Jos Vanrenterghem

List of Publications by Year
in descending order

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108 papers	3,887 citations	159358 30 h-index	143772 57 g-index
109 all docs	109 docs citations	109 times ranked	3584 citing authors

#	Article	IF	Citations
1	The inter-laboratory equivalence for lower limb kinematics and kinetics during unplanned sidestepping. Sports Biomechanics, 2024, 23, 324-334.	0.8	2
2	The non-sagittal knee moment vector identifies â€˜at riskâ€™ individuals that the knee abduction moment alone does not. Sports Biomechanics, 2023, 22, 80-90.	0.8	2
3	A labâ€based comparison of differential ratings of perceived exertion between a run and jump protocol involving low or high impacts on the lower extremities. European Journal of Sport Science, 2023, 23, 746-754.	1.4	0
4	Simultaneously assessing amplitude and temporal effects in biomechanical trajectories using nonlinear registration and statistical nonparametric mapping. Journal of Biomechanics, 2022, 136, 111049.	0.9	6
5	Effects of integrative neuromuscular training on the gait biomechanics of children with overweight and obesity. Scandinavian Journal of Medicine and Science in Sports, 2022, 32, 1119-1130.	1.3	2
6	Differential Ratings of Perceived Exertion: Relationships With External Intensity and Load in Elite Menâ€™s Football. International Journal of Sports Physiology and Performance, 2022, 17, 1415-1424.	1.1	2
7	Biomechanical loading during running: can a two mass-spring-damper model be used to evaluate ground reaction forces for high-intensity tasks?. Sports Biomechanics, 2021, 20, 571-582.	0.8	23
8	External load differences between elite youth and professional football players: ready for take-off?. Science and Medicine in Football, 2021, 5, 1-5.	1.0	15
9	Athletes with an ACL reconstruction show a different neuromuscular response to environmental challenges compared to uninjured athletes. Gait and Posture, 2021, 83, 44-51.	0.6	17
10	IMU gyroscopes are a valid alternative to 3D optical motion capture system for angular kinematics analysis in tennis. Proceedings of the Institution of Mechanical Engineers, Part P: Journal of Sports Engineering and Technology, 2021, 235, 3-12.	0.4	13
11	Accuracy and reliability of a low-cost methodology to assess 3D body posture based on commercial cameras and Excel templates. Measurement: Journal of the International Measurement Confederation, 2021, 173, 108638.	2.5	3
12	The Impact of Childhood Obesity on Joint Alignment: A Systematic Review and Meta-Analysis. Physical Therapy, 2021, 101, .	1.1	9
13	Understanding the effects of training on underwater undulatory swimming performance and kinematics. Sports Biomechanics, 2021, , 1-16.	0.8	20
14	External and internal loads during the competitive season in professional female soccer players according to their playing position: differences between training and competition. Research in Sports Medicine, 2021, 29, 449-461.	0.7	22
15	Load Monitoring Practice in European Elite Football and the Impact of Club Culture and Financial Resources. Frontiers in Sports and Active Living, 2021, 3, 679824.	0.9	6
16	Sample size estimation for biomechanical waveforms: Current practice, recommendations and a comparison to discrete power analysis. Journal of Biomechanics, 2021, 122, 110451.	0.9	26
17	Load Monitoring Practice in Elite Women Association Football. Frontiers in Sports and Active Living, 2021, 3, 715122.	0.9	1
18	Motor learning methods that induce high practice variability reduce kinematic and kinetic risk factors of non-contact ACL injury. Human Movement Science, 2021, 78, 102805.	0.6	16

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19	Neuromuscular and biomechanical landing alterations persist in athletes returning to sport after anterior cruciate ligament reconstruction. Knee, 2021, 33, 305-317.	0.8	5
