

Alexander S Aruin

List of Publications by Year in descending order

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116
papers

3,632
citations

101543

36
h-index

155660

55
g-index

118
all docs

118
docs citations

118
times ranked

2318
citing authors

#	ARTICLE	IF	CITATIONS
1	Teager's Kaiser Energy Operation of Surface EMG Improves Muscle Activity Onset Detection. <i>Annals of Biomedical Engineering</i> , 2007, 35, 1532-1538.	2.5	209
2	The role of anticipatory postural adjustments in compensatory control of posture: 1. Electromyographic analysis. <i>Journal of Electromyography and Kinesiology</i> , 2010, 20, 388-397.	1.7	205
3	Anticipatory postural adjustments in conditions of postural instability. <i>Electroencephalography and Clinical Neurophysiology - Electromyography and Motor Control</i> , 1998, 109, 350-359.	1.4	166
4	The role of anticipatory postural adjustments in compensatory control of posture: 2. Biomechanical analysis. <i>Journal of Electromyography and Kinesiology</i> , 2010, 20, 398-405.	1.7	163
5	The effect of aging on anticipatory postural control. <i>Experimental Brain Research</i> , 2014, 232, 1127-1136.	1.5	120
6	The relation between posture and movement: A study of a simple synergy in a two-joint task. <i>Human Movement Science</i> , 1995, 14, 79-107.	1.4	89
7	Aging and balance control in response to external perturbations: role of anticipatory and compensatory postural mechanisms. <i>Age</i> , 2014, 36, 9621.	3.0	89
8	A Coactivation Strategy in Anticipatory Postural Adjustments in Persons with Down Syndrome. <i>Motor Control</i> , 1997, 1, 178-191.	0.6	72
9	Two stages and three components of the postural preparation to action. <i>Experimental Brain Research</i> , 2011, 212, 47-63.	1.5	72
10	Anticipatory postural adjustments during self-initiated perturbations of different magnitude triggered by a standard motor action. <i>Electroencephalography and Clinical Neurophysiology - Electromyography and Motor Control</i> , 1996, 101, 497-503.	1.4	71
11	The role of action in postural preparation for loading and unloading in standing subjects. <i>Experimental Brain Research</i> , 2001, 138, 458-466.	1.5	71
12	Task-specific modulation of anticipatory postural adjustments in individuals with hemiparesis. <i>Clinical Neurophysiology</i> , 2002, 113, 642-655.	1.5	65
13	Feedforward postural adjustments in a simple two-joint synergy in patients with Parkinson's disease. <i>Electroencephalography and Clinical Neurophysiology - Electromyography and Motor Control</i> , 1995, 97, 77-89.	1.4	64
14	Anticipatory postural control following fatigue of postural and focal muscles. <i>Clinical Neurophysiology</i> , 2008, 119, 2304-2313.	1.5	62
15	The effect of shoe wedges and lifts on symmetry of stance and weight bearing in hemiparetic individuals. <i>Archives of Physical Medicine and Rehabilitation</i> , 2002, 83, 478-482.	0.9	61
16	Improvement of anticipatory postural adjustments for balance control: Effect of a single training session. <i>Journal of Electromyography and Kinesiology</i> , 2015, 25, 400-405.	1.7	60
17	Anticipatory postural adjustments in individuals with multiple sclerosis. <i>Neuroscience Letters</i> , 2012, 506, 256-260.	2.1	59
18	Postural control in response to an external perturbation: effect of altered proprioceptive information. <i>Experimental Brain Research</i> , 2012, 217, 197-208.	1.5	56

