

# Benedicte Vanwanseele

## List of Publications by Year in descending order

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Version: 2024-02-01

132  
papers

3,326  
citations

172457

29  
h-index

175258

52  
g-index

137  
all docs

137  
docs citations

137  
times ranked

3500  
citing authors

#	ARTICLE	IF	CITATIONS
1	Changes in running kinematics and kinetics after a 12-week running program for beginners. <i>Sports Biomechanics</i> , 2022, 21, 201-211.	1.6	4
2	Dose-response effects of forefoot and arch orthotic components on the center of pressure trajectory during running in pronated feet. <i>Gait and Posture</i> , 2022, 92, 212-217.	1.4	9
3	Optimal mechanical force-velocity profile for sprint acceleration performance. <i>Scandinavian Journal of Medicine and Science in Sports</i> , 2022, 32, 559-575.	2.9	22
4	The effect of interventions anticipated to improve plantar intrinsic foot muscle strength on fall-related dynamic function in adults: a systematic review. <i>Journal of Foot and Ankle Research</i> , 2022, 15, 3.	1.9	9
5	Joint kinematics alone can distinguish hip or knee osteoarthritis patients from asymptomatic controls with high accuracy. <i>Journal of Orthopaedic Research</i> , 2022, 40, 2229-2239.	2.3	4
6	Intra-assessor reliability and measurement error of ultrasound measures for foot muscle morphology in older adults using a tablet-based ultrasound machine. <i>Journal of Foot and Ankle Research</i> , 2022, 15, 6.	1.9	4
7	Muscle-tendon properties and functional gait outcomes in clubfoot patients with and without a relapse compared to typically developing children. <i>Gait and Posture</i> , 2022, 93, 47-53.	1.4	2
8	Impact of Gender and Feature Set on Machine-Learning-Based Prediction of Lower-Limb Overuse Injuries Using a Single Trunk-Mounted Accelerometer. <i>Sensors</i> , 2022, 22, 2860.	3.8	1
9	Movement Quality Parameters during Gait Assessed by a Single Accelerometer in Subjects with Osteoarthritis and Following Total Joint Arthroplasty. <i>Sensors</i> , 2022, 22, 2955.	3.8	9
10	Inertial Sensor-to-Segment Calibration for Accurate 3D Joint Angle Calculation for Use in OpenSim. <i>Sensors</i> , 2022, 22, 3259.	3.8	10
11	Can the Output of a Learned Classification Model Monitor a Person's Functional Recovery Status Post-Total Knee Arthroplasty?. <i>Sensors</i> , 2022, 22, 3698.	3.8	4
12	The effects of foot orthosis and low-dye tape on lower limb joint angles and moments during running in individuals with pes planus. <i>Gait and Posture</i> , 2022, 96, 154-159.	1.4	3
13	Sprint force-velocity profiles in soccer players: impact of sex and playing level. <i>Sports Biomechanics</i> , 2021, 20, 947-957.	1.6	15
14	Influence of heel design on lower extremity biomechanics and comfort perception in overground running. <i>Journal of Sports Sciences</i> , 2021, 39, 232-238.	2.0	8
15	Contact Force Reconstruction from the Lower-Back Accelerations during Walking on Vibrating Surfaces. <i>Vibration</i> , 2021, 4, 205-231.	1.9	0
16	Distal-to-proximal joint mechanics redistribution is a main contributor to reduced walking economy in older adults. <i>Scandinavian Journal of Medicine and Science in Sports</i> , 2021, 31, 1036-1047.	2.9	19
17	Evaluation of functional muscle anatomy scalability in the canine hind limb. <i>Journal of Veterinary Medicine Series C: Anatomia Histologia Embryologia</i> , 2021, 50, 637-644.	0.7	0
18	Novel technology in sports biomechanics: some words of caution. <i>Sports Biomechanics</i> , 2021, , 1-9.	1.6	32