20	Taping Benefits Ankle Joint Landing Kinematics in Subjects With Chronic Ankle Instability. Journal of Sport Rehabilitation, 2020, 29, 162-167.	0.4	8
21	Measuring biomechanical loads in team sports â€“ from lab to field. Science and Medicine in Football, 2020, 4, 246-252.	1.0	61
22	Changes in Torque-Angle Profiles of the Hamstrings and Hamstrings-to-Quadriceps Ratio After Two Hamstring Strengthening Exercise Interventions in Female Hockey Players. Journal of Strength and Conditioning Research, 2020, 34, 396-405.	1.0	9
23	Effects of Exercise on Plantar Pressure during Walking in Children with Overweight/Obesity. Medicine and Science in Sports and Exercise, 2020, 52, 654-662.	0.2	10
24	Temporal kinematic differences throughout single and double-leg forward landings. Journal of Biomechanics, 2020, 99, 109559.	0.9	9
25	Are Anterior Cruciate Ligamentâ€“reconstructed Athletes More Vulnerable to Fatigue than Uninjured Athletes?. Medicine and Science in Sports and Exercise, 2020, 52, 345-353.	0.2	11
26	Single-Joint and Whole-Body Movement Changes in Anterior Cruciate Ligament Athletes Returning to Sport. Medicine and Science in Sports and Exercise, 2020, 52, 1658-1667.	0.2	15
27	Effects of Exercise on Body Posture, Functional Movement, and Physical Fitness in Children With Overweight/Obesity. Journal of Strength and Conditioning Research, 2020, 34, 2146-2155.	1.0	19
28	A neural network method to predict task- and step-specific ground reaction force magnitudes from trunk accelerations during running activities. Medical Engineering and Physics, 2020, 78, 82-89.	0.8	28
29	Whole-body dynamic stability in side cutting: Implications for markers of lower limb injury risk and change of direction performance. Journal of Biomechanics, 2020, 104, 109711.	0.9	12
30	Role of physical fitness and functional movement in the body posture of children with overweight/obesity. Gait and Posture, 2020, 80, 331-338.	0.6	13
31	Lower extremity gait kinematics outcomes after knee replacement demonstrate arthroplasty-specific differences between unicondylar and total knee arthroplasty: A pilot study. Gait and Posture, 2019, 73, 299-304.	0.6	14
32	Probabilistic structure of errors in forehand and backhand groundstrokes of advanced tennis players. International Journal of Performance Analysis in Sport, 2019, 19, 698-710.	0.5	6
33	Identifying generalised segmental acceleration patterns that contribute to ground reaction force features across different running tasks. Journal of Science and Medicine in Sport, 2019, 22, 1355-1360.	0.6	15
34	On the validity of statistical parametric mapping for nonuniformly and heterogeneously smooth one-dimensional biomechanical data. Journal of Biomechanics, 2019, 91, 114-123.	0.9	19
35	A systematic review on biomechanical characteristics of walking in children and adolescents with overweight/obesity: Possible implications for the development of musculoskeletal disorders. Obesity Reviews, 2019, 20, 1033-1044.	3.1	57
36	Match Playâ€“induced Changes in Landing Biomechanics with Special Focus on Fatigability. Medicine and Science in Sports and Exercise, 2019, 51, 1884-1894.	0.2	14

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37	Does stroke performance in amateur tennis players depend on functional power generating capacity?. Journal of Sports Medicine and Physical Fitness, 2019, 59, 760-766.	0.4	12
38	Is knee neuromuscular activity related to anterior cruciate ligament injury risk? A pilot study. Knee, 2019, 26, 40-51.	0.8	21
39	Smoothing can systematically bias small samples of one-dimensional biomechanical continua. Journal of Biomechanics, 2019, 82, 330-336.	0.9	6
40	Whole-body biomechanical load in running-based sports: The validity of estimating ground reaction forces from segmental accelerations. Journal of Science and Medicine in Sport, 2019, 22, 716-722.	0.6	22
41	Fatness and fitness in relation to functional movement quality in overweight and obese children. Journal of Sports Sciences, 2019, 37, 878-885.	1.0	21
42	Bayesian inverse kinematics vs. least-squares inverse kinematics in estimates of planar postures and rotations in the absence of soft tissue artifact. Journal of Biomechanics, 2019, 82, 324-329.	0.9	5
43	The implementation of inertial sensors for the assessment of temporal parameters of gait in the knee arthroplasty population. Clinical Biomechanics, 2018, 54, 22-27.	0.5	22
44	The Neuromuscular Determinants of Unilateral Jump Performance in Soccer Players Are Direction-Specific. International Journal of Sports Physiology and Performance, 2018, 13, 604-611.	1.1	20
45	Synthesis of Subject-Specific Human Balance Responses Using a Task-Level Neuromuscular Control Platform. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2018, 26, 865-873.	2.7	1
46	A force profile analysis comparison between functional data analysis, statistical parametric mapping and statistical non-parametric mapping in on-water single sculling. Journal of Science and Medicine in Sport, 2018, 21, 1100-1105.	0.6	37
47	A computational framework for estimating statistical power and planning hypothesis-driven experiments involving one-dimensional biomechanical continua. Journal of Biomechanics, 2018, 66, 159-164.	0.9	8
48	The feasibility of predicting ground reaction forces during running from a trunk accelerometry driven mass-spring-damper model. PeerJ, 2018, 6, e6105.	0.9	22
49	Patellar tendon properties distinguish elite from non-elite soccer players and are related to peak horizontal but not vertical power. European Journal of Applied Physiology, 2018, 118, 1737-1749.	1.2	9
50	Training Load Monitoring in Team Sports: A Novel Framework Separating Physiological and Biomechanical Load-Adaptation Pathways. Sports Medicine, 2017, 47, 2135-2142.	3.1	289
51	Can segmental model reductions quantify whole-body balance accurately during dynamic activities?. Gait and Posture, 2017, 56, 37-41.	0.6	6
52	ALLOMETRICALLY SCALED H:Q RATIOS: TIME TO SHARPEN OUR VISION CONCERNING STRENGTH RATIOS AS INJURY RISK FACTOR!. British Journal of Sports Medicine, 2017, 51, 376.1-376.	3.1	0
53	Unilateral jumps in different directions: a novel assessment of soccer-associated power?. Journal of Science and Medicine in Sport, 2017, 20, 1018-1023.	0.6	17
54	WHAT SEPARATES AN INDIVIDUAL AT RISK OF ACL INJURY? A FIRST STEP TOWARDS AN ACL-RISK MOVEMENT PASSPORT. British Journal of Sports Medicine, 2017, 51, 388.1-388.	3.1	1

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55	Correlation between an inertial and camera based system for the assessment of temporal parameters of gait in the knee arthroplasty population. Gait and Posture, 2017, 57, 280-281.	0.6	3
56	Mechanical Player Loadâ„¢ using trunk-mounted accelerometry in football: Is it a reliable, task- and player-specific observation?. Journal of Sports Sciences, 2017, 35, 1674-1681.	1.0	40
57	The Relationship Between Whole-Body External Loading and Body-Worn Accelerometry During Team-Sport Movements. International Journal of Sports Physiology and Performance, 2017, 12, 18-26.	1.1	73
58	Negative Influence of Motor Impairments on Upper Limb Movement Patterns in Children with Unilateral Cerebral Palsy. A Statistical Parametric Mapping Study. Frontiers in Human Neuroscience, 2017, 11, 482.	1.0	20
59	Mapping current research trends on neuromuscular risk factors of non-contact ACL injury. Physical Therapy in Sport, 2016, 22, 101-113.	0.8	10
60	Mapping current research trends on anterior cruciate ligament injury risk against the existing evidence: In vivo biomechanical risk factors. Clinical Biomechanics, 2016, 37, 34-43.	0.5	14
61	The probability of false positives in zero-dimensional analyses of one-dimensional kinematic, force and EMG trajectories. Journal of Biomechanics, 2016, 49, 1468-1476.	0.9	114
62	The Utility of a High-intensity Exercise Protocol to Prospectively Assess ACL Injury Risk. International Journal of Sports Medicine, 2016, 37, 125-133.	0.8	11
63	Can the natural turf pitch be viewed as a risk factor for injury within Association Football?. Journal of Science and Medicine in Sport, 2016, 19, 547-552.	0.6	19
64	Knee and Hip Joint Kinematics Predict Quadriceps and Hamstrings Neuromuscular Activation Patterns in Drop Jump Landings. PLoS ONE, 2016, 11, e0153737.	1.1	29
65	Region-of-interest analyses of one-dimensional biomechanical trajectories: bridging 0D and 1D theory, augmenting statistical power. PeerJ, 2016, 4, e2652.	0.9	107
66	Influence of balance surface on ankle stabilizing muscle activity in subjects with chronic ankle instability.. Journal of Rehabilitation Medicine, 2015, 47, 632-638.	0.8	27
67	Dynamic Neuromuscular Control of the Lower Limbs in Response to Unexpected Single-Planar versus Multi-Planar Support Perturbations in Young, Active Adults. PLoS ONE, 2015, 10, e0133147.	1.1	7
68	Effects of increased anteriorâ€“posterior voluntary sway frequency on mechanical and perceived postural stability. Human Movement Science, 2015, 39, 189-199.	0.6	7
69	Discriminating motion patterns of ACL reconstructed patients from healthy individuals. , 2015, , .		4
70	Kinematic Adaptations of Forward and Backward Walking on Land and in Water. Journal of Human Kinetics, 2015, 49, 15-24.	0.7	9
71	Can two-dimensional measured peak sagittal plane excursions during drop vertical jumps help identify three-dimensional measured joint moments?. Knee, 2015, 22, 73-79.	0.8	43
72	Asymmetry after Hamstring Injury in English Premier League: Issue Resolved, Or Perhaps Not?. International Journal of Sports Medicine, 2015, 36, 455-459.	0.8	4

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73	Multi-segment foot landing kinematics in subjects with chronic ankle instability. Clinical Biomechanics, 2015, 30, 585-592.	0.5	53
74	Lower Limb Landing Biomechanics in Subjects with Chronic Ankle Instability. Medicine and Science in Sports and Exercise, 2015, 47, 1225-1231.	0.2	26
75	Effect of Tape on Dynamic Postural Stability in Subjects with Chronic Ankle Instability. International Journal of Sports Medicine, 2015, 36, 321-326.	0.8	17
76	Zero- vs. one-dimensional, parametric vs. non-parametric, and confidence interval vs. hypothesis testing procedures in one-dimensional biomechanical trajectory analysis. Journal of Biomechanics, 2015, 48, 1277-1285.	0.9	232
77	Effects of treadmill versus overground soccer match simulations on biomechanical markers of anterior cruciate ligament injury risk in side cutting. Journal of Sports Sciences, 2015, 33, 1332-1341.	1.0	16
78	How reliable are knee kinematics and kinetics during side-cutting manoeuvres?. Gait and Posture, 2015, 41, 905-911.	0.6	29
79	Effect of a Home-based Balance Training Protocol on Dynamic Postural Control in Subjects with Chronic Ankle Instability. International Journal of Sports Medicine, 2015, 36, 596-602.	0.8	20
80	Two-way ANOVA for scalar trajectories, with experimental evidence of non-phasic interactions. Journal of Biomechanics, 2015, 48, 186-189.	0.9	23
81	Statistical Parametric Mapping (SPM) for alpha-based statistical analyses of multi-muscle EMG time-series. Journal of Electromyography and Kinesiology, 2015, 25, 14-19.	0.7	93
82	Impact of Knee Modeling Approach on Indicators and Classification of Anterior Cruciate Ligament Injury Risk. Medicine and Science in Sports and Exercise, 2014, 46, 1269-1276.	0.2	51
83	How Reliable Are Lower-Limb Kinematics and Kinetics during a Drop Vertical Jump?. Medicine and Science in Sports and Exercise, 2014, 46, 678-685.	0.2	48
84	Vector field statistics for objective center-of-pressure trajectory analysis during gait, with evidence of scalar sensitivity to small coordinate system rotations. Gait and Posture, 2014, 40, 255-258.	0.6	38