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19	Anticipatory postural adjustments in children with hemiplegia and diplegia. <i>Journal of Electromyography and Kinesiology</i> , 2011, 21, 988-997.	1.7	55
20	The effect of shoe lifts on static and dynamic postural control in individuals with hemiparesis. <i>Archives of Physical Medicine and Rehabilitation</i> , 2000, 81, 1498-1503.	0.9	54
21	Early and late components of feed-forward postural adjustments to predictable perturbations. <i>Clinical Neurophysiology</i> , 2012, 123, 1016-1026.	1.5	53
22	Enhancement of anticipatory postural adjustments in older adults as a result of a single session of ball throwing exercise. <i>Experimental Brain Research</i> , 2015, 233, 649-655.	1.5	53
23	Grip Force Control in Individuals With Multiple Sclerosis. <i>Neurorehabilitation and Neural Repair</i> , 2009, 23, 855-861.	2.9	52
24	Anticipatory and compensatory postural adjustments in individuals with multiple sclerosis in response to external perturbations. <i>Neuroscience Letters</i> , 2015, 591, 182-186.	2.1	51
25	Compelled Body Weight Shift Approach in Rehabilitation of Individuals With Chronic Stroke. <i>Topics in Stroke Rehabilitation</i> , 2012, 19, 556-563.	1.9	49
26	Frequency analysis approach to study balance control in individuals with multiple sclerosis. <i>Journal of Neuroscience Methods</i> , 2014, 222, 91-96.	2.5	48
27	The effect of asymmetry of posture on anticipatory postural adjustments. <i>Neuroscience Letters</i> , 2006, 401, 150-153.	2.1	46
28	The Effect of Changes in the Body Configuration on Anticipatory Postural Adjustments. <i>Motor Control</i> , 2003, 7, 264-277.	0.6	45
29	Role of lateral muscles and body orientation in feedforward postural control. <i>Experimental Brain Research</i> , 2008, 184, 547-559.	1.5	45
30	The organization of anticipatory postural adjustments. <i>Journal of Automatic Control</i> , 2002, 12, 31-37.	1.0	43
31	Anticipatory postural adjustments while sitting: The effects of different leg supports. <i>Experimental Brain Research</i> , 2003, 151, 46-53.	1.5	42
32	Effects of lateral perturbations and changing stance conditions on anticipatory postural adjustment. <i>Journal of Electromyography and Kinesiology</i> , 2009, 19, 532-541.	1.7	42
33	Direction-specific impairments of limits of stability in individuals with multiple sclerosis. <i>Annals of Physical and Rehabilitation Medicine</i> , 2015, 58, 145-150.	2.3	40
34	Enhancing Anticipatory Postural Adjustments: A Novel Approach to Balance Rehabilitation. <i>Journal of Novel Physiotherapies</i> , 2016, 06, .	0.1	40
35	Modulation of anticipatory postural adjustments associated with unloading perturbation: effect of characteristics of a motor action. <i>Experimental Brain Research</i> , 2007, 178, 206-215.	1.5	39
36	Effect of a textured insole on balance and gait symmetry. <i>Experimental Brain Research</i> , 2013, 231, 201-208.	1.5	38

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37	Older adults utilize less efficient postural control when performing pushing task. <i>Journal of Electromyography and Kinesiology</i> , 2015, 25, 966-972.	1.7	38
38	Anticipatory postural adjustments associated with lateral and rotational perturbations during standing. <i>Journal of Electromyography and Kinesiology</i> , 2001, 11, 39-51.	1.7	37
39	Anticipatory postural adjustments in children with typical motor development. <i>Experimental Brain Research</i> , 2010, 205, 153-165.	1.5	35
40	The effect of decreased visual acuity on control of posture. <i>Clinical Neurophysiology</i> , 2012, 123, 173-182.	1.5	34
41	Feedforward postural control in individuals with multiple sclerosis during load release. <i>Gait and Posture</i> , 2012, 36, 225-230.	1.4	33
42	Support-specific modulation of grip force in individuals with hemiparesis. <i>Archives of Physical Medicine and Rehabilitation</i> , 2005, 86, 768-775.	0.9	32
43	The effect of short-term changes in the body mass on anticipatory postural adjustments. <i>Experimental Brain Research</i> , 2007, 181, 333-346.	1.5	32
44	Postural control in response to a perturbation: role of vision and additional support. <i>Experimental Brain Research</i> , 2011, 212, 385-397.	1.5	28
45	The Effect of a Four-Week Balance Training Program on Anticipatory Postural Adjustments in Older Adults: A Pilot Feasibility Study. <i>Current Aging Science</i> , 2016, 9, 295-300.	1.2	27
46	Anticipatory postural adjustments associated with rotational perturbations while standing on fixed and free-rotating supports. <i>Clinical Neurophysiology</i> , 2004, 115, 797-806.	1.5	26
47	Grip Force Control in Individuals with Hand Osteoarthritis. <i>Journal of Hand Therapy</i> , 2011, 24, 345-355.	1.5	26
48	The effect of lateral or medial wedges on control of postural sway in standing. <i>Gait and Posture</i> , 2014, 39, 899-903.	1.4	26
49	Anticipatory and compensatory postural adjustments in conditions of body asymmetry induced by holding an object. <i>Experimental Brain Research</i> , 2015, 233, 3087-3096.	1.5	25
50	Automatic postural responses in individuals with peripheral neuropathy and ankle-foot orthoses. <i>Diabetes Research and Clinical Practice</i> , 2006, 74, 48-56.	2.8	24
51	Effect of light finger touch in balance control of individuals with multiple sclerosis. <i>Gait and Posture</i> , 2013, 38, 643-647.	1.4	24
52	Support surface related changes in feedforward and feedback control of standing posture. <i>Journal of Electromyography and Kinesiology</i> , 2014, 24, 144-152.	1.7	24
53	Improvement of postural control in individuals with multiple sclerosis after a single-session of ball throwing exercise. <i>Multiple Sclerosis and Related Disorders</i> , 2017, 17, 224-229.	2.0	24
54	The effect of short-term changes in body mass distribution on feed-forward postural control. <i>Journal of Electromyography and Kinesiology</i> , 2009, 19, 931-941.	1.7	23

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55	Compelled Body Weight Shift Technique to Facilitate Rehabilitation of Individuals with Acute Stroke. <i>ISRN Rehabilitation</i> , 2012, 2012, 1-7.	0.6	23
56	Gait assessment during the initial fitting of an ankle foot orthosis in individuals with stroke. <i>Disability and Rehabilitation: Assistive Technology</i> , 2008, 3, 201-207.	2.2	22
57	Base of support feedback in gait rehabilitation. <i>International Journal of Rehabilitation Research</i> , 2003, 26, 309-312.	1.3	21
58	Role of point of application of perturbation in control of vertical posture. <i>Experimental Brain Research</i> , 2017, 235, 3449-3457.	1.5	21
59	Immediate and short-term effects of wearing a single textured insole on symmetry of stance and gait in healthy adults. <i>Gait and Posture</i> , 2016, 49, 190-195.	1.4	20
60	Individuals with stroke improve anticipatory postural adjustments after a single session of targeted exercises. <i>Human Movement Science</i> , 2020, 69, 102559.	1.4	20
61	A textured insole improves gait symmetry in individuals with stroke. <i>Disability and Rehabilitation</i> , 2018, 40, 2798-2802.	1.8	19
62	The effect of the amplitude of motor action on anticipatory postural adjustments. <i>Journal of Electromyography and Kinesiology</i> , 2004, 14, 455-462.	1.7	18
63	Effect of contralateral finger touch on grip force control in individuals with multiple sclerosis. <i>Clinical Neurophysiology</i> , 2009, 120, 626-631.	1.5	18
64	Are there deficits in anticipatory postural adjustments in Parkinson's disease?. <i>NeuroReport</i> , 1996, 7, 1794-1796.	1.2	17
65	Three components of postural control associated with pushing in symmetrical and asymmetrical stance. <i>Experimental Brain Research</i> , 2013, 228, 341-351.	1.5	17
66	Could a motor action that has no direct relation to expected perturbation be associated with anticipatory postural adjustments in humans?. <i>Neuroscience Letters</i> , 2003, 341, 21-24.	2.1	16
67	Effect of predictability of the magnitude of a perturbation on anticipatory and compensatory postural adjustments. <i>Experimental Brain Research</i> , 2020, 238, 2207-2219.	1.5	16
68	Static and dynamic visual cues in feed-forward postural control. <i>Experimental Brain Research</i> , 2013, 224, 25-34.	1.5	15
69	Knee position feedback: its effect on management of pelvic instability in a stroke patient. <i>Disability and Rehabilitation</i> , 2000, 22, 690-692.	1.8	14
70	Characteristics of medial-lateral postural control while exposed to the external perturbation in step initiation. <i>Scientific Reports</i> , 2019, 9, 16817.	3.3	14
71	Control of grip force and vertical posture while holding an object and being perturbed. <i>Experimental Brain Research</i> , 2016, 234, 3193-3201.	1.5	13
72	Velocity-dependent activation of postural muscles in a simple two-joint synergy. <i>Human Movement Science</i> , 1995, 14, 351-369.	1.4	11

