

Andrew G Cresswell

List of Publications by Year in descending order

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127
papers

6,062
citations

70961

41
h-index

82410

72
g-index

137
all docs

137
docs citations

137
times ranked

4052
citing authors

#	ARTICLE	IF	CITATIONS
1	Observations on intra-abdominal pressure and patterns of abdominal intramuscular activity in man. <i>Acta Physiologica Scandinavica</i> , 1992, 144, 409-418.	2.3	340
2	Muscle activation during maximal voluntary eccentric and concentric knee extension. <i>European Journal of Applied Physiology and Occupational Physiology</i> , 1991, 62, 104-108.	1.2	272
3	Preparatory trunk motion accompanies rapid upper limb movement. <i>Experimental Brain Research</i> , 1999, 124, 69-79.	0.7	269
4	Proprioceptive Neuromuscular Facilitation Stretching. <i>Sports Medicine</i> , 2006, 36, 929-939.	3.1	233
5	Intrinsic foot muscles have the capacity to control deformation of the longitudinal arch. <i>Journal of the Royal Society Interface</i> , 2014, 11, 20131188.	1.5	226
6	Recruitment of the plantar intrinsic foot muscles with increasing postural demand. <i>Clinical Biomechanics</i> , 2012, 27, 46-51.	0.5	199
7	Intervertebral Stiffness of the Spine Is Increased by Evoked Contraction of Transversus Abdominis and the Diaphragm: In Vivo Porcine Studies. <i>Spine</i> , 2003, 28, 2594-2601.	1.0	195
8	Active regulation of longitudinal arch compression and recoil during walking and running. <i>Journal of the Royal Society Interface</i> , 2015, 12, 20141076.	1.5	156
9	In vivo measurement of the effect of intra-abdominal pressure on the human spine. <i>Journal of Biomechanics</i> , 2001, 34, 347-353.	0.9	147
10	The functional importance of human foot muscles for bipedal locomotion. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 1645-1650.	3.3	139
11	Three dimensional preparatory trunk motion precedes asymmetrical upper limb movement. <i>Gait and Posture</i> , 2000, 11, 92-101.	0.6	120
12	The effect of muscle length on motor-unit recruitment during isometric plantar flexion in humans. <i>Experimental Brain Research</i> , 2001, 137, 58-64.	0.7	115
13	Central and peripheral contributions to fatigue in relation to level of activation during repeated maximal voluntary isometric plantar flexions. <i>Journal of Applied Physiology</i> , 2004, 96, 218-225.	1.2	109
14	Changes in intra-abdominal pressure, trunk muscle activation and force during isokinetic lifting and lowering. <i>European Journal of Applied Physiology and Occupational Physiology</i> , 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. <i>Journal of Physiology</i> , 2009, 587, 4737-4748.	1.3	105
16	An enhanced level of motor cortical excitability during the control of human standing. <i>Acta Physiologica</i> , 2009, 195, 385-395.	1.8	95
17	Reactive stepping behaviour in response to forward loss of balance predicts future falls in community-dwelling older adults. <i>Age and Ageing</i> , 2015, 44, 109-115.	0.7	89
18	H-reflex modulation during passive lengthening and shortening of the human triceps surae. <i>Journal of Physiology</i> , 2001, 534, 913-923.	1.3	83