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19	The energetic, kinematic and kinetic responses to load carried on the back, on the head and in a doublepack. <i>Ergonomics</i> , 2021, 64, 1191-1204.	2.1	1
20	Axial Spondyloarthritis is associated with changes in lumbosacral loading during daily activities. <i>Clinical Biomechanics</i> , 2021, 85, 105347.	1.2	0
21	Differences in multi-segmental spine kinematics between patients with different stages of axial spondyloarthritis and healthy controls. <i>Musculoskeletal Science and Practice</i> , 2021, 53, 102368.	1.3	3
22	The Use of a Single Trunk-Mounted Accelerometer to Detect Changes in Center of Mass Motion Linked to Lower-Leg Overuse Injuries: A Prospective Study. <i>Sensors</i> , 2021, 21, 7385.	3.8	5
23	Ultrasound-Based Optimal Parameter Estimation Improves Assessment of Calf Muscle-Tendon Interaction During Walking. <i>Annals of Biomedical Engineering</i> , 2020, 48, 722-733.	2.5	15
24	Recommendations for statistical analysis involving null hypothesis significance testing. <i>Sports Biomechanics</i> , 2020, 19, 561-568.	1.6	27
25	An age-adapted plyometric exercise program improves dynamic strength, jump performance and functional capacity in older men either similarly or more than traditional resistance training. <i>PLoS ONE</i> , 2020, 15, e0237921.	2.5	15
26	Towards the Monitoring of Functional Status in a Free-Living Environment for People with Hip or Knee Osteoarthritis: Design and Evaluation of the JOLO Blended Care App. <i>Sensors</i> , 2020, 20, 6967.	3.8	9
27	Accelerometer Based Data Can Provide a Better Estimate of Cumulative Load During Running Compared to GPS Based Parameters. <i>Frontiers in Sports and Active Living</i> , 2020, 2, 575596.	1.8	10
28	Functional movement assessment by means of inertial sensor technology to discriminate between movement behaviour of healthy controls and persons with knee osteoarthritis. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2020, 17, 65.	4.6	15
29	Discriminant validity of 3D joint kinematics and centre of mass displacement measured by inertial sensor technology during the unipodal stance task. <i>PLoS ONE</i> , 2020, 15, e0232513.	2.5	7
30	Age-related differences in vastus lateralis fascicle behavior during fast accelerative leg extension movements. <i>Scandinavian Journal of Medicine and Science in Sports</i> , 2020, 30, 1878-1887.	2.9	2
31	A Machine Learning Approach to Estimate Hip and Knee Joint Loading Using a Mobile Phone-Embedded IMU. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 320.	4.1	29
32	Achilles Subtendon Structure and Behavior as Evidenced From Tendon Imaging and Computational Modeling. <i>Frontiers in Sports and Active Living</i> , 2020, 2, 70.	1.8	14
33	Inter-segmental coordination of the spine is altered during lifting in patients with ankylosing spondylitis. <i>Medicine (United States)</i> , 2020, 99, e18941.	1.0	2
34	Multiview 3D Markerless Human Pose Estimation from OpenPose Skeletons. <i>Lecture Notes in Computer Science</i> , 2020, , 166-178.	1.3	11
35	CONTACT FORCE RECONSTRUCTION ON VIBRATING SURFACES. , 2020, , .		1
36	Age-Related Changes in Achilles Tendon Stiffness and Impact on Functional Activities: A Systematic Review and Meta-Analysis. <i>Journal of Aging and Physical Activity</i> , 2019, 27, 116-127.	1.0	33

