Roozbeh Naemi

List of Publications by Year
in descending order

83	1,138	394390 19	454934 30
papers	citations	h-index	g-index

86	86	86	1033
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Quantifying lumbarâ€“pelvis coordination during gait using a modified vector coding technique. Journal of Biomechanics, 2014, 47, 1020-1026.	2.1	109
2	A new coordination pattern classification to assess gait kinematics when utilising a modified vector coding technique. Journal of Biomechanics, 2015, 48, 3506-3511.	2.1	58
3	Hydrodynamic glide efficiency in swimming. Journal of Science and Medicine in Sport, 2010, 13, 444-451.	1.3	53
4	Three-dimensional analysis of intracycle velocity fluctuations in frontcrawl swimming. Scandinavian Journal of Medicine and Science in Sports, 2010, 20, 128-135.	2.9	44
5	The effectiveness of footwear as an intervention to prevent or to reduce biomechanical risk factors associated with diabetic foot ulceration: A systematic review. Journal of Diabetes and Its Complications, 2013, 27, 391-400.	2.3	43
6	Finite element modelling of the foot for clinical application: A systematic review. Medical Engineering and Physics, 2017, 39, 1-11.	1.7	40
7	The relationship between the mechanical properties of heel-pad and common clinical measures associated with foot ulcers in patients with diabetes. Journal of Diabetes and Its Complications, 2014, 28, 488-493.	2.3	38
8	A method for subject-specific modelling and optimisation of the cushioning properties of insole materials used in diabetic footwear. Medical Engineering and Physics, 2015, 37, 531-538.	1.7	37
9	Can plantar soft tissue mechanics enhance prognosis of diabetic foot ulcer?. Diabetes Research and Clinical Practice, 2017, 126, 182-191.	2.8	36
10	Repeatability of WalkinSenseÂ® in shoe pressure measurement system: A preliminary study. Foot, 2012, 22, 35-39.	1.1	34
11	Comparison of modes of feedback on glide performance in swimming. Journal of Sports Sciences, 2012, 30, 43-52.	2.0	33
12	Multi-segment kinematic model to assess three-dimensional movement of the spine and back during gait. Prosthetics and Orthotics International, 2016, 40, 624-635.	1.0	29
13	Differences in the mechanical characteristics of plantar soft tissue between ulcerated and non-ulcerated foot. Journal of Diabetes and Its Complications, 2016, 30, 1293-1299.	2.3	27
14	Subject Specific Optimisation of the Stiffness of Footwear Material for Maximum Plantar Pressure Reduction. Annals of Biomedical Engineering, 2017, 45, 1929-1940.	2.5	27
15	A clinically applicable non-invasive method to quantitatively assess the visco-hyperelastic properties of human heel pad, implications for assessing the risk of mechanical trauma. Journal of the Mechanical Behavior of Biomedical Materials, 2017, 68, 287-295.	3.1	26
16	The relationship between arch height and foot length: Implications for size grading. Applied Ergonomics, 2017, 59, 243-250.	3.1	25
17	A â€œHydrokinematicâ€•Method of Measuring the Glide Efficiency of a Human Swimmer. Journal of Biomechanical Engineering, 2008, 130, 061016.	1.3	24
18	The key kinematic determinants of undulatory underwater swimming at maximal velocity. Journal of Sports Sciences, 2016, 34, 1036-1043.	2.0	22