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19	Residual force enhancement after lengthening is present during submaximal plantar flexion and dorsiflexion actions in humans. <i>Journal of Applied Physiology</i> , 2007, 102, 18-25.	1.2	75
20	Central fatigue during a long-lasting submaximal contraction of the triceps surae. <i>Experimental Brain Research</i> , 1996, 108, 305-14.	0.7	74
21	Responses of intra-abdominal pressure and abdominal muscle activity during dynamic trunk loading in man. <i>European Journal of Applied Physiology and Occupational Physiology</i> , 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. <i>PeerJ</i> , 2016, 4, e2260.	0.9	71
23	Tension regulation during lengthening and shortening actions of the human soleus muscle. <i>European Journal of Applied Physiology and Occupational Physiology</i> , 2000, 81, 0375.	1.2	68
24	Significance of peripheral afferent input to the $\hat{I}\pm$ -motoneurone pool for enhancement of tremor during an isometric fatiguing contraction. <i>European Journal of Applied Physiology</i> , 2000, 82, 129-136.	1.2	63
25	A Direct Comparison of Biplanar Videoradiography and Optical Motion Capture for Foot and Ankle Kinematics. <i>Frontiers in Bioengineering and Biotechnology</i> , 2019, 7, 199.	2.0	62
26	The role of human ankle plantar flexor muscle-tendon interaction & architecture in maximal vertical jumping examined <i>in vivo</i> . <i>Journal of Experimental Biology</i> , 2015, 219, 528-34.	0.8	59
27	Motor cortex excitability does not increase during sustained cycling exercise to volitional exhaustion. <i>Journal of Applied Physiology</i> , 2012, 113, 401-409.	1.2	57
28	The energetic behaviour of the human foot across a range of running speeds. <i>Scientific Reports</i> , 2018, 8, 10576.	1.6	57
29	Variations in the soleus H-reflex as a function of activation during controlled lengthening and shortening actions. <i>Brain Research</i> , 2002, 952, 301-307.	1.1	56
30	Shoes alter the spring-like function of the human foot during running. <i>Journal of the Royal Society Interface</i> , 2016, 13, 20160174.	1.5	55
31	Corticospinal Responses to Sustained Locomotor Exercises: Moving Beyond Single-Joint Studies of Central Fatigue. <i>Sports Medicine</i> , 2013, 43, 437-449.	3.1	54
32	Corticospinal contributions to lower limb muscle activity during cycling in humans. <i>Journal of Neurophysiology</i> , 2012, 107, 306-314.	0.9	53
33	Electromyographic responses of the human triceps surae and force tremor during sustained sub-maximal isometric plantar flexion. <i>Acta Physiologica Scandinavica</i> , 1994, 152, 73-82.	2.3	50
34	The role of the abdominal musculature in the elevation of the intra-abdominal pressure during specified tasks. <i>Ergonomics</i> , 1989, 32, 1237-1246.	1.1	49
35	Control of the triceps surae during the postural sway of quiet standing. <i>Acta Physiologica</i> , 2007, 191, 229-236.	1.8	49
36	Perturbed upper limb movements cause short-latency postural responses in trunk muscles. <i>Experimental Brain Research</i> , 2001, 138, 243-250.	0.7	48

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37	The mechanical function of the tibialis posterior muscle and its tendon during locomotion. <i>Journal of Biomechanics</i> , 2016, 49, 3238-3243.	0.9	48
38	Cerebellar transcranial direct current stimulation improves adaptive postural control. <i>Clinical Neurophysiology</i> , 2018, 129, 33-41.	0.7	48
39	Intrinsic foot muscles contribute to elastic energy storage and return in the human foot. <i>Journal of Applied Physiology</i> , 2019, 126, 231-238.	1.2	46
40	Cortical and Spinal Excitability during and after Lengthening Contractions of the Human Plantar Flexor Muscles Performed with Maximal Voluntary Effort. <i>PLoS ONE</i> , 2012, 7, e49907.	1.1	46
41	Effects of running on human Achilles tendon length-tension properties in the free and gastrocnemius components. <i>Journal of Experimental Biology</i> , 2013, 216, 4388-94.	0.8	45
42	Corticospinal-evoked responses in lower limb muscles during voluntary contractions at varying strengths. <i>Journal of Applied Physiology</i> , 2008, 105, 1527-1532.	1.2	43
43	The Influence of Foot-Strike Technique on the Neuromechanical Function of the Foot. <i>Medicine and Science in Sports and Exercise</i> , 2018, 50, 98-108.	0.2	43
44	Deceleration affects anticipatory and reactive components of triggered postural responses. <i>Experimental Brain Research</i> , 2005, 167, 433-445.	0.7	42
45	Sway-dependent modulation of the triceps surae H-reflex during standing. <i>Journal of Applied Physiology</i> , 2008, 104, 1359-1365.	1.2	42
46	Muscle spindles in human tibialis anterior encode muscle fascicle length changes. <i>Journal of Neurophysiology</i> , 2017, 117, 1489-1498.	0.9	42
47	Upper body movement during walking in children with lumboâ€sacral myelomeningocele. <i>Gait and Posture</i> , 2002, 15, 120-129.	0.6	40
48	Reciprocal activation of gastrocnemius and soleus motor units is associated with fascicle length change during knee flexion. <i>Physiological Reports</i> , 2014, 2, e12044.	0.7	40
49	The effect of different reference transducer positions on intra-abdominal pressure measurement: a multicenter analysis. <i>Intensive Care Medicine</i> , 2008, 34, 1299-1303.	3.9	39
50	In vivo fascicle length measurements via B-mode ultrasound imaging with single vs dual transducer arrangements. <i>Journal of Biomechanics</i> , 2017, 64, 240-244.	0.9	39
51	Muscle-tendon length and force affect human tibialis anterior central aponeurosis stiffness in vivo. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E3097-E3105.	3.3	39
52	The influence of natural body sway on neuromuscular responses to an unpredictable surface translation. <i>Experimental Brain Research</i> , 2006, 174, 19-28.	0.7	38
53	Trunk muscle activation in a person with clinically complete thoracic spinal cord injury. <i>Journal of Rehabilitation Medicine</i> , 2009, 41, 390-392.	0.8	37
54	Increases in corticospinal responsiveness during a sustained submaximal plantar flexion. <i>Journal of Applied Physiology</i> , 2009, 107, 112-120.	1.2	37

