

# Roozbeh Naemi

## 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.

78 papers	732 citations	16 h-index	24 g-index
86 ext. papers	931 ext. citations	2.5 avg, IF	4.4 L-index

#	Paper	IF	Citations
78	Plantar Soft Tissue Characterization Using Reverberant Shear Wave Elastography: A Proof-of-Concept Study. <i>Ultrasound in Medicine and Biology</i> , <b>2022</b> , 48, 35-46	3.5	0
77	A quantitative comparison of plantar soft tissue strainability distribution and homogeneity between ulcerated and non-ulcerated patients using ultrasound strain elastography.. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , <b>2022</b> , 9544119221074786	1.7	0
76	Predicting the risk of amputation and death in patients with diabetic foot ulcer. A long-term prospective cohort study of patients in Tanzania.. <i>Endocrinology, Diabetes and Metabolism</i> , <b>2022</b> , e00336	2.7	1
75	Shore hardness is a more representative measurement of bulk tissue biomechanics than of skin biomechanics.. <i>Medical Engineering and Physics</i> , <b>2022</b> , 103816	2.4	0
74	Validation of a non-invasive imaging photoplethysmography device to assess plantar skin perfusion, a comparison with laser speckle contrast analysis. <i>Journal of Medical Engineering and Technology</i> , <b>2021</b> , 45, 170-176	1.8	1
73	Augmented feedback can change body shape to improve glide efficiency in swimming. <i>Sports Biomechanics</i> , <b>2021</b> , 1-20	2.2	1
72	A systematic evaluation of cