Andrew G Cresswell

List of Publications by Year
in descending order

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127 papers	6,062 citations	71102 41 h-index	82547 72 g-index
137 all docs	137 docs citations	137 times ranked	4052 citing authors

#	Article	IF	Citations
1	Observations on intraâ€abdominal pressure and patterns of abdominal intraâ€muscular activity in man. Acta Physiologica Scandinavica, 1992, 144, 409-418.	2.2	340
2	Muscle activation during maximal voluntary eccentric and concentric knee extension. European Journal of Applied Physiology and Occupational Physiology, 1991, 62, 104-108.	1.2	272
3	Preparatory trunk motion accompanies rapid upper limb movement. Experimental Brain Research, 1999, 124, 69-79.	1.5	269
4	Proprioceptive Neuromuscular Facilitation Stretching. Sports Medicine, 2006, 36, 929-939.	6.5	233
5	Intrinsic foot muscles have the capacity to control deformation of the longitudinal arch. Journal of the Royal Society Interface, 2014, 11, 20131188.	3.4	226
6	Recruitment of the plantar intrinsic foot muscles with increasing postural demand. Clinical Biomechanics, 2012, 27, 46-51.	1.2	199
7	Intervertebral Stiffness of the Spine Is Increased by Evoked Contraction of Transversus Abdominis and the Diaphragm: In Vivo Porcine Studies. Spine, 2003, 28, 2594-2601.	2.0	195
8	Active regulation of longitudinal arch compression and recoil during walking and running. Journal of the Royal Society Interface, 2015, 12, 20141076.	3.4	156
9	In vivo measurement of the effect of intra-abdominal pressure on the human spine. Journal of Biomechanics, 2001, 34, 347-353.	2.1	147
10	The functional importance of human foot muscles for bipedal locomotion. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 1645-1650.	7.1	139
11	Three dimensional preparatory trunk motion precedes asymmetrical upper limb movement. Gait and Posture, 2000, 11, 92-101.	1.4	120
12	The effect of muscle length on motor-unit recruitment during isometric plantar flexion in humans. Experimental Brain Research, 2001, 137, 58-64.	1.5	115
13	Central and peripheral contributions to fatigue in relation to level of activation during repeated maximal voluntary isometric plantar flexions. Journal of Applied Physiology, 2004, 96, 218-225.	2.5	109
14	Changes in intra-abdominal pressure, trunk muscle activation and force during isokinetic lifting and lowering. European Journal of Applied Physiology and Occupational Physiology, 1994, 68, 315-321.	1.2	108
15	Recruitment and rate coding organisation for soleus motor units across entire range of voluntary isometric plantar flexions. Journal of Physiology, 2009, 587, 4737-4748.	2.9	105
16	An enhanced level of motor cortical excitability during the control of human standing. Acta Physiologica, 2009, 195, 385-395.	3.8	95
17	Reactive stepping behaviour in response to forward loss of balance predicts future falls in community-dwelling older adults. Age and Ageing, 2015, 44, 109-115.	1.6	89
18	Hâ€reflex modulation during passive lengthening and shortening of the human triceps surae. Journal of Physiology, 2001, 534, 913-923.	2.9	83

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19	Residual force enhancement after lengthening is present during submaximal plantar flexion and dorsiflexion actions in humans. Journal of Applied Physiology, 2007, 102, 18-25.	2.5	75
20	Central fatigue during a long-lasting submaximal contraction of the triceps surae. Experimental Brain Research, 1996, 108, 305-14.	1.5	74
21	Responses of intra-abdominal pressure and abdominal muscle activity during dynamic trunk loading in man. European Journal of Applied Physiology and Occupational Physiology, 1993, 66, 315-320.	1.2	71
22	Three-dimensional geometrical changes of the human tibialis anterior muscle and its central aponeurosis measured with three-dimensional ultrasound during isometric contractions. PeerJ, 2016, 4, e2260.	2.0	71
23	Tension regulation during lengthening and shortening actions of the human soleus muscle. European Journal of Applied Physiology and Occupational Physiology, 2000, 81, 0375.	1.2	68
24	Significance of peripheral afferent input to the Î±-motoneurone pool for enhancement of tremor during an isometric fatiguing contraction. European Journal of Applied Physiology, 2000, 82, 129-136.	2.5	63
25	A Direct Comparison of Biplanar Videoradiography and Optical Motion Capture for Foot and Ankle Kinematics. Frontiers in Bioengineering and Biotechnology, 2019, 7, 199.	4.1	62
26	The role of human ankle plantar flexor muscle-tendon interaction & architecture in maximal vertical jumping examinedin vivo. Journal of Experimental Biology, 2015, 219, 528-34.	1.7	59
27	Motor cortex excitability does not increase during sustained cycling exercise to volitional exhaustion. Journal of Applied Physiology, 2012, 113, 401-409.	2.5	57
28	The energetic behaviour of the human foot across a range of running speeds. Scientific Reports, 2018, 8, 10576.	3.3	57
29	Variations in the soleus H-reflex as a function of activation during controlled lengthening and shortening actions. Brain Research, 2002, 952, 301-307.	2.2	56
30	Shoes alter the spring-like function of the human foot during running. Journal of the Royal Society Interface, 2016, 13, 20160174.	3.4	55
31	Corticospinal Responses to Sustained Locomotor Exercises: Moving Beyond Single-Joint Studies of Central Fatigue. Sports Medicine, 2013, 43, 437-449.	6.5	54
32	Corticospinal contributions to lower limb muscle activity during cycling in humans. Journal of Neurophysiology, 2012, 107, 306-314.	1.8	53
33	Electromyographic responses of the human triceps surae and force tremor during sustained subâ€maximal isometric plantar flexion. Acta Physiologica Scandinavica, 1994, 152, 73-82.	2.2	50
34	The role of the abdominal musculature in the elevation of the intra-abdominal pressure during specified tasks. Ergonomics, 1989, 32, 1237-1246.	2.1	49
35	Control of the triceps surae during the postural sway of quiet standing. Acta Physiologica, 2007, 191, 229-236.	3.8	49
36	Perturbed upper limb movements cause short-latency postural responses in trunk muscles. Experimental Brain Research, 2001, 138, 243-250.	1.5	48

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37	The mechanical function of the tibialis posterior muscle and its tendon during locomotion. Journal of Biomechanics, 2016, 49, 3238-3243.	2.1	48
38	Cerebellar transcranial direct current stimulation improves adaptive postural control. Clinical Neurophysiology, 2018, 129, 33-41.	1.5	48
39	Intrinsic foot muscles contribute to elastic energy storage and return in the human foot. Journal of Applied Physiology, 2019, 126, 231-238.	2.5	46
40	Cortical and Spinal Excitability during and after Lengthening Contractions of the Human Plantar Flexor Muscles Performed with Maximal Voluntary Effort. PLoS ONE, 2012, 7, e49907.	2.5	46
41	Effects of running on human Achilles tendon length-tension properties in the free and gastrocnemius components. Journal of Experimental Biology, 2013, 216, 4388-94.	1.7	45
42	Corticospinal-evoked responses in lower limb muscles during voluntary contractions at varying strengths. Journal of Applied Physiology, 2008, 105, 1527-1532.	2.5	43
43	The Influence of Foot-Strike Technique on the Neuromechanical Function of the Foot. Medicine and Science in Sports and Exercise, 2018, 50, 98-108.	0.4	43
44	Deceleration affects anticipatory and reactive components of triggered postural responses. Experimental Brain Research, 2005, 167, 433-445.	1.5	42
45	Sway-dependent modulation of the triceps surae H-reflex during standing. Journal of Applied Physiology, 2008, 104, 1359-1365.	2.5	42
46	Muscle spindles in human tibialis anterior encode muscle fascicle length changes. Journal of Neurophysiology, 2017, 117, 1489-1498.	1.8	42
47	Upper body movement during walking in children with lumboâ€“sacral myelomeningocele. Gait and Posture, 2002, 15, 120-129.	1.4	40
48	Reciprocal activation of gastrocnemius and soleus motor units is associated with fascicle length change during knee flexion. Physiological Reports, 2014, 2, e12044.	1.7	40
49	The effect of different reference transducer positions on intra-abdominal pressure measurement: aÂmulticenter analysis. Intensive Care Medicine, 2008, 34, 1299-1303.	8.2	39
50	In vivo fascicle length measurements via B-mode ultrasound imaging with single vs dual transducer arrangements. Journal of Biomechanics, 2017, 64, 240-244.	2.1	39
51	Muscle-tendon length and force affect human tibialis anterior central aponeurosis stiffness in vivo. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E3097-E3105.	7.1	39
52	The influence of natural body sway on neuromuscular responses to an unpredictable surface translation. Experimental Brain Research, 2006, 174, 19-28.	1.5	38
53	Trunk muscle activation in a person with clinically complete thoracic spinal cord injury. Journal of Rehabilitation Medicine, 2009, 41, 390-392.	1.1	37
54	Increases in corticospinal responsiveness during a sustained submaximal plantar flexion. Journal of Applied Physiology, 2009, 107, 112-120.	2.5	37

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55	Age-related changes in postural responses revealed by support-surface translations with a long accelerationâ€“deceleration interval. Clinical Neurophysiology, 2010, 121, 109-117.	1.5	37
56	Neuromechanical properties of the triceps surae in young and older adults. Experimental Gerontology, 2013, 48, 1147-1155.	2.8	37
57	Recurrent inhibition of soleus Î±-motoneurons during a sustained submaximal plantar flexion. Electroencephalography and Clinical Neurophysiology - Electromyography and Motor Control, 1996, 101, 334-338.	1.4	36
58	Differential activity of regions of the psoas major and quadratus lumborum during submaximal isometric trunk efforts. Journal of Orthopaedic Research, 2012, 30, 311-318.	2.3	36
59	Changes in Regional Activity of the Psoas Major and Quadratus Lumborum With Voluntary Trunk and Hip Tasks and Different Spinal Curvatures in Sitting. Journal of Orthopaedic and Sports Physical Therapy, 2013, 43, 74-82.	3.5	34
60	Sustained Cycling Exercise Increases Intracortical Inhibition. Medicine and Science in Sports and Exercise, 2013, 45, 654-662.	0.4	34
61	Shortâ€interval intracortical inhibition in knee extensors during locomotor cycling. Acta Physiologica, 2013, 207, 194-201.	3.8	33
62	Tibialis anterior muscle fascicle dynamics adequately represent postural sway during standing balance. Journal of Applied Physiology, 2013, 115, 1742-1750.	2.5	33
63	Interaction Between Voluntary and Postural Motor Commands During Perturbed Lifting. Spine, 1999, 24, 545-552.	2.0	32
64	Ultrasound reveals negligible cocontraction during isometric plantar flexion and dorsiflexion despite the presence of antagonist electromyographic activity. Journal of Applied Physiology, 2015, 118, 1193-1199.	2.5	31
65	Plantar- and dorsiflexor strength in prepubertal girls with juvenile idiopathic arthritis1,2No commercial party having a direct financial interest in the results of the research supporting this article has or will confer a benefit upon the author(s) or upon any organization with which the author(s) is/are associated.2See commentary p 1382.. Archives of Physical Medicine and Rehabilitation, 2004, 85, 1224-1230.	0.9	30
66	Effects of series elastic compliance on muscle force summation and the rate of force rise. Journal of Experimental Biology, 2016, 219, 3261-3270.	1.7	30
67	Gait in children with juvenile chronic arthritis. Scandinavian Journal of Rheumatology, 2002, 31, 317-323.	1.1	29
68	Muscle fascicle strains in human gastrocnemius during backward downhill walking. Journal of Applied Physiology, 2014, 116, 1455-1462.	2.5	29
69	Effects of muscle activation on shear between human soleus and gastrocnemius muscles. Scandinavian Journal of Medicine and Science in Sports, 2017, 27, 26-34.	2.9	29
70	Increase in Jumping Height Associated with Maximal Effort Vertical Depth Jumps. Research Quarterly for Exercise and Sport, 1987, 58, 11-15.	1.4	27
71	Anticipatory postural activity of the deep trunk muscles differs between anatomical regions based on their mechanical advantage. Neuroscience, 2014, 261, 161-172.	2.3	27
72	Quantification of muscle co-contraction using supersonic shear wave imaging. Journal of Biomechanics, 2016, 49, 493-495.	2.1	26

