 70 g-index
85 all docs	85 docs citations	85 times ranked	2165 citing authors

#	Article	IF	Citations
1	Once More on the Equilibrium-Point Hypothesis (Î» Model) for Motor Control. Journal of Motor Behavior, 1986, 18, 17-54.	0.9	1,177
2	The origin and use of positional frames of reference in motor control. Behavioral and Brain Sciences, 1995, 18, 723-744.	0.7	639
3	A critical evaluation of the force control hypothesis in motor control. Experimental Brain Research, 2003, 153, 275-288.	1.5	228
4	Control of Trajectory Modifications in Target-Directed Reaching. Journal of Motor Behavior, 1993, 25, 140-152.	0.9	211
5	The role of stretch reflex threshold regulation in normal and impaired motor control. Brain Research, 1994, 657, 23-30.	2.2	190
6	Testing hypotheses and the advancement of science: recent attempts to falsify the equilibrium point hypothesis. Experimental Brain Research, 2005, 161, 91-103.	1.5	176
7	The Equilibrium-Point Hypothesis â€" Past, Present and Future. Advances in Experimental Medicine and Biology, 2009, 629, 699-726.	1.6	116
8	Referent control of action and perception. , 2015, , .		114
9	Reciprocal and coactivation commands for fast wrist movements. Experimental Brain Research, 1992, 89, 669-77.	1.5	111
10	New insights into actionâ€"perception coupling. Experimental Brain Research, 2009, 194, 39-58.	1.5	110
11	Threshold position control of arm movement with anticipatory increase in grip force. Experimental Brain Research, 2007, 181, 49-67.	1.5	96
12	Hand trajectory invariance in reaching movements involving the trunk. Experimental Brain Research, 2001, 138, 288-303.	1.5	86
13	The control of multi-muscle systems: human jaw and hyoid movements. Biological Cybernetics, 1996, 74, 373-384.	1.3	78
14	Recent Tests of the Equilibrium-Point Hypothesis (Î» Model). Motor Control, 1998, 2, 189-205.	0.6	75
15	Multi-muscle control of head movements in monkeys: the referent configuration hypothesis. Neuroscience Letters, 2000, 283, 65-68.	2.1	74
16	Threshold position control and the principle of minimal interaction in motor actions. Progress in Brain Research, 2007, 165, 267-281.	1.4	72
17	Prehension synergies and control with referent hand configurations. Experimental Brain Research, 2010, 202, 213-229.	1.5	70
18	Control of wrist position and muscle relaxation by shifting spatial frames of reference for motoneuronal recruitment: possible involvement of corticospinal pathways. Journal of Physiology, 2010, 588, 1551-1570.	2.9	70