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19	The Effectiveness of Footwear and Other Removable Off-loading Devices in the Treatment of Diabetic Foot Ulcers: A Systematic Review. Current Diabetes Reviews, 2014, 10, 215-230.	1.3	21
20	A Simulation of the Viscoelastic Behaviour of Heel Pad During Weight-Bearing Activities of Daily Living. Annals of Biomedical Engineering, 2017, 45, 2750-2761.	2.5	20
21	Predicting the risk of future diabetic foot ulcer occurrence: a prospective cohort study of patients with diabetes in Tanzania. BMJ Open Diabetes Research and Care, 2020, 8, e001122.	2.8	20
22	Assessment of lower leg muscle force distribution during isometric ankle dorsi and plantar flexion in patients with diabetes: a preliminary study. Journal of Diabetes and Its Complications, 2015, 29, 282-287.	2.3	18
23	Manufacturing and finite element assessment of a novel pressure reducing insole for Diabetic Neuropathic patients. Australasian Physical and Engineering Sciences in Medicine, 2015, 38, 63-70.	1.3	18
24	A mathematical method for quantifying in vivo mechanical behaviour of heel pad under dynamic load. Medical and Biological Engineering and Computing, 2016, 54, 341-350.	2.8	18
25	Improving data acquisition speed and accuracy in sport using neural networks. Journal of Sports Sciences, 2021, 39, 513-522.	2.0	18
26	The effects of sport-specific and minimalist footwear on the kinetics and kinematics of three netball-specific movements. Footwear Science, 2015, 7, 31-36.	2.1	17
27	The Role of Cutaneous Microcirculatory Responses in Tissue Injury, Inflammation and Repair at the Foot in Diabetes. Frontiers in Bioengineering and Biotechnology, 2021, 9, 732753.	4.1	17
28	Shear wave elastography can assess the in-vivo nonlinear mechanical behavior of heel-pad. Journal of Biomechanics, 2018, 80, 144-150.	2.1	16
29	Mathematical Models to Assess Footâ€“Ground Interaction. Medicine and Science in Sports and Exercise, 2013, 45, 1524-1533.	0.4	15
30	Diabetes Status is Associated With Plantar Soft Tissue Stiffness Measured Using Ultrasound Reverberant Shear Wave Elastography Approach. Journal of Diabetes Science and Technology, 2022, 16, 478-490.	2.2	14
31	Analysing patterns of coordination and patterns of control using novel data visualisation techniques in vector coding. Foot, 2020, 44, 101678.	1.1	13
32	Associations between changes in loading pattern, deformity, and internal stresses at the foot with hammer toe during walking; a finite element approach. Computers in Biology and Medicine, 2021, 135, 104598.	7.0	12
33	Hallux plantar flexor strength in people with diabetic neuropathy: Validation of a simple clinical test. Diabetes Research and Clinical Practice, 2018, 144, 1-9.	2.8	10
34	A mathematical model to investigate heat transfer in footwear during walking and jogging. Journal of Thermal Biology, 2021, 97, 102778.	2.5	10
35	Relationships Between Glide Efficiency and Swimmersâ€™ Size and Shape Characteristics. Journal of Applied Biomechanics, 2012, 28, 400-411.	0.8	9
36	Can a combination of lifestyle and clinical characteristics explain the presence of foot ulcer in patients with diabetes?. Journal of Diabetes and Its Complications, 2019, 33, 437-444.	2.3	9

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37	The relationship between hallux grip force and balance in people with diabetes. Gait and Posture, 2019, 70, 109-115.	1.4	9
38	The effect of three different toe props on plantar pressure and patient comfort. Journal of Foot and Ankle Research, 2012, 5, 22.	1.9	8
39	Influence of footwear designed to boost energy return on the kinetics and kinematics of running compared to conventional running shoes. Comparative Exercise Physiology, 2014, 10, 199-206.	0.6	8
40	Inter-individual similarities and variations in muscle forces acting on the ankle joint during gait. Gait and Posture, 2017, 58, 166-170.	1.4	8
41	A Synoptic Overview of Neurovascular Interactions in the Foot. Frontiers in Endocrinology, 2020, 11, 308.	3.5	8
42	Quantification of rear-foot, fore-foot coordination pattern during gait using a new classification. Footwear Science, 2015, 7, S32-S33.	2.1	7
43	EFFECTS OF FOOTWEAR VARIATIONS ON THREE-DIMENSIONAL KINEMATICS AND TIBIAL ACCELERATIONS OF SPECIFIC MOVEMENTS IN AMERICAN FOOTBALL. Journal of Mechanics in Medicine and Biology, 2017, 17, 1750026.	0.7	7
44	The effect of the use of a walkway and the choice of the foot on plantar pressure assessment when using pressure platforms. Foot, 2012, 22, 100-104.	1.1	6
45	Augmented feedback can change body shape to improve glide efficiency in swimming. Sports Biomechanics, 2021, , 1-20.	1.6	6
46	A systematic evaluation of cutaneous microcirculation in the foot using postâ€occlusive reactive hyperemia. Microcirculation, 2021, 28, e12692.	1.8	6
47	Spine and pelvis coordination variability in rowers with and without chronic low back pain during rowing. Journal of Biomechanics, 2021, 120, 110356.	2.1	6
48	An automated segmentation technique for the processing of foot ultrasound images. , 2013, , .		5
49	An MRI compatible loading device for the reconstruction of clinically relevant plantar pressure distributions and loading scenarios of the forefoot. Medical Engineering and Physics, 2014, 36, 1205-1211.	1.7	5
50	The effects of shoe temperature on the kinetics and kinematics of running. Footwear Science, 2015, 7, 173-180.	2.1	5
51	Localized pressure stimulation using turfâ€like structures can improve skin perfusion in the foot. Microcirculation, 2019, 26, e12543.	1.8	5
52	Validation of a non-invasive imaging photoplethysmography device to assess plantar skin perfusion, a comparison with laser speckle contrast analysis. Journal of Medical Engineering and Technology, 2021, 45, 170-176.	1.4	5
53	Shore hardness is a more representative measurement of bulk tissue biomechanics than of skin biomechanics.. Medical Engineering and Physics, 2022, 105, 103816.	1.7	5
54	Peak and average pressure correlations and their ratio at different plantar regions of the foot. Footwear Science, 2013, 5, S96-S98.	2.1	4