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37	The influence of knee joint geometry and alignment on the tibiofemoral load distribution: A computational study. <i>Knee</i> , 2019, 26, 813-823.	1.6	27
38	Differences in foot muscle morphology and foot kinematics between symptomatic and asymptomatic pronated feet. <i>Scandinavian Journal of Medicine and Science in Sports</i> , 2019, 29, 1766-1773.	2.9	20
39	Habitual foot strike pattern does not affect simulated Triceps Surae muscle metabolic energy consumption during running. <i>Journal of Experimental Biology</i> , 2019, 222, .	1.7	6
40	Machine learning algorithms can classify outdoor terrain types during running using accelerometry data. <i>Gait and Posture</i> , 2019, 74, 176-181.	1.4	30
41	Multi-segment spine and hip kinematics in asymptomatic individuals during standardized return from forward bending versus functional box lifting. <i>Journal of Electromyography and Kinesiology</i> , 2019, 49, 102352.	1.7	5
42	Variation of actin filament length in dogs. <i>Journal of Anatomy</i> , 2019, 234, 694-699.	1.5	1
43	Effect of acceleration on the rate of power development and neural activity of the leg extensors across the adult life span. <i>European Journal of Applied Physiology</i> , 2019, 119, 781-789.	2.5	6
44	Do Stretch-Shortening Cycles Really Occur in the Medial Gastrocnemius? A Detailed Bilateral Analysis of the Muscle-Tendon Interaction During Jumping. <i>Frontiers in Physiology</i> , 2019, 10, 1504.	2.8	12
45	Effect of habitual foot-strike pattern on the gastrocnemius medialis muscle-tendon interaction and muscle force production during running. <i>Journal of Applied Physiology</i> , 2019, 126, 708-716.	2.5	24
46	Reliability and Agreement of 3D Trunk and Lower Extremity Movement Analysis by Means of Inertial Sensor Technology for Unipodal and Bipodal Tasks. <i>Sensors</i> , 2019, 19, 141.	3.8	16
47	AMIE: Automatic Monitoring of Indoor Exercises. <i>Lecture Notes in Computer Science</i> , 2019, , 424-439.	1.3	9
48	Vision-Based Marker-Less Spatiotemporal Gait Analysis by Using a Mobile Platform: Preliminary Validation. <i>Communications in Computer and Information Science</i> , 2019, , 126-141.	0.5	0
49	Knee Joint Loading in Healthy Adults During Functional Exercises: Implications for Rehabilitation Guidelines. <i>Journal of Orthopaedic and Sports Physical Therapy</i> , 2018, 48, 162-173.	3.5	71
50	Gait adaptations of older adults on an uneven brick surface can be predicted by age-related physiological changes in strength. <i>Gait and Posture</i> , 2018, 61, 257-262.	1.4	32
51	Energy cost of running instability evaluated with wearable trunk accelerometry. <i>Journal of Applied Physiology</i> , 2018, 124, 462-472.	2.5	6
52	Novice runners show greater changes in kinematics with fatigue compared with competitive runners. <i>Sports Biomechanics</i> , 2018, 17, 350-360.	1.6	54
53	Influence of outdoor running fatigue and medial tibial stress syndrome on accelerometer-based loading and stability. <i>Gait and Posture</i> , 2018, 59, 222-228.	1.4	47
54	The morphology of foot soft tissues is associated with running shoe type in healthy recreational runners. <i>Journal of Science and Medicine in Sport</i> , 2018, 21, 686-690.	1.3	10