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55	Age-related changes in postural responses revealed by support-surface translations with a long accelerationâ€“deceleration interval. <i>Clinical Neurophysiology</i> , 2010, 121, 109-117.	0.7	37
56	Neuromechanical properties of the triceps surae in young and older adults. <i>Experimental Gerontology</i> , 2013, 48, 1147-1155.	1.2	37
57	Recurrent inhibition of soleus $\hat{\pm}$ -motoneurons during a sustained submaximal plantar flexion. <i>Electroencephalography and Clinical Neurophysiology - Electromyography and Motor Control</i> , 1996, 101, 334-338.	1.4	36
58	Differential activity of regions of the psoas major and quadratus lumborum during submaximal isometric trunk efforts. <i>Journal of Orthopaedic Research</i> , 2012, 30, 311-318.	1.2	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. <i>Journal of Orthopaedic and Sports Physical Therapy</i> , 2013, 43, 74-82.	1.7	34
60	Sustained Cycling Exercise Increases Intracortical Inhibition. <i>Medicine and Science in Sports and Exercise</i> , 2013, 45, 654-662.	0.2	34
61	Shortâ€“interval intracortical inhibition in knee extensors during locomotor cycling. <i>Acta Physiologica</i> , 2013, 207, 194-201.	1.8	33
62	Tibialis anterior muscle fascicle dynamics adequately represent postural sway during standing balance. <i>Journal of Applied Physiology</i> , 2013, 115, 1742-1750.	1.2	33
63	Interaction Between Voluntary and Postural Motor Commands During Perturbed Lifting. <i>Spine</i> , 1999, 24, 545-552.	1.0	32
64	Ultrasound reveals negligible cocontraction during isometric plantar flexion and dorsiflexion despite the presence of antagonist electromyographic activity. <i>Journal of Applied Physiology</i> , 2015, 118, 1193-1199.	1.2	31
65	Plantar- and dorsiflexor strength in prepubertal girls with juvenile idiopathic arthritis ^{1,2} No 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. ² See commentary p 1382.. <i>Archives of Physical Medicine and Rehabilitation</i> , 2004, 85, 1224-1230.	0.5	30
66	Effects of series elastic compliance on muscle force summation and the rate of force rise. <i>Journal of Experimental Biology</i> , 2016, 219, 3261-3270.	0.8	30
67	Gait in children with juvenile chronic arthritis. <i>Scandinavian Journal of Rheumatology</i> , 2002, 31, 317-323.	0.6	29
68	Muscle fascicle strains in human gastrocnemius during backward downhill walking. <i>Journal of Applied Physiology</i> , 2014, 116, 1455-1462.	1.2	29
69	Effects of muscle activation on shear between human soleus and gastrocnemius muscles. <i>Scandinavian Journal of Medicine and Science in Sports</i> , 2017, 27, 26-34.	1.3	29
70	Increase in Jumping Height Associated with Maximal Effort Vertical Depth Jumps. <i>Research Quarterly for Exercise and Sport</i> , 1987, 58, 11-15.	0.8	27
71	Anticipatory postural activity of the deep trunk muscles differs between anatomical regions based on their mechanical advantage. <i>Neuroscience</i> , 2014, 261, 161-172.	1.1	27
72	Quantification of muscle co-contraction using supersonic shear wave imaging. <i>Journal of Biomechanics</i> , 2016, 49, 493-495.	0.9	26

