James M Wakeling

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

64	1,253	21	33
papers	citations	h-index	g-index
65	1,493 ext. citations	3	5.16
ext. papers		avg, IF	L-index

#	Paper	IF	Citations
64	Does the stimulus provoking a stepping reaction correlate with step characteristics and clinical measures of balance and mobility post-stroke?. <i>Clinical Biomechanics</i> , 2022 , 93, 105595	2.2	
63	Lower-limb muscle function is influenced by changing mechanical demands in cycling. <i>Journal of Experimental Biology</i> , 2021 , 224,	3	1
62	The Energy of Muscle Contraction. III. Kinetic Energy During Cyclic Contractions. <i>Frontiers in Physiology</i> , 2021 , 12, 628819	4.6	1
61	EMG Signals Can Reveal Information Sharing between Consecutive Pedal Cycles. <i>Medicine and Science in Sports and Exercise</i> , 2021 , 53, 2436-2444	1.2	1
60	Canoe slalom C1 stroke technique during international competitions. <i>Sports Biomechanics</i> , 2021 , 1-12	2.2	1
59	Task-dependent recruitment across ankle extensor muscles and between mechanical demands is driven by the metabolic cost of muscle contraction. <i>Journal of the Royal Society Interface</i> , 2021 , 18, 202	0 07 65	1
58	Mapping of electrodermal activity (EDA) during outdoor community-level mobility tasks in individuals with lower-limb amputation. <i>Journal of Rehabilitation and Assistive Technologies Engineering</i> , 2021 , 8, 20556683211006837	1.7	
57	Relationships Between Stepping-Reaction Movement Patterns and Clinical Measures of Balance, Motor Impairment, and Step Characteristics After Stroke. <i>Physical Therapy</i> , 2021 , 101,	3.3	1
56	The energy of muscle contraction. IV. Greater mass of larger muscles decreases contraction efficiency. <i>Journal of the Royal Society Interface</i> , 2021 , 18, 20210484	4.1	2
55	Development of a Feedback System to Control Power in Cycling. <i>Proceedings (mdpi)</i> , 2020 , 49, 22	0.3	
54	Keep calm and hang on: EMG activation in the forelimb musculature of three-toed sloths (). <i>Journal of Experimental Biology</i> , 2020 , 223,	3	9
53	During Cycling What Limits Maximum Mechanical Power Output at Cadences above 120 rpm?. <i>Medicine and Science in Sports and Exercise</i> , 2020 , 52, 214-224	1.2	4
52	The Energy of Muscle Contraction. II. Transverse Compression and Work. <i>Frontiers in Physiology</i> , 2020 , 11, 538522	4.6	5
51	Added mass in rat plantaris muscle causes a reduction in mechanical work. <i>Journal of Experimental Biology</i> , 2020 , 223,	3	4
50	The Energy of Muscle Contraction. I. Tissue Force and Deformation During Fixed-End Contractions. <i>Frontiers in Physiology</i> , 2020 , 11, 813	4.6	7
49	The Effect of Multidirectional Loading on Contractions of the M. Medial Gastrocnemius. <i>Frontiers in Physiology</i> , 2020 , 11, 601799	4.6	
48	Muscle-specific indices to characterise the functional behaviour of human lower-limb muscles during locomotion. <i>Journal of Biomechanics</i> , 2019 , 89, 134-138	2.9	16

(2016-2019)