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55	Age-related differences in rate of power development exceed differences in peak power. <i>Experimental Gerontology</i> , 2018, 101, 95-100.	2.8	12
56	Effect of a prehop on the muscle-tendon interaction during vertical jumps. <i>Journal of Applied Physiology</i> , 2018, 124, 1203-1211.	2.5	10
57	Data fusion of body-worn accelerometers and heart rate to predict VO2max during submaximal running. <i>PLoS ONE</i> , 2018, 13, e0199509.	2.5	21
58	Age-related decline in leg-extensor power development in single- versus multi-joint movements. <i>Experimental Gerontology</i> , 2018, 110, 98-104.	2.8	8
59	Test-retest reliability of knee extensor rate of velocity and power development in older adults using the isotonic mode on a Biodex System 3 dynamometer. <i>PLoS ONE</i> , 2018, 13, e0196838.	2.5	26
60	Fatigue Prediction in Outdoor Runners Via Machine Learning and Sensor Fusion. , 2018, , .		27
61	Musculotendon excursion potential, tendon slack and muscle fibre length: the interaction of the canine gastrocnemius muscle and tendon. <i>Journal of Anatomy</i> , 2018, 233, 460-467.	1.5	22
62	P 074 - A comparison of foot kinematics in children with clubfeet and healthy controls using the Oxford Foot Model. <i>Gait and Posture</i> , 2018, 65, 353-354.	1.4	1
63	Gait kinetics in children with clubfeet treated surgically or with the Ponseti method: A meta-analysis. <i>Gait and Posture</i> , 2018, 66, 94-100.	1.4	13
64	Reliability of 3D Lower Extremity Movement Analysis by Means of Inertial Sensor Technology during Transitional Tasks. <i>Sensors</i> , 2018, 18, 2638.	3.8	8
65	Muscle-tendon unit length changes differ between young and adult sprinters in the first stance phase of sprint running. <i>Royal Society Open Science</i> , 2018, 5, 180332.	2.4	7
66	Functional Effects of Shoes. , 2018, , 1423-1432.		0
67	Bilateral differences in muscle fascicle architecture are not related to the preferred leg in jumping athletes. <i>European Journal of Applied Physiology</i> , 2017, 117, 1453-1461.	2.5	20
68	Foot muscle morphology is related to center of pressure sway and control mechanisms during single-leg standing. <i>Gait and Posture</i> , 2017, 57, 52-56.	1.4	27
69	Joint power generation differentiates young and adult sprinters during the transition from block start into acceleration: a cross-sectional study. <i>Sports Biomechanics</i> , 2017, 16, 452-462.	1.6	10
70	Comparison of foot muscle morphology and foot kinematics between recreational runners with normal feet and with asymptomatic over-pronated feet. <i>Gait and Posture</i> , 2017, 54, 290-294.	1.4	49
71	Effects of habitual running shoe type on foot soft tissues' morphology. <i>Footwear Science</i> , 2017, 9, S63-S64.	2.1	0
72	Assessment of specific muscle tension in dogs through functional electrical stimulation of the gastrocnemius muscle. <i>Research in Veterinary Science</i> , 2017, 113, 33-39.	1.9	0

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73	Adding an arch support to a heel lift improves stability and comfort during gait. <i>Gait and Posture</i> , 2017, 58, 94-97.	1.4	17
74	Characterisation of the responsive properties of two running-specific prosthetic models. <i>Prosthetics and Orthotics International</i> , 2017, 41, 141-148.	1.0	6
75	The effect of three surface conditions, speed and running experience on vertical acceleration of the tibia during running. <i>Sports Biomechanics</i> , 2017, 16, 166-176.	1.6	43
76	Concurrent validity and reliability of wireless instrumented insoles measuring postural balance and temporal gait parameters. <i>Gait and Posture</i> , 2017, 51, 116-124.	1.4	46
77	Lateral trunk lean and medializing the knee as gait strategies for knee osteoarthritis. <i>Gait and Posture</i> , 2017, 51, 247-253.	1.4	35
78	Knee Cartilage Thickness, T1 $\rho$ and T2 Relaxation Time Are Related to Articular Cartilage Loading in Healthy Adults. <i>PLoS ONE</i> , 2017, 12, e0170002.	2.5	46
79	Information from dynamic length changes improves reliability of static ultrasound fascicle length measurements. <i>PeerJ</i> , 2017, 5, e4164.	2.0	12
80	Functional Effects of Shoes. , 2017, , 1-10.		0
81	Musculoskeletal modelling in dogs: challenges and future perspectives. <i>Veterinary and Comparative Orthopaedics and Traumatology</i> , 2016, 29, 181-187.	0.5	22
82	Cartilage volume and thickness but not biochemical properties relate to joint loading during gait in healthy controls. <i>Osteoarthritis and Cartilage</i> , 2016, 24, S112.	1.3	0
83	An optimized design of in-shoe heel lifts reduces plantar pressure of healthy males. <i>Gait and Posture</i> , 2016, 47, 43-47.	1.4	11
84	Biofeedback in Partial Weight Bearing: Validity of 3 Different Devices. <i>Journal of Orthopaedic and Sports Physical Therapy</i> , 2016, 46, 993-1001.	3.5	7
85	Surface effects on dynamic stability and loading during outdoor running using wireless trunk accelerometry. <i>Gait and Posture</i> , 2016, 48, 220-225.	1.4	38
86	Tibiofemoral joint loading during therapeutic exercises and activities of daily living: Implications for rehabilitation in osteoarthritis and cartilage repair surgery. <i>Osteoarthritis and Cartilage</i> , 2016, 24, S111-S112.	1.3	0
87	Selecting gait modification strategies for patients with knee osteoarthritis. <i>Osteoarthritis and Cartilage</i> , 2016, 24, S112-S113.	1.3	0
88	Biofeedback in Partial Weight Bearing: Usability of Two Different Devices from a Patient's and Physical Therapist's Perspective. <i>PLoS ONE</i> , 2016, 11, e0165199.	2.5	11
89	Wireless Tri-Axial Trunk Accelerometry Detects Deviations in Dynamic Center of Mass Motion Due to Running-Induced Fatigue. <i>PLoS ONE</i> , 2015, 10, e0141957.	2.5	66
90	In-shoe multi-segment foot kinematics of children during the propulsive phase of walking and running. <i>Human Movement Science</i> , 2015, 39, 200-211.	1.4	17