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73	Fatigue after Physical Activity in Healthy and Balance-Impaired Elderly. <i>Journal of Aging and Physical Activity</i> , 2009, 17, 89-105.	0.5	25
74	A comparison of two Hill-type skeletal muscle models on the construction of medial gastrocnemius length-tension curves in humans in vivo. <i>Journal of Applied Physiology</i> , 2012, 113, 90-96.	1.2	24
75	The Effect of Knee Flexion Contracture Following Total Knee Arthroplasty on the Energy Cost of Walking. <i>Journal of Arthroplasty</i> , 2014, 29, 85-89.	1.5	24
76	Deconstructing the power resistance relationship for squats: A joint-level analysis. <i>Scandinavian Journal of Medicine and Science in Sports</i> , 2016, 26, 774-781.	1.3	24
77	Vestibulospinal influences on lower limb motoneurons. <i>Canadian Journal of Physiology and Pharmacology</i> , 2004, 82, 675-681.	0.7	23
78	Differential control of abdominal muscles during multi-directional support-surface translations in man. <i>Experimental Brain Research</i> , 2008, 188, 445-455.	0.7	22
79	Intra-abdominal pressure response to multidirectional support-surface translation. <i>Gait and Posture</i> , 2004, 20, 163-170.	0.6	21
80	The immediate effect of physical activity on standing balance in healthy and balance-impaired older people. <i>Australasian Journal on Ageing</i> , 2009, 28, 93-96.	0.4	21
81	Discharge properties of abductor hallucis before, during, and after an isometric fatigue task. <i>Journal of Neurophysiology</i> , 2013, 110, 891-898.	0.9	21
82	Ia-afferent input to motoneurons during shortening and lengthening muscle contractions in humans. <i>Journal of Applied Physiology</i> , 2007, 102, 144-148.	1.2	20
83	Conditioning Ia-afferent stimulation reduces the soleus Hoffman reflex in humans when muscle spindles are assumed to be inactive. <i>Neuroscience Letters</i> , 2004, 366, 250-253.	1.0	18
84	The efficacy of SMART Arm training early after stroke for stroke survivors with severe upper limb disability: a protocol for a randomised controlled trial. <i>BMC Neurology</i> , 2013, 13, 71.	0.8	18
85	Subtalar Joint Pronation and Energy Absorption Requirements During Walking are Related to Tibialis Posterior Tendinous Tissue Strain. <i>Scientific Reports</i> , 2017, 7, 17958.	1.6	18
86	The repeated bout effect can occur without mechanical and neuromuscular changes after a bout of eccentric exercise. <i>Scandinavian Journal of Medicine and Science in Sports</i> , 2018, 28, 2123-2134.	1.3	18
87	The Effect of Cadence on the Mechanics and Energetics of Constant Power Cycling. <i>Medicine and Science in Sports and Exercise</i> , 2019, 51, 941-950.	0.2	17
88	Recruitment of single human low-threshold motor units with increasing loads at different muscle lengths. <i>Journal of Electromyography and Kinesiology</i> , 2004, 14, 369-377.	0.7	16
89	Recruitment order of the abdominal muscles varies with postural task. <i>Scandinavian Journal of Medicine and Science in Sports</i> , 2013, 23, 349-354.	1.3	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. <i>Journal of Orthopaedic and Sports Physical Therapy</i> , 2013, 43, 833-840.	1.7	15