85	Foot orientation affects muscle activation levels of ankle stabilizers in a single-legged balance board protocol. Human Movement Science, 2014, 33, 419-431.	0.6	16
86	The role of proximal dynamic joint stability in the development of exertional medial tibial pain: a prospective study. British Journal of Sports Medicine, 2014, 48, 388-393.	3.1	24
87	The reliability and validity of the measurement of lateral trunk motion in two-dimensional video analysis during unipodal functional screening tests in elite female athletes. Physical Therapy in Sport, 2014, 15, 117-123.	0.8	71
88	Impact From Acl Deficiency On Dynamic Balance Mechanisms In Side-cutting Maneuvers During Simulated Match-play. Medicine and Science in Sports and Exercise, 2014, 46, 812.	0.2	0
89	Vector field statistical analysis of kinematic and force trajectories. Journal of Biomechanics, 2013, 46, 2394-2401.	0.9	462
90	Gait Kinematics of Subjects with Ankle Instability Using a Multisegmented Foot Model. Medicine and Science in Sports and Exercise, 2013, 45, 2129-2136.	0.2	57

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91	Postural Adjustments in Catching: On the Interplay between Segment Stabilization and Equilibrium Control. Motor Control, 2013, 17, 48-61.	0.3	3
92	Force-Controlled Balance Perturbations Associated with Falls in Older People: A Prospective Cohort Study. PLoS ONE, 2013, 8, e70981.	1.1	72
93	Implicit advance knowledge effects on the interplay between arm movements and postural adjustments in catching. Neuroscience Letters, 2012, 518, 117-121.	1.0	6
94	An evaluation of anatomical and functional knee axis definition in the context of side-cutting. Journal of Biomechanics, 2012, 45, 1941-1946.	0.9	27
95	The effect of running speed on knee mechanical loading in females during side cutting. Journal of Biomechanics, 2012, 45, 2444-2449.	0.9	107
96	Sensorimotor and neuropsychological correlates of force perturbations that induce stepping in older adults. Gait and Posture, 2012, 36, 356-360.	0.6	33
97	Solutions for representing the whole-body centre of mass in side cutting manoeuvres based on data that is typically available for lower limb kinematics. Gait and Posture, 2010, 31, 517-521.	0.6	68
98	Is energy expenditure taken into account in human sub-maximal jumping? â€“ A simulation study. Journal of Electromyography and Kinesiology, 2008, 18, 108-115.	0.7	12
99	The trajectory of the centre of pressure during barefoot running as a potential measure for foot function. Gait and Posture, 2008, 27, 669-675.	0.6	108
100	Effect of Forward Trunk Inclination on Joint Power Output in Vertical Jumping. Journal of Strength and Conditioning Research, 2008, 22, 708-714.	1.0	30
101	Kinematic response characteristics of the CAREN moving platform system for use in posture and balance research. Medical Engineering and Physics, 2007, 29, 629-635.	0.8	37
102	A functional foot type classification with cluster analysis based on plantar pressure distribution during jogging. Gait and Posture, 2006, 23, 339-347.	0.6	78
103	A method for manipulating a movable platform's axes of rotation: A novel use of the CAREN system. Gait and Posture, 2006, 24, 510-514.	0.6	12
104	The energetics and benefit of an arm swing in submaximal and maximal vertical jump performance. Journal of Sports Sciences, 2006, 24, 51-57.	1.0	32
105	Performing the vertical jump: Movement adaptations for submaximal jumping. Human Movement Science, 2004, 22, 713-727.	0.6	76
106	Understanding how an arm swing enhances performance in the vertical jump. Journal of Biomechanics, 2004, 37, 1929-1940.	0.9	230
107	The Maximal and Submaximal Vertical Jump: Implications for Strength and Conditioning. Journal of Strength and Conditioning Research, 2004, 18, 787.	1.0	51
108	Necessary precautions in measuring correct vertical jumping height by means of force plate measurements. Ergonomics, 2001, 44, 814-818.	1.1	56