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91	Train High Eat Low for Osteoarthritis study (THE LO study): protocol for a randomized controlled trial. <i>Journal of Physiotherapy</i> , 2015, 61, 217.	1.7	4
92	Proactive and reactive neuromuscular control in subjects with chronic ankle instability: Evidence from a pilot study on landing. <i>Gait and Posture</i> , 2015, 41, 106-111.	1.4	25
93	The effect of external ankle support on the kinematics and kinetics of the lower limb during a side step cutting task in netballers. <i>BMC Sports Science, Medicine and Rehabilitation</i> , 2014, 6, 42.	1.7	13
94	Treatment of Forefoot Problems in Older People: A Randomized Clinical Trial Comparing Podiatric Treatment With Standardized Shoe Advice. <i>Annals of Family Medicine</i> , 2014, 12, 432-440.	1.9	8
95	Development and evaluation of a leaflet containing shoe advice: a randomized controlled trial. <i>Family Practice</i> , 2014, 31, 267-272.	1.9	5
96	The effect of external ankle support on knee and ankle joint movement and loading in netball players. <i>Journal of Science and Medicine in Sport</i> , 2014, 17, 511-515.	1.3	25
97	Variation in the location of the shoe sole flexion point influences plantar loading patterns during gait. <i>Journal of Foot and Ankle Research</i> , 2014, 7, 20.	1.9	4
98	Individual selection of gait retraining strategies is essential to optimally reduce medial knee load during gait. <i>Clinical Biomechanics</i> , 2014, 29, 828-834.	1.2	55
99	An EMG assessment of Front Row Rugby Union Scrummaging. <i>International Journal of Performance Analysis in Sport</i> , 2014, 14, 225-237.	1.1	9
100	Effect of thong style flip-flops on children's barefoot walking and jogging kinematics. <i>Journal of Foot and Ankle Research</i> , 2013, 6, 8.	1.9	33
101	Process evaluation of podiatric treatment of patients with forefoot pain. <i>Journal of Foot and Ankle Research</i> , 2013, 6, 32.	1.9	3
102	Effect of sports shoes on midfoot power generation in children while walking and running. <i>Footwear Science</i> , 2013, 5, S55-S56.	2.1	0
103	Effect of sports shoes on children's vertical jump performance and midfoot and ankle kinetics. <i>Footwear Science</i> , 2013, 5, S58-S59.	2.1	2
104	Knee loading patterns in a simulated netball landing task. <i>European Journal of Sport Science</i> , 2013, 13, 475-482.	2.7	15
105	Mechanics of Jazz Shoes and Their Effect on Pointing in Child Dancers. <i>Journal of Applied Biomechanics</i> , 2012, 28, 242-248.	0.8	13
106	Children's functional performance barefoot and in sports shoes. <i>Journal of Foot and Ankle Research</i> , 2012, 5, .	1.9	0
107	Lower limb muscle strengthening does not change frontal plane moments in women with knee osteoarthritis: A randomized controlled trial. <i>Clinical Biomechanics</i> , 2011, 26, 167-174.	1.2	92
108	Progressive resistance training and dynamic alignment in osteoarthritis: A single-blind randomised controlled trial. <i>Clinical Biomechanics</i> , 2011, 26, 71-77.	1.2	44