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73	Fatigue after Physical Activity in Healthy and Balance-Impaired Elderly. Journal of Aging and Physical Activity, 2009, 17, 89-105.	1.0	25
74	A comparison of two Hill-type skeletal muscle models on the construction of medial gastrocnemius length-tension curves in humans in vivo. Journal of Applied Physiology, 2012, 113, 90-96.	2.5	24
75	The Effect of Knee Flexion Contracture Following Total Knee Arthroplasty on the Energy Cost of Walking. Journal of Arthroplasty, 2014, 29, 85-89.	3.1	24
76	Deconstructing the power resistance relationship for squats: A jointâ€level analysis. Scandinavian Journal of Medicine and Science in Sports, 2016, 26, 774-781.	2.9	24
77	Vestibulospinal influences on lower limb motoneurons. Canadian Journal of Physiology and Pharmacology, 2004, 82, 675-681.	1.4	23
78	Differential control of abdominal muscles during multi-directional support-surface translations in man. Experimental Brain Research, 2008, 188, 445-455.	1.5	22
79	Intra-abdominal pressure response to multidirectional support-surface translation. Gait and Posture, 2004, 20, 163-170.	1.4	21
80	The immediate effect of physical activity on standing balance in healthy and balanceâ€impaired older people. Australasian Journal on Ageing, 2009, 28, 93-96.	0.9	21
81	Discharge properties of abductor hallucis before, during, and after an isometric fatigue task. Journal of Neurophysiology, 2013, 110, 891-898.	1.8	21
82	Ia-afferent input to motoneurons during shortening and lengthening muscle contractions in humans. Journal of Applied Physiology, 2007, 102, 144-148.	2.5	20
83	Conditioning Ia-afferent stimulation reduces the soleus Hoffman reflex in humans when muscle spindles are assumed to be inactive. Neuroscience Letters, 2004, 366, 250-253.	2.1	18
84	The efficacy of SMART Arm training early after stroke for stroke survivors withsevere upper limb disability: a protocol for a randomised controlled trial. BMC Neurology, 2013, 13, 71.	1.8	18
85	Subtalar Joint Pronation and Energy Absorption Requirements During Walking are Related to Tibialis Posterior Tendinous Tissue Strain. Scientific Reports, 2017, 7, 17958.	3.3	18
86	The repeated bout effect can occur without mechanical and neuromuscular changes after a bout of eccentric exercise. Scandinavian Journal of Medicine and Science in Sports, 2018, 28, 2123-2134.	2.9	18
87	The Effect of Cadence on the Mechanics and Energetics of Constant Power Cycling. Medicine and Science in Sports and Exercise, 2019, 51, 941-950.	0.4	17
88	Recruitment of single human low-threshold motor units with increasing loads at different muscle lengths. Journal of Electromyography and Kinesiology, 2004, 14, 369-377.	1.7	16
89	Recruitment order of the abdominal muscles varies with postural task. Scandinavian Journal of Medicine and Science in Sports, 2013, 23, 349-354.	2.9	16
90	Recruitment of Discrete Regions of the Psoas Major and Quadratus Lumborum Muscles Is Changed in Specific Sitting Postures in Individuals With Recurrent Low Back Pain. Journal of Orthopaedic and Sports Physical Therapy, 2013, 43, 833-840.	3.5	15

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91	Commentaries on Viewpoint: On the hysteresis in the human Achilles tendon. Journal of Applied Physiology, 2013, 114, 518-520.	2.5	15
92	Additional in-series compliance reduces muscle force summation and alters the time course of force relaxation during fixed-end contractions. Journal of Experimental Biology, 2016, 219, 3587-3596.	1.7	15
93	Galvanic vestibular stimulation alters the onset of motor unit discharge. Muscle and Nerve, 2004, 30, 188-194.	2.2	14
94	Temperature affects maximum H-reflex amplitude but not homosynaptic postactivation depression. Physiological Reports, 2013, 1, e00019.	1.7	14
95	Protection from Muscle Damage in the Absence of Changes in Muscle Mechanical Behavior. Medicine and Science in Sports and Exercise, 2016, 48, 1495-1505.	0.4	14
96	The effect of cadence on the muscleâ€tendon mechanics of the gastrocnemius muscle during walking. Scandinavian Journal of Medicine and Science in Sports, 2017, 27, 289-298.	2.9	14
97	Tibialis anterior tendinous tissue plays a key role in energy absorption during human walking. Journal of Experimental Biology, 2019, 222, .	1.7	14
98	Changes in direction-specific activity of psoas major and quadratus lumborum in people with recurring back pain differ between muscle regions and patient groups. Journal of Electromyography and Kinesiology, 2013, 23, 734-740.	1.7	13
99	Doublet potentiation in the triceps surae is limited by series compliance and dynamic fascicle behavior. Journal of Applied Physiology, 2015, 119, 807-816.	2.5	13
100	The Immediate Effect of Foot Orthoses on Subtalar Joint Mechanics and Energetics. Medicine and Science in Sports and Exercise, 2018, 50, 1449-1456.	0.4	13
101	The effect of muscle-tendon unit vs. fascicle analyses on vastus lateralis force-generating capacity during constant power output cycling with variable cadence. Journal of Applied Physiology, 2018, 124, 993-1002.	2.5	13
102	Dynamic postural stability is not impaired by moderate-intensity physical activity in healthy or balance-impaired older people. Human Movement Science, 2010, 29, 1011-1022.	1.4	12
103	Bilateral tremor responses to unilateral loading and fatiguing muscle contractions. Journal of Neurophysiology, 2013, 110, 431-440.	1.8	12
104	The forceâ€“velocity relationship of the human soleus muscle during submaximal voluntary lengthening actions. European Journal of Applied Physiology, 2003, 90, 191-198.	2.5	11
105	Evidence for reduced efficacy of the Ia-pathway during shortening plantar flexions with increasing effort. Experimental Brain Research, 2008, 185, 699-707.	1.5	11
106	Foot structure is significantly associated to subtalar joint kinetics and mechanical energetics. Gait and Posture, 2017, 58, 159-165.	1.4	11
107	Reliability and quality of statistical shape and deformation models constructed from optical foot scans. Journal of Biomechanics, 2021, 115, 110137.	2.1	11
108	The Mechanics of Seated and Nonseated Cycling at Very-High-Power Output: A Joint-Level Analysis. Medicine and Science in Sports and Exercise, 2020, 52, 1585-1594.	0.4	8

