

# Erik Bruun Simonsen

## 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.

75  
papers

3,581  
citations

25  
h-index

59  
g-index

75  
ext. papers

3,925  
ext. citations

2.8  
avg, IF

4.88  
L-index

#	Paper	IF	Citations
75	Factors correlated with running economy among elite middle- and long-distance runners. <i>Physiological Reports</i> , <b>2021</b> , 9, e15076	2.6	0
74	Functional muscle synergies to support the knee against moment specific loads while weight bearing. <i>Journal of Electromyography and Kinesiology</i> , <b>2021</b> , 56, 102506	2.5	2
73	Forward lunge before and after anterior cruciate ligament reconstruction: Faster movement but unchanged knee joint biomechanics. <i>PLoS ONE</i> , <b>2020</b> , 15, e0228071	3.7	1
72	What are the gray and white matter volumes of the human spinal cord?. <i>Journal of Neurophysiology</i> , <b>2020</b> , 124, 1792-1797	3.2	2
71	Predicting post-operative functional ability from pre-operative measures in ACL-injured individuals. <i>Scandinavian Journal of Medicine and Science in Sports</i> , <b>2020</b> , 30, 166-173	4.6	2
70	Occupational lifting predicts hospital admission due to low back pain in a cohort of airport baggage handlers. <i>International Archives of Occupational and Environmental Health</i> , <b>2020</b> , 93, 111-122	3.2	2
69	Knee osteoarthritis among airport baggage handlers: A prospective cohort study. <i>American Journal of Industrial Medicine</i> , <b>2019</b> , 62, 951-960	2.7	3
68	Experimental muscle pain of the vastus medialis reduces knee joint extensor torque and alters quadriceps muscle contributions as revealed through musculoskeletal modeling. <i>Clinical Biomechanics</i> , <b>2019</b> , 67, 27-33	2.2	1
67	Assessment of objective dynamic knee joint control in anterior cruciate ligament deficient and reconstructed individuals. <i>Knee</i> , <b>2019</b> , 26, 578-585	2.6	3
66	Anterior cruciate ligament reconstruction improves subjective ability but not neuromuscular biomechanics during dynamic tasks. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , <b>2019</b> , 27, 636-645	5.5	2
65	Differences in EMG-moment relationships between ACL-injured and uninjured adults during a weight-bearing multidirectional force control task. <i>Journal of Orthopaedic Research</i> , <b>2019</b> , 37, 113-123	3.8	12
64	Risk of subacromial shoulder disorder in airport baggage handlers: combining duration and intensity of musculoskeletal shoulder loads. <i>Ergonomics</i> , <b>2018</b> , 61, 576-587	2.9	4
63	A hierarchy in functional muscle roles at the knee is influenced by sex and anterior cruciate ligament deficiency. <i>Clinical Biomechanics</i> , <b>2018</b> , 57, 129-136	2.2	8
62	Copenhagen Airport Cohort: air pollution, manual baggage handling and health. <i>BMJ Open</i> , <b>2017</b> , 7, e013651		12
61	Predicting the Functional Roles of Knee Joint Muscles from Internal Joint Moments. <i>Medicine and Science in Sports and Exercise</i> , <b>2017</b> , 49, 527-537	1.2	22
60	Joint dynamics and intra-subject variability during countermovement jumps in children and adults. <i>Journal of Biomechanics</i> , <b>2016</b> , 49, 2968-2974	2.9	5
59	Reliable Gait Recognition Using 3D Reconstructions and Random Forests - An Anthropometric Approach. <i>Journal of Forensic Sciences</i> , <b>2016</b> , 61, 637-48	1.8	4