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73	Simple Lower Extremity Two-Joint Synergy. <i>Perceptual and Motor Skills</i> , 2001, 92, 563-568.	1.3	10
74	Standing on a sliding board affects generation of anticipatory and compensatory postural adjustments. <i>Journal of Electromyography and Kinesiology</i> , 2018, 38, 168-174.	1.7	10
75	Effect of a cognitive task and light finger touch on standing balance in healthy adults. <i>Experimental Brain Research</i> , 2018, 236, 399-407.	1.5	10
76	Role of Movement Velocity on the Magnitude of Grip Force while Lifting an Object with Touch from the Contralateral Finger. <i>Motor Control</i> , 2009, 13, 130-141.	0.6	9
77	Ankle-Foot Orthoses: Proprioceptive Inputs and Balance Implications. <i>Journal of Prosthetics and Orthotics</i> , 2010, 22, 34-37.	0.4	9
78	The Effects of Two Different Ankle-Foot Orthoses on Gait of Patients with Acute Hemiparetic Cerebrovascular Accident. <i>Rehabilitation Research and Practice</i> , 2014, 2014, 1-7.	0.6	9
79	Isolated and combined effects of asymmetric stance and pushing movement on the anticipatory and compensatory postural control. <i>Clinical Neurophysiology</i> , 2014, 125, 768-776.	1.5	9
80	Effects of asymmetrical stance and movement on body rotation in pushing. <i>Journal of Biomechanics</i> , 2015, 48, 283-289.	2.1	9
81	The Effect of Motor and Cognitive Tasks on Gait in People with Stroke. <i>Journal of Stroke and Cerebrovascular Diseases</i> , 2019, 28, 104330.	1.6	9
82	Role of motor and cognitive tasks in gait of individuals with mild cognitive impairment. <i>International Journal of Rehabilitation Research</i> , 2019, 42, 174-179.	1.3	9
83	Does the location of the touch from the contralateral finger application affect grip force control while lifting an object?. <i>Neuroscience Letters</i> , 2007, 425, 151-155.	2.1	8
84	The effect of a single textured insole in gait rehabilitation of individuals with stroke. <i>International Journal of Rehabilitation Research</i> , 2018, 41, 218-223.	1.3	8
85	Control of vertical posture while standing on a sliding board and pushing an object. <i>Experimental Brain Research</i> , 2018, 236, 721-731.	1.5	8
86	Individual and combined effects of a cognitive task, light finger touch, and vision on standing balance in older adults with mild cognitive impairment. <i>Aging Clinical and Experimental Research</i> , 2020, 32, 797-807.	2.9	8
87	The role of an auditory cue in generating anticipatory postural adjustments in response to an external perturbation. <i>Experimental Brain Research</i> , 2020, 238, 631-641.	1.5	8
88	Anticipatory postural adjustments in conditions of simulated reduced gravity. <i>Gait and Posture</i> , 2008, 28, 538-544.	1.4	7
89	Role of ankle foot orthoses in the outcome of clinical tests of balance. <i>Disability and Rehabilitation: Assistive Technology</i> , 2013, 8, 314-320.	2.2	7
90	Control of vertical posture while elevating one foot to avoid a real or virtual obstacle. <i>Experimental Brain Research</i> , 2017, 235, 1677-1687.	1.5	7