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109	Fine-wire recordings of flexor hallucis brevis motor units up to maximal voluntary contraction reveal a flexible, nonrigid mechanism for force control. Journal of Neurophysiology, 2020, 123, 1766-1774.	1.8	8
110	Neuromechanical adaptations of foot function to changes in surface stiffness during hopping. Journal of Applied Physiology, 2021, 130, 1196-1204.	2.5	8
111	Modulation of the soleus H-reflex during knee rotations is not consistent with muscle fascicle length changes. European Journal of Applied Physiology, 2012, 112, 3259-3266.	2.5	7
112	The effect of paired associative stimulation on fatigue resistance. Neuroscience Research, 2015, 95, 59-65.	1.9	7
113	Modelling the complexity of the foot and ankle during human locomotion: the development and validation of a multi-segment foot model using biplanar videoradiography. Computer Methods in Biomechanics and Biomedical Engineering, 2022, 25, 554-565.	1.6	7
114	Changes in stepping response to lateral perturbations immediately following a single bout of physical activity. Physiotherapy Research International, 2011, 16, 141-150.	1.5	6
115	Riders Use Their Body Mass to Amplify Crank Power during Nonseated Ergometer Cycling. Medicine and Science in Sports and Exercise, 2020, 52, 2599-2607.	0.4	5
116	Regional changes in muscle activity do not underlie the repeated bout effect in the human gastrocnemius muscle. Scandinavian Journal of Medicine and Science in Sports, 2021, 31, 799-812.	2.9	5
117	A systematic muscle model covering regions from the fast ramp stretches in the muscle fibres to the relatively slow stretches in the human triceps surae. Computer Methods in Biomechanics and Biomedical Engineering, 2015, 18, 97-106.	1.6	4
118	Trunk muscle activity during different types of low weighted squat exercises in normal and forefoot standing conditions. Journal of Sports Sciences, 2020, 38, 2774-2781.	2.0	4
119	Effects of inspiratory muscle strength and inspiratory resistance on neck inspiratory muscle activation during controlled inspirations. Experimental Physiology, 2019, 104, 556-567.	2.0	4
120	Cyclic eccentric stretching induces more damage and improved subsequent protection than stretched isometric contractions in the lower limb. European Journal of Applied Physiology, 2021, 121, 3349-3360.	2.5	3
121	BIOMECHANICAL EFFECTS OF OVERSPEED TREADMILL TRAINING ON SPRINT RUNNING. Medicine and Science in Sports and Exercise, 1982, 14, 144.	0.4	2
122	Increasing step width reduces the requirements for subtalar joint moments and powers. Journal of Biomechanics, 2019, 92, 29-34.	2.1	2
123	Lumbar spine and psoas muscle geometry revisited with magnetic resonance imaging. Journal of Biomechanics, 1989, 22, 1089.	2.1	1
124	Intra-abdominal pressure and force during isokinetic lifting and lowering. Journal of Biomechanics, 1994, 27, 711.	2.1	1
125	Corticospinal excitability remains unchanged in the presence of residual force enhancement and does not contribute to increased torque production. PeerJ, 2022, 10, e12729.	2.0	1
126	Intra-abdominal pressure and patterns of abdominal muscle activation in isometric trunk flexion and extension. Journal of Biomechanics, 1989, 22, 998.	2.1	0

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127	TENSION REGULATION OF LENGTHENING MUSCLE ACTIONS. Medicine and Science in Sports and Exercise, 2001, 33, S40.	0.4	0