47	Regional Vastus Medialis and Vastus Lateralis Activation in Females with Patellofemoral Pain. <i>Medicine and Science in Sports and Exercise</i> , 2019 , 51, 411-420	1.2	3
46	Passive and dynamic muscle architecture during transverse loading for gastrocnemius medialis in man. <i>Journal of Biomechanics</i> , 2019 , 86, 160-166	2.9	14
45	Impact of transversal calf muscle loading on plantarflexion. Journal of Biomechanics, 2019, 85, 37-42	2.9	7
44	Does a two-element muscle model offer advantages when estimating ankle plantar flexor forces during human cycling?. <i>Journal of Biomechanics</i> , 2018 , 68, 6-13	2.9	10
43	Size, History-Dependent, Activation and Three-Dimensional Effects on the Work and Power Produced During Cyclic Muscle Contractions. <i>Integrative and Comparative Biology</i> , 2018 , 58, 232-250	2.8	17
42	Impact of Multidirectional Transverse Calf Muscle Loading on Calf Muscle Force in Young Adults. <i>Frontiers in Physiology</i> , 2018 , 9, 1148	4.6	5
41	Metabolic cost underlies task-dependent variations in motor unit recruitment. <i>Journal of the Royal Society Interface</i> , 2018 , 15,	4.1	6
40	How Do the Mechanical Demands of Cycling Affect the Information Content of the EMG?. <i>Medicine and Science in Sports and Exercise</i> , 2018 , 50, 2518-2525	1.2	4
39	Identification of regional activation by factorization of high-density surface EMG signals: A comparison of Principal Component Analysis and Non-negative Matrix factorization. <i>Journal of Electromyography and Kinesiology</i> , 2018 , 41, 116-123	2.5	10
38	Geometric models to explore mechanisms of dynamic shape change in skeletal muscle. <i>Royal Society Open Science</i> , 2018 , 5, 172371	3.3	12
37	Transverse anisotropy in the deformation of the muscle during dynamic contractions. <i>Journal of Experimental Biology</i> , 2018 , 221,	3	9
36	A modelling approach for exploring muscle dynamics during cyclic contractions. <i>PLoS Computational Biology</i> , 2018 , 14, e1006123	5	10
35	Comparison of human gastrocnemius forces predicted by Hill-type muscle models and estimated from ultrasound images. <i>Journal of Experimental Biology</i> , 2017 , 220, 1643-1653	3	40
34	Carotid sinus hypersensitivity: block of the sternocleidomastoid muscle does not affect responses to carotid sinus massage in healthy young adults. <i>Physiological Reports</i> , 2017 , 5, e13448	2.6	2
33	Why are Antagonist Muscles Co-activated in My Simulation? A Musculoskeletal Model for Analysing Human Locomotor Tasks. <i>Annals of Biomedical Engineering</i> , 2017 , 45, 2762-2774	4.7	48
32	Shifting gears: dynamic muscle shape changes and force-velocity behavior in the medial gastrocnemius. <i>Journal of Applied Physiology</i> , 2017 , 123, 1433-1442	3.7	28
31	Muscle shortening velocity depends on tissue inertia and level of activation during submaximal contractions. <i>Biology Letters</i> , 2016 , 12,	3.6	13
30	Passive Muscle-Tendon Unit Gearing Is Joint Dependent in Human Medial Gastrocnemius. <i>Frontiers in Physiology</i> , 2016 , 7, 95	4.6	12