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19	1998 ISEK Congress Keynote Lecture. Journal of Electromyography and Kinesiology, 1998, 8, 383-390.	1.7	68
20	Space and time in the context of equilibriumâ€point theory. Wiley Interdisciplinary Reviews: Cognitive Science, 2011, 2, 287-304.	2.8	66
21	The timing of arm-trunk coordination is deficient and vision-dependent in Parkinson's patients during reaching movements. Experimental Brain Research, 2000, 133, 279-292.	1.5	61
22	Stretch reflex spatial threshold measure discriminates between spasticity and rigidity. Clinical Neurophysiology, 2013, 124, 740-751.	1.5	59
23	Effects of walking speed on gait stability and interlimb coordination in younger and older adults. Gait and Posture, 2014, 39, 378-385.	1.4	59
24	Referent configuration of the body: a global factor in the control of multiple skeletal muscles. Experimental Brain Research, 2004, 155, 291-300.	1.5	48
25	Central Modifications of Reflex Parameters May Underlie the Fastest Arm Movements. Journal of Neurophysiology, 1997, 77, 1460-1469.	1.8	47
26	Superposition of independent units of coordination during pointing movements involving the trunk with and without visual feedback. Experimental Brain Research, 2000, 131, 336-349.	1.5	46
27	Vestibular contribution to combined arm and trunk motion. Experimental Brain Research, 2003, 150, 515-519.	1.5	44
28	Threshold control of motor actions prevents destabilizing effects of proprioceptive delays. Experimental Brain Research, 2006, 174, 229-239.	1.5	44
29	Origin and Advances of the Equilibrium-Point Hypothesis. Advances in Experimental Medicine and Biology, 2009, 629, 637-643.	1.6	44
30	Phasic and tonic stretch reflexes in muscles with few muscle spindles: human jaw-opener muscles. Experimental Brain Research, 1997, 116, 299-308.	1.5	43
31	Armâ€"Trunk Coordination for Beyond-the-Reach Movements in Adults With Stroke. Neurorehabilitation and Neural Repair, 2014, 28, 355-366.	2.9	42
32	Sequential control signals determine arm and trunk contributions to hand transport during reaching in humans. Journal of Physiology, 2002, 538, 659-671.	2.9	41
33	Changes in the referent body location and configuration may underlie human gait, as confirmed by findings of multi-muscle activity minimizations and phase resetting. Experimental Brain Research, 2011, 210, 91-115.	1.5	41
34	Active sensing without efference copy: referent control of perception. Journal of Neurophysiology, 2016, 116, 960-976.	1.8	39
35	Reduced gait stability in high-functioning poststroke individuals. Journal of Neurophysiology, 2013, 109, 77-88.	1.8	36
36	Subthreshold corticospinal control of anticipatory actions in humans. Behavioural Brain Research, 2011, 224, 145-154.	2.2	35

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37	Basic elements of arm postural control analyzed by unloading. Experimental Brain Research, 2005, 164, 225-241.	1.5	33
38	Corticospinal control strategies underlying voluntary and involuntary wrist movements. Behavioural Brain Research, 2013, 236, 350-358.	2.2	33
39	Pointing movements may be produced in different frames of reference depending on the task demand. Brain Research, 2002, 929, 117-128.	2.2	32
40	Threshold control of arm posture and movement adaptation to load. Experimental Brain Research, 2006, 175, 726-744.	1.5	32
41	Indirect, referent control of motor actions underlies directional tuning of neurons. Journal of Neurophysiology, 2019, 121, 823-841.	1.8	32
42	Spasticity may obscure motor learning ability after stroke. Journal of Neurophysiology, 2018, 119, 5-20.	1.8	31
43	The Relationship Between Postural and Movement Stability. Advances in Experimental Medicine and Biology, 2016, 957, 105-120.	1.6	28
44	Vestibular and corticospinal control of human body orientation in the gravitational field. Journal of Neurophysiology, 2018, 120, 3026-3041.	1.8	28
45	Stretch-reflex threshold modulation during active elbow movements in post-stroke survivors with spasticity. Clinical Neurophysiology, 2017, 128, 1891-1897.	1.5	27
46	Implicit learning and generalization of stretch response modulation in humans. Journal of Neurophysiology, 2016, 115, 3186-3194.	1.8	24
47	Compensatory armâ€“trunk coordination in pointing movements is preserved in the absence of visual feedback. Brain Research, 1998, 802, 274-280.	2.2	23
48	Central pattern generator and human locomotion in the context of referent control of motor actions. Clinical Neurophysiology, 2021, 132, 2870-2889.	1.5	23
49	Reach-to-grasp movement as a minimization process. Experimental Brain Research, 2010, 201, 75-92.	1.5	22
50	A stretch reflex in extraocular muscles of species purportedly lacking muscle spindles. Experimental Brain Research, 2007, 180, 15-21.	1.5	21
51	Referent control of the orientation of posture and movement in the gravitational field. Experimental Brain Research, 2018, 236, 381-398.	1.5	20
52	Activation of elbow extensors during passive stretch of flexors in patients with post-stroke spasticity. Clinical Neurophysiology, 2018, 129, 2065-2074.	1.5	19
53	Stability of reaching during standing in stroke. Journal of Neurophysiology, 2020, 123, 1756-1765.	1.8	18
54	The control of multi-muscle systems: human jaw and hyoid movements. Biological Cybernetics, 1996, 74, 373-384.	1.3	17