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109	Measuring Lifting Forces in Rock Climbing: Effect of Hold Size and Fingertip Structure. Journal of Applied Biomechanics, 2011, 27, 40-46.	0.8	23
110	Effect of children's shoes on gait: a systematic review and meta-analysis. Journal of Foot and Ankle Research, 2011, 4, 3.	1.9	92
111	Children's rearfoot and midfoot motion while walking in school shoes. Journal of Foot and Ankle Research, 2011, 4, .	1.9	12
112	The Reliability and Validity of a Three-Camera Foot Image System for Obtaining Foot Anthropometrics. Journal of Applied Biomechanics, 2010, 26, 349-356.	0.8	2
113	Injury Prevalence In Australian Professional Golfers. Medicine and Science in Sports and Exercise, 2010, 42, 420-421.	0.4	0
114	The relationship between knee adduction moment and cartilage and meniscus morphology in women with osteoarthritis. Osteoarthritis and Cartilage, 2010, 18, 894-901.	1.3	56
115	Dynamic alignment and its association with knee adduction moment in medial knee osteoarthritis. Knee, 2010, 17, 210-216.	1.6	41
116	The association of external knee adduction moment with biomechanical variables in osteoarthritis: A systematic review. Knee, 2009, 16, 303-309.	1.6	200
117	Frontal Knee Alignment: Three-dimensional Marker Positions and Clinical Assessment. Clinical Orthopaedics and Related Research, 2009, 467, 504-509.	1.5	46
118	Resistive Exercise for Arthritic Cartilage Health (REACH): A randomized double-blind, sham-exercise controlled trial. BMC Geriatrics, 2009, 9, 1.	2.7	64
119	Strength training for treatment of osteoarthritis of the knee: A systematic review. Arthritis and Rheumatism, 2008, 59, 1488-1494.	6.7	225
120	A quantitative study of humeral cartilage in individuals with spinal cord injury. Spinal Cord, 2008, 46, 129-134.	1.9	9
121	Post-traumatic glenohumeral cartilage lesions: a systematic review. BMC Musculoskeletal Disorders, 2008, 9, 107.	1.9	40
122	Posterior cruciate ligament deficiency: Biomechanical and biological consequences and the outcomes of conservative treatment. Journal of Science and Medicine in Sport, 2008, 11, 433-443.	1.3	47
123	Quantitative Analysis of Local Changes in Patellar Cartilage in Spinal Cord Injured Subjects. Clinical Orthopaedics and Related Research, 2007, 456, 98-102.	1.5	6
124	Degenerative meniscus tears and mobility impairment in women with knee osteoarthritis. Osteoarthritis and Cartilage, 2007, 15, 701-708.	1.3	59
125	A review on the mechanical quality of articular cartilage " Implications for the diagnosis of osteoarthritis. Clinical Biomechanics, 2006, 21, 999-1012.	1.2	110
126	Long-term changes in the tibia and radius bone mineral density following spinal cord injury. Spinal Cord, 2005, 43, 96-101.	1.9	61

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127	In vivo precision of quantitative shoulder cartilage measurements, and changes after spinal cord injury. Magnetic Resonance in Medicine, 2004, 51, 1026-1030.	3.0	16
128	Longitudinal analysis of cartilage atrophy in the knees of patients with spinal cord injury. Arthritis and Rheumatism, 2003, 48, 3377-3381.	6.7	127
129	The effects of immobilization on the characteristics of articular cartilage: current concepts and future directions. Osteoarthritis and Cartilage, 2002, 10, 408-419.	1.3	189
130	Knee cartilage of spinal cord-injured patients displays progressive thinning in the absence of normal joint loading and movement. Arthritis and Rheumatism, 2002, 46, 2073-2078.	6.7	165
131	Muscle tuning and preferred movement path: do we need a paradigm shift or should we redefine the old? – comment on Nigg et al.. Current Issues in Sport Science, 0, , .	0.1	0
132	Triceps surae muscle force potential and force demand shift with altering stride frequency in running. Scandinavian Journal of Medicine and Science in Sports, 0, , .	2.9	10