29	Is there sufficient evidence to claim muscle units are not localised and functionally grouped within the human gastrocnemius?. <i>Journal of Physiology</i> , 2016 , 594, 1953-4	3.9	13
28	Quantifying Achilles tendon force in vivo from ultrasound images. <i>Journal of Biomechanics</i> , 2016 , 49, 3200-3207	2.9	29
27	The effect of intramuscular fat on skeletal muscle mechanics: implications for the elderly and obese. <i>Journal of the Royal Society Interface</i> , 2015 , 12, 20150365	4.1	97
26	Multidimensional models for predicting muscle structure and fascicle pennation. <i>Journal of Theoretical Biology</i> , 2015 , 382, 57-63	2.3	14
25	Achilles tendon moment arms: the importance of measuring at constant tendon load when using the tendon excursion method. <i>Journal of Biomechanics</i> , 2015 , 48, 1206-9	2.9	19
24	Structural and mechanical properties of the human Achilles tendon: Sex and strength effects. <i>Journal of Biomechanics</i> , 2015 , 48, 3530-3	2.9	31
23	Muscle coordination limits efficiency and power output of human limb movement under a wide range of mechanical demands. <i>Journal of Neurophysiology</i> , 2015 , 114, 3283-95	3.2	21
22	Transverse Strains in Muscle Fascicles during Voluntary Contraction: A 2D Frequency Decomposition of B-Mode Ultrasound Images. <i>International Journal of Biomedical Imaging</i> , 2014 , 2014, 352910	5.2	15
21	Regionalizing muscle activity causes changes to the magnitude and direction of the force from whole muscles-a modeling study. <i>Frontiers in Physiology</i> , 2014 , 5, 298	4.6	20
20	Validation of Hill-type muscle models in relation to neuromuscular recruitment and force-velocity properties: predicting patterns of in vivo muscle force. <i>Integrative and Comparative Biology</i> , 2014 , 54, 1072-83	2.8	27
19	3D curvature of muscle fascicles in triceps surae. <i>Journal of Applied Physiology</i> , 2014 , 117, 1388-97	3.7	14
18	Early deactivation of slower muscle fibres at high movement frequencies. <i>Journal of Experimental Biology</i> , 2014 , 217, 3528-34	3	10
17	Muscle gearing during isotonic and isokinetic movements in the ankle plantarflexors. <i>European Journal of Applied Physiology</i> , 2013 , 113, 437-47	3.4	41
16	3D fascicle orientations in triceps surae. <i>Journal of Applied Physiology</i> , 2013 , 115, 116-25	3.7	31
15	The effect of external compression on the mechanics of muscle contraction. <i>Journal of Applied Biomechanics</i> , 2013 , 29, 360-4	1.2	34
14	A muscle's force depends on the recruitment patterns of its fibers. <i>Annals of Biomedical Engineering</i> , 2012 , 40, 1708-20	4.7	42
13	In-vivo quantification of 3D muscle architecture in Triceps Surae muscle. FASEB Journal, 2012, 26, 1078	3. 29 .9	
12	Computational methods for quantifying in vivo muscle fascicle curvature from ultrasound images. <i>Journal of Biomechanics</i> , 2011 , 44, 2538-43	2.9	36

LIST OF PUBLICATIONS

11	Journal of Electromyography and Kinesiology, 2011 , 21, 557-65	2.5	24	
10	Modelling muscle forces: from scaled fibres to physiological task-groups. <i>Procedia IUTAM</i> , 2011 , 2, 31	7-326	2	
9	Movement mechanics as a determinate of muscle structure, recruitment and coordination. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2011 , 366, 1554-64	5.8	67	
8	Kinetics and Muscular Function in Alpine Skiing 2010 , 78-90			
7	Patterns of motor recruitment can be determined using surface EMG. <i>Journal of Electromyography and Kinesiology</i> , 2009 , 19, 199-207	2.5	56	
6	The recruitment of different compartments within a muscle depends on the mechanics of the movement. <i>Biology Letters</i> , 2009 , 5, 30-4	3.6	41	
5	Neuromechanics of muscle synergies during cycling. <i>Journal of Neurophysiology</i> , 2009 , 101, 843-54	3.2	73	
4	The effects of training aids on the longissimus dorsi in the equine back. <i>Comparative Exercise Physiology</i> , 2008 , 5, 111	0.7	20	
3	Motor unit recruitment patterns 1: responses to changes in locomotor velocity and incline. <i>Journal of Experimental Biology</i> , 2008 , 211, 1882-92	3	34	
2	Muscle fibre recruitment can respond to the mechanics of the muscle contraction. <i>Journal of the Royal Society Interface</i> , 2006 , 3, 533-44	4.1	82	
1	Motor units are recruited in a task-dependent fashion during locomotion. <i>Journal of Experimental Biology</i> , 2004 , 207, 3883-90	3	57	