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55	Plantar Soft Tissue Characterization Using Reverberant Shear Wave Elastography: A Proof-of-Concept Study. Ultrasound in Medicine and Biology, 2022, 48, 35-46.	1.5	4
56	An Analytical Model to Predict Foot Sole Temperature: Implications to Insole Design for Physical Activity in Sport and Exercise. Applied Sciences (Switzerland), 2022, 12, 6806.	2.5	4
57	Do foot orthoses replicate the static longitudinal arch angle during midstance in walking?. Foot, 2011, 21, 129-132.	1.1	3
58	Development of a method for quantifying the midsole reaction model parameters. Computer Methods in Biomechanics and Biomedical Engineering, 2013, 16, 1273-1277.	1.6	3
59	Investigation into the kinetics and kinematics during running in the heelless shoe. Footwear Science, 2014, 6, 139-145.	2.1	3
60	Gait stability of diabetic patients is altered with the rigid rocker shoes. Clinical Biomechanics, 2019, 69, 197-204.	1.2	3
61	Development of Immediate Feedback Software for Optimising Glide Performance and Time of Initiating Post-Glide Actions (P56). , 0, , 291-300.		3
62	The accuracy of first metatarsophalangeal joint palpation guided injections. An arthrography cadaveric study. Foot & Ankle Surgery Techniques, Reports & Cases, 2022, 2, 100219.	0.1	3
63	THE INFLUENCE OF SLOW RECOVERY INSOLE ON PLANTAR PRESSURE AND CONTACT AREA DURING WALKING. Journal of Mechanics in Medicine and Biology, 2015, 15, 1540005.	0.7	2
64	Viscoelasticity in Foot-Ground Interaction. , 0, , .		2
65	A quantitative comparison of plantar soft tissue strainability distribution and homogeneity between ulcerated and non-ulcerated patients using ultrasound strain elastography. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2022, , 095441192210747.	1.8	2
66	Predicting the risk of amputation and death in patients with diabetic foot ulcer. A longâ€term prospective cohort study of patients in Tanzania. Endocrinology, Diabetes and Metabolism, 2022, , e00336.	2.4	2
67	Comments and Reply to: Foot Plantar Pressure Measurement System: A Review. Sensors 2012, 12, 9884-9912. Sensors, 2013, 13, 3527-3529.	3.8	1
68	The effect of temperature on the rebound characteristics of material combinations commonly used in diabetic insoles. Footwear Science, 2013, 5, S91-S93.	2.1	1
69	Coordination pattern between the forefoot and rearfoot during walking on an inclined surface. Footwear Science, 2017, 9, S120-S122.	2.1	1
70	Rocker outsole shoes and margin of stability during walking: A preliminary study. , 2017, , .		1
71	The role of tissue biomechanics in improving the clinical management of diabetic foot ulcers. , 2021, , 123-141.		1
72	Advancements in data analysis and visualisation techniques to support multiple single-subject analyses: an assessment of movement coordination and coordination variability. Studies in Health Technology and Informatics, 2021, 280, 146-149.	0.3	1

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73	A Single Center Study of Prescribing and Treatment Outcomes of Patients with Chronic Myeloid Leukemia. International Journal of Hematology-Oncology and Stem Cell Research, 2020, 14, 11-18.	0.3	1
74	A Novel Method for Field Measurement of Ankle Joint Stiffness in Hopping. Applied Sciences (Switzerland), 2021, 11, 12140.	2.5	1
75	Comparison of design features in diabetic footwear and their effect on plantar pressure. Footwear Science, 2013, 5, S67-S69.	2.1	0
76	Patellofemoral kinetics during running in heelless and conventional running shoes. Footwear Science, 2015, 7, S111-S112.	2.1	0
77	Numerical investigation of the optimum cushioning properties of insole materials: the effect of subject-specific geometry and loading. Footwear Science, 2015, 7, S136-S137.	2.1	0
78	The effect of wearing a diabetic sandal in altering standing balance parameters in people with diabetes and neuropathy. Footwear Science, 2015, 7, S34-S35.	2.1	0
79	Comparison between standard solid and liquid models to predict time dependent behavior of heel pad. Foot and Ankle Surgery, 2016, 22, 41.	1.7	0
80	The influence of rocker outsole design on the ground reaction force alignment during walking. Footwear Science, 2017, 9, S108-S109.	2.1	0
81	Development of Immediate Feedback Software for Optimising Glide Performance and Time of Initiating Post-Glide Actions (P56). , 2009, , 291-300.		0
82	A Combined Technique for Randomisation of a Small Number of Participants with a Variety of Covariates into Treatment and Control Groups in Randomised Controlled Trials. Journal of Clinical Trials, 2014, 04, .	0.1	0
83	A Single Center Study of Prescribing and Treatment Outcomes of Patients with Chronic Myeloid Leukemia. International Journal of Hematology-Oncology and Stem Cell Research, 0, , .	0.3	0