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91	Commentaries on Viewpoint: On the hysteresis in the human Achilles tendon. <i>Journal of Applied Physiology</i> , 2013, 114, 518-520.	1.2	15
92	Additional in-series compliance reduces muscle force summation and alters the time course of force relaxation during fixed-end contractions. <i>Journal of Experimental Biology</i> , 2016, 219, 3587-3596.	0.8	15
93	Galvanic vestibular stimulation alters the onset of motor unit discharge. <i>Muscle and Nerve</i> , 2004, 30, 188-194.	1.0	14
94	Temperature affects maximum H-reflex amplitude but not homosynaptic postactivation depression. <i>Physiological Reports</i> , 2013, 1, e00019.	0.7	14
95	Protection from Muscle Damage in the Absence of Changes in Muscle Mechanical Behavior. <i>Medicine and Science in Sports and Exercise</i> , 2016, 48, 1495-1505.	0.2	14
96	The effect of cadence on the muscle-tendon mechanics of the gastrocnemius muscle during walking. <i>Scandinavian Journal of Medicine and Science in Sports</i> , 2017, 27, 289-298.	1.3	14
97	Tibialis anterior tendinous tissue plays a key role in energy absorption during human walking. <i>Journal of Experimental Biology</i> , 2019, 222, .	0.8	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. <i>Journal of Electromyography and Kinesiology</i> , 2013, 23, 734-740.	0.7	13
99	Doublet potentiation in the triceps surae is limited by series compliance and dynamic fascicle behavior. <i>Journal of Applied Physiology</i> , 2015, 119, 807-816.	1.2	13
100	The Immediate Effect of Foot Orthoses on Subtalar Joint Mechanics and Energetics. <i>Medicine and Science in Sports and Exercise</i> , 2018, 50, 1449-1456.	0.2	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. <i>Journal of Applied Physiology</i> , 2018, 124, 993-1002.	1.2	13
102	Dynamic postural stability is not impaired by moderate-intensity physical activity in healthy or balance-impaired older people. <i>Human Movement Science</i> , 2010, 29, 1011-1022.	0.6	12
103	Bilateral tremor responses to unilateral loading and fatiguing muscle contractions. <i>Journal of Neurophysiology</i> , 2013, 110, 431-440.	0.9	12
104	The force-velocity relationship of the human soleus muscle during submaximal voluntary lengthening actions. <i>European Journal of Applied Physiology</i> , 2003, 90, 191-198.	1.2	11
105	Evidence for reduced efficacy of the Ia-pathway during shortening plantar flexions with increasing effort. <i>Experimental Brain Research</i> , 2008, 185, 699-707.	0.7	11
106	Foot structure is significantly associated to subtalar joint kinetics and mechanical energetics. <i>Gait and Posture</i> , 2017, 58, 159-165.	0.6	11
107	Reliability and quality of statistical shape and deformation models constructed from optical foot scans. <i>Journal of Biomechanics</i> , 2021, 115, 110137.	0.9	11
108	The Mechanics of Seated and Nonseated Cycling at Very-High-Power Output: A Joint-Level Analysis. <i>Medicine and Science in Sports and Exercise</i> , 2020, 52, 1585-1594.	0.2	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. <i>Journal of Neurophysiology</i> , 2020, 123, 1766-1774.	0.9	8
110	Neuromechanical adaptations of foot function to changes in surface stiffness during hopping. <i>Journal of Applied Physiology</i> , 2021, 130, 1196-1204.	1.2	8
111	Modulation of the soleus H-reflex during knee rotations is not consistent with muscle fascicle length changes. <i>European Journal of Applied Physiology</i> , 2012, 112, 3259-3266.	1.2	7
112	The effect of paired associative stimulation on fatigue resistance. <i>Neuroscience Research</i> , 2015, 95, 59-65.	1.0	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. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2022, 25, 554-565.	0.9	7
114	Changes in stepping response to lateral perturbations immediately following a single bout of physical activity. <i>Physiotherapy Research International</i> , 2011, 16, 141-150.	0.7	6
115	Riders Use Their Body Mass to Amplify Crank Power during Nonseated Ergometer Cycling. <i>Medicine and Science in Sports and Exercise</i> , 2020, 52, 2599-2607.	0.2	5
116	Regional changes in muscle activity do not underlie the repeated bout effect in the human gastrocnemius muscle. <i>Scandinavian Journal of Medicine and Science in Sports</i> , 2021, 31, 799-812.	1.3	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. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2015, 18, 97-106.	0.9	4
118	Trunk muscle activity during different types of low weighted squat exercises in normal and forefoot standing conditions. <i>Journal of Sports Sciences</i> , 2020, 38, 2774-2781.	1.0	4
119	Effects of inspiratory muscle strength and inspiratory resistance on neck inspiratory muscle activation during controlled inspirations. <i>Experimental Physiology</i> , 2019, 104, 556-567.	0.9	4
120	Cyclic eccentric stretching induces more damage and improved subsequent protection than stretched isometric contractions in the lower limb. <i>European Journal of Applied Physiology</i> , 2021, 121, 3349-3360.	1.2	3
121	BIOMECHANICAL EFFECTS OF OVERSPEED TREADMILL TRAINING ON SPRINT RUNNING. <i>Medicine and Science in Sports and Exercise</i> , 1982, 14, 144.	0.2	2
122	Increasing step width reduces the requirements for subtalar joint moments and powers. <i>Journal of Biomechanics</i> , 2019, 92, 29-34.	0.9	2
123	Lumbar spine and psoas muscle geometry revisited with magnetic resonance imaging. <i>Journal of Biomechanics</i> , 1989, 22, 1089.	0.9	1
124	Intra-abdominal pressure and force during isokinetic lifting and lowering. <i>Journal of Biomechanics</i> , 1994, 27, 711.	0.9	1
125	Corticospinal excitability remains unchanged in the presence of residual force enhancement and does not contribute to increased torque production. <i>PeerJ</i> , 2022, 10, e12729.	0.9	1
126	Intra-abdominal pressure and patterns of abdominal muscle activation in isometric trunk flexion and extension. <i>Journal of Biomechanics</i> , 1989, 22, 998.	0.9	0

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127	TENSION REGULATION OF LENGTHENING MUSCLE ACTIONS. <i>Medicine and Science in Sports and Exercise</i> , 2001, 33, S40.	0.2	0