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91	Effect of Chair Design on Feed-Forward Postural Control in Sitting. <i>Motor Control</i> , 2007, 11, 309-321.	0.6	6
92	Standing on wedges modifies side-specific postural control in the presence of lateral external perturbations. <i>Journal of Electromyography and Kinesiology</i> , 2017, 36, 16-24.	1.7	6
93	Does the type of somatosensory information from the contralateral finger touch affect grip force control while lifting an object?. <i>Neuroscience Letters</i> , 2013, 556, 196-199.	2.1	5
94	Perceptual distortion in virtual reality and its impact on dynamic postural control. <i>Gait and Posture</i> , 2022, 92, 123-128.	1.4	5
95	Individuals With Stroke Use Asymmetrical Anticipatory Postural Adjustments When Counteracting External Perturbations. <i>Motor Control</i> , 2019, 23, 461-471.	0.6	4
96	Role of a single session of ball throwing exercise on postural control in older adults with mild cognitive impairment. <i>European Journal of Applied Physiology</i> , 2020, 120, 443-451.	2.5	4
97	The effect of a textured insole on anticipatory postural adjustments. <i>Somatosensory & Motor Research</i> , 2021, 38, 188-193.	0.9	4
98	The role of predictability of the magnitude of a perturbation in control of vertical posture when catching an object. <i>Human Movement Science</i> , 2021, 80, 102890.	1.4	4
99	The Effect of a Textured Insole on Symmetry of Turning. <i>Rehabilitation Research and Practice</i> , 2018, 2018, 1-6.	0.6	3
100	Compelled Body Weight Shift Approach in Rehabilitation of Individuals With Chronic Stroke. <i>Topics in Stroke Rehabilitation</i> , 2012, 19, 556-563.	1.9	3
101	Effect of Light Finger Touch, a Cognitive Task, and Vision on Standing Balance in Stroke. <i>Journal of Motor Behavior</i> , 2021, 53, 157-165.	0.9	2
102	Reaching in sitting: The effect of seat design and body manipulations. <i>Work</i> , 2022, 71, 201-207.	1.1	2
103	Older adults can rely on an auditory cue to generate anticipatory postural adjustments prior to an external perturbation. <i>Experimental Brain Research</i> , 2022, 240, 1279-1292.	1.5	2
104	The Importance of Negative Acceleration of the Load in Free-Style Lifting. <i>Perceptual and Motor Skills</i> , 2015, 121, 163-169.	1.3	1
105	The Use of Negative Acceleration as Accessory Force during Lifting. <i>Advances in Orthopedics</i> , 2018, 2018, 1-4.	1.0	1
106	Enhancement of balance, and mobility in individuals with multiple sclerosis using visual cue guided multidirectional step training - A pilot study. <i>Multiple Sclerosis and Related Disorders</i> , 2021, 55, 103167.	2.0	1
107	Role of angular position of the seat in control of posture in response to external perturbation. <i>Experimental Brain Research</i> , 2022, 240, 481-490.	1.5	1
108	The Role of Predictability of Perturbation in Control of Posture: A Scoping Review. <i>Motor Control</i> , 2022, 26, 97-143.	0.6	1

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109	Poster 238: Sensory Cues Improve Automatic Postural Responses in Peripheral Neuropathy. PM and R, 2009, 1, S207-S207.	1.6	0
110	Poster 416: Weight Supported Pre-Gait Balance Rehabilitation in Acute Stroke Patients: A Preliminary Study. PM and R, 2009, 1, S285-S285.	1.6	0
111	Obtaining Glenoid Positioning Data from Scapular Palpable Points In Vitro. Advances in Orthopedics, 2013, 2013, 1-4.	1.0	0
112	Are Two Hands Sensing the Load Better than One?. Motor Control, 2015, 19, 127-130.	0.6	0
113	Unilateral Discomfort Increases the Use of Contralateral Side during Sit-to-Stand Transfer. Rehabilitation Research and Practice, 2017, 2017, 1-7.	0.6	0
114	Pushing Induced Sliding Perturbation Affects Postural Responses to Maintain Balance Standing. Advances in Intelligent Systems and Computing, 2019, , 717-724.	0.6	0
115	The Effect of Predictability of the Perturbation Magnitude on Anticipatory and Compensatory Postural Adjustments during a Bimanual Load-Lifting Task. Journal of Motor Behavior, 2022, , 1-10.	0.9	0
116	Perturbation-based training enhances anticipatory postural control in individuals with chronic stroke: a pilot study. International Journal of Rehabilitation Research, 2022, 45, 72-78.	1.3	0