58	Intra- and inter-subject variation in lower limb coordination during countermovement jumps in children and adults. <i>Human Movement Science</i> , <b>2016</b> , 46, 63-77	2.4	9
57	A Cohort Study on Meniscal Lesions among Airport Baggage Handlers. <i>PLoS ONE</i> , <b>2016</b> , 11, e0157336	3.7	5
56	Subacromial shoulder disorders among baggage handlers: an observational cohort study. <i>International Archives of Occupational and Environmental Health</i> , <b>2016</b> , 89, 867-76	3.2	9
55	Gait variability and motor control in people with knee osteoarthritis. <i>Gait and Posture</i> , <b>2015</b> , 42, 479-84	2.6	27
54	New equations to calculate 3D joint centres in the lower extremities. <i>Medical Engineering and Physics</i> , <b>2015</b> , 37, 948-55	2.4	7
53	Changes in soleus H-reflex during walking in middle-aged, healthy subjects. <i>Muscle and Nerve</i> , <b>2015</b> , 51, 419-25	3.4	8
52	Height estimations based on eye measurements throughout a gait cycle. <i>Forensic Science International</i> , <b>2014</b> , 236, 170-4	2.6	7
51	Variability and similarity of gait as evaluated by joint angles: implications for forensic gait analysis. <i>Journal of Forensic Sciences</i> , <b>2014</b> , 59, 494-504	1.8	23
50	Markerless motion capture can provide reliable 3D gait kinematics in the sagittal and frontal plane. <i>Medical Engineering and Physics</i> , <b>2014</b> , 36, 1168-75	2.4	47
49	Sex differences in muscular load among house painters performing identical work tasks. <i>European Journal of Applied Physiology</i> , <b>2014</b> , 114, 1901-11	3.4	23
48	Markerless motion capture systems for tracking of persons in forensic biomechanics: an overview. <i>Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization</i> , <b>2014</b> , 2, 46-65	0.9	10
47	Influence of velocity on variability in gait kinematics: implications for recognition in forensic science. <i>Journal of Forensic Sciences</i> , <b>2014</b> , 59, 1242-7	1.8	5
46	Contributions to the understanding of gait control. <i>Danish Medical Journal</i> , <b>2014</b> , 61, B4823	3.8	20
45	Gait pattern in 9-11-year-old children with generalized joint hypermobility compared with controls; a cross-sectional study. <i>BMC Musculoskeletal Disorders</i> , <b>2013</b> , 14, 341	2.8	11
44	Effect of generalized joint hypermobility on knee function and muscle activation in children and adults. <i>Muscle and Nerve</i> , <b>2013</b> , 48, 762-9	3.4	28
43	Influence of stimulus intensity on the soleus H-reflex amplitude and modulation during locomotion. <i>Journal of Electromyography and Kinesiology</i> , <b>2013</b> , 23, 438-42	2.5	3
42	Baggage handler seniority and musculoskeletal symptoms: is heavy lifting in awkward positions associated with the risk of pain?. <i>BMJ Open</i> , <b>2013</b> , 3, e004055	3	20
41	The effect of foot progression angle on knee joint compression force during walking. <i>Journal of Applied Biomechanics</i> , <b>2013</b> , 29, 329-35	1.2	10

40	The variability problem of normal human walking. <i>Medical Engineering and Physics</i> , <b>2012</b> , 34, 219-24	2.4	25
39	Walking on high heels changes muscle activity and the dynamics of human walking significantly. <i>Journal of Applied Biomechanics</i> , <b>2012</b> , 28, 20-8	1.2	60
38	Explanations pertaining to the hip joint flexor moment during the stance phase of human walking. <i>Journal of Applied Biomechanics</i> , <b>2012</b> , 28, 542-50	1.2	19
37	Gait analysis of adults with generalised joint hypermobility. <i>Clinical Biomechanics</i> , <b>2012</b> , 27, 573-7	2.2	26
36	Computational modeling of a forward lunge: towards a better understanding of the function of the cruciate ligaments. <i>Journal of Anatomy</i> , <b>2012</b> , 221, 590-7	2.9	13
35	Antagonist muscle moment is increased in ACL deficient subjects during maximal dynamic knee extension. <i>Knee</i> , <b>2012</b> , 19, 633-9	2.6	21
34	Knee function in 10-year-old children and adults with Generalised Joint Hypermobility. <i>Knee</i> , <b>2012</b> , 19, 773-8	2.6	18
33	Reflex response and control of the human soleus and gastrocnemius muscles during walking and running at increasing velocity. <i>Experimental Brain Research</i> , <b>2012</b> , 219, 163-74	2.3	9
32	Movement behavior of high-heeled walking: how does the nervous system control the ankle joint during an unstable walking condition?. <i>PLoS ONE</i> , <b>2012</b> , 7, e37390	3.7	10
31	Test-retest reliability of the soleus H-reflex excitability measured during human walking. <i>Human Movement Science</i> , <b>2011</b> , 30, 333-40	2.4	10
30	Different knee joint loading patterns in ACL deficient copers and non-copers during walking. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , <b>2011</b> , 19, 615-21	5.5	31
29	Redistribution of joint moments during walking in patients with drop-foot. <i>Clinical Biomechanics</i> , <b>2010</b> , 25, 949-52	2.2	22
28	Gait Recognition Using Joint Moments, Joint Angles, and Segment Angles. <i>Journal of Forensic Biomechanics</i> , <b>2010</b> , 1, 1-7		8
27	Forward lunge as a functional performance test in ACL deficient subjects: test-retest reliability. <i>Knee</i> , <b>2009</b> , 16, 176-82	2.6	19
26	Experimentally reduced hip abductor function during walking: Implications for knee joint loads. <i>Journal of Biomechanics</i> , <b>2009</b> , 42, 1236-40	2.9	50
25	Influence of pain and gender on impact loading during walking: a randomised trial. <i>Clinical Biomechanics</i> , <b>2008</b> , 23, 221-30	2.2	11
24	Gait analysis in forensic medicine*. <i>Journal of Forensic Sciences</i> , <b>2008</b> , 53, 1149-53	1.8	90
23	Variability of bodily measures of normally dressed people using PhotoModeler Pro 5. <i>Journal of Forensic Sciences</i> , <b>2008</b> , 53, 1393-9	1.8	12

22	Experimental quadriceps muscle pain impairs knee joint control during walking. <i>Journal of Applied Physiology</i> , <b>2007</b> , 103, 132-9	3.7	74
21	Increased joint loads during walking--a consequence of pain relief in knee osteoarthritis. <i>Knee</i> , <b>2006</b> , 13, 445-50	2.6	76
20	Walking pattern in 9 women with hip dysplasia 18 months after periacetabular osteotomy. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , <b>2006</b> , 77, 203-8	4.3	35
19	Impulse-forces during walking are not increased in patients with knee osteoarthritis. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , <b>2006</b> , 77, 650-6	4.3	21
18	Walking pattern in adults with congenital hip dysplasia: 14 women examined by inverse dynamics. <i>Acta Orthopaedica</i> , <b>2004</b> , 75, 2-9		45
17	Evaluation of the walking pattern in two types of patients with anterior cruciate ligament deficiency: copers and non-copers. <i>European Journal of Applied Physiology</i> , <b>2003</b> , 89, 301-8	3.4	75
16	Interindividual differences in H reflex modulation during normal walking. <i>Experimental Brain Research</i> , <b>2002</b> , 142, 108-15	2.3	16
15	Increased rate of force development and neural drive of human skeletal muscle following resistance training. <i>Journal of Applied Physiology</i> , <b>2002</b> , 93, 1318-26	3.7	1020
14	Differences in the movement pattern of a forward lunge in two types of anterior cruciate ligament deficient patients: copers and non-copers. <i>Clinical Biomechanics</i> , <b>2002</b> , 17, 586-93	2.2	69
13	Neural adaptation to resistance training: changes in evoked V-wave and H-reflex responses. <i>Journal of Applied Physiology</i> , <b>2002</b> , 92, 2309-18	3.7	425
12	H reflexes recorded during locomotion. <i>Advances in Experimental Medicine and Biology</i> , <b>2002</b> , 508, 377-83.6		13
11	Contraction-specific differences in maximal muscle power during stretch-shortening cycle movements in elderly males and females. <i>European Journal of Applied Physiology</i> , <b>2001</b> , 84, 206-12	3.4	92
10	Soleus H-reflex gain in humans walking and running under simulated reduced gravity. <i>Journal of Physiology</i> , <b>2001</b> , 530, 167-80	3.9	85
9	Comparison of inverse dynamics calculated by two- and three-dimensional models during walking. <i>Gait and Posture</i> , <b>2001</b> , 13, 73-7	2.6	48
8	Evaluation of the Walking Pattern in Clubfoot Patients Who Received Early Intensive Treatment. <i>Journal of Pediatric Orthopaedics</i> , <b>2000</b> , 20, 642-647	2.4	29
7	Anatomical differences in the psoas muscles in young black and white men. <i>Journal of Anatomy</i> , <b>1999</b> , 194 ( Pt 2), 303-7	2.9	24
6	Anatomical differences in the psoas muscles in young black and white men. <i>American Journal of Anatomy</i> , <b>1999</b> , 194, 303-307		
5	A new concept for isokinetic hamstring: quadriceps muscle strength ratio. <i>American Journal of Sports Medicine</i> , <b>1998</b> , 26, 231-7	6.8	342

4	Dynamics of the martial arts high front kick. <i>Journal of Sports Sciences</i> , <b>1996</b> , 14, 483-95	3.6	57
3	The influence of strength training, swim training and ageing on the Achilles tendon and m. soleus of the rat. <i>Journal of Sports Sciences</i> , <b>1995</b> , 13, 291-5	3.6	74
2	Shoulder muscle load and muscle fatigue among industrial sewing-machine operators. <i>European Journal of Applied Physiology and Occupational Physiology</i> , <b>1993</b> , 67, 467-75		64
1	Activity of mono- and biarticular leg muscles during sprint running. <i>European Journal of Applied Physiology and Occupational Physiology</i> , <b>1985</b> , 54, 524-32		86