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55	Central Resetting of Neuromuscular Steady States May Underlie Rhythmical Arm Movements. Journal of Neurophysiology, 2006, 96, 1124-1134.	1.8	16
56	Joint coordination during bimanual transport of real and imaginary objects. Neuroscience Letters, 2009, 456, 80-84.	2.1	16
57	Eye and head movements and vestibulo-ocular reflex in the context of indirect, referent control of motor actions. Journal of Neurophysiology, 2020, 124, 115-133.	1.8	16
58	Deficits in corticospinal control of stretch reflex thresholds in stroke: Implications for motor impairment. Clinical Neurophysiology, 2020, 131, 2067-2078.	1.5	15
59	Guiding Movements without Redundancy Problems. Understanding Complex Systems, 2004, , 155-176.	0.6	14
60	Referent control and motor equivalence of reaching from standing. Journal of Neurophysiology, 2017, 117, 303-315.	1.8	13
61	Referent control of anticipatory grip force during reaching in stroke: an experimental and modeling study. Experimental Brain Research, 2019, 237, 1655-1672.	1.5	12
62	Actionâ€"perception coupling in kinesthesia: A new approach. Neuropsychologia, 2013, 51, 2590-2599.	1.6	11
63	A New Standard in Objective Measurement of Spasticity. Journal of Medical Devices, Transactions of the ASME, 2013, 7, .	0.7	10
64	Spatial control of reflexes, posture and movement in normal conditions and after neurological lesions. Journal of Human Kinetics, 2016, 52, 21-34.	1.5	9
65	Threshold position control signifies a common spatial frame of reference for motor action and kinesthesia. Brain Research Bulletin, 2008, 75, 497-499.	3.0	8
66	Arm-trunk coordination as a measure of vestibulospinal efficiency. Journal of Vestibular Research: Equilibrium and Orientation, 2013, 23, 237-247.	2.0	8
67	Threshold position control of anticipation in humans: a possible role of corticospinal influences. Journal of Physiology, 2017, 595, 5359-5374.	2.9	8
68	Motor Control and Position Sense: Actionâ€"Perception Coupling. Advances in Experimental Medicine and Biology, 2014, 826, 17-31.	1.6	8
69	Bilateral coupling facilitates recovery of rhythmical movements from perturbation in healthy and post-stroke subjects. Experimental Brain Research, 2013, 227, 263-274.	1.5	7
70	Development of vertical and forward jumping skills in typically developing children in the context of referent control of motor actions. Developmental Psychobiology, 2020, 62, 711-722.	1.6	7
71	Visual deprivation is met with active changes in ground reaction forces to minimize worsening balance and stability during walking. Experimental Brain Research, 2020, 238, 369-379.	1.5	6
72	Mild Stroke Affects Pointing Movements Made in Different Frames of Reference. Neurorehabilitation and Neural Repair, 2021, 35, 207-219.	2.9	3

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73	Control variables in movement production: An experimentally derived concept. Behavioral and Brain Sciences, 1997, 20, 773-773.	0.7	1
74	With either separate or integrated arrays of senses, perception may not be direct. Behavioral and Brain Sciences, 2001, 24, 220-221.	0.7	0
75	2074v Alpha1-Beta1 and Alpha6-Beta1-Integrin. , 2008, , 1-1.		0
76	How the Brain Solves Redundancy Problems. Motor Control, 2010, 14, e1-e5.	0.6	0
77	Action and Perception in the Context of Physical Laws. , 2015, , 13-32.		0
78	Physiological Origin and Feed-Forward Nature of Referent Control. , 2015, , 83-95.		0
79	Different Forms of Referent Control. , 2015, , 97-128.		0
80	Solutions to Classical Problems in the Control of Motor Actions. , 2015, , 129-172.		0
81	Referent Control as a Specific Form of Parametric Control of Actions: Empirical Demonstrations. , 2015, , 33-82.		0
82	Effect of Object Texture and Weight on Ipsilateral Corticospinal Influences During Bimanual Holding in Humans. Motor Control, 2022, 26, 76-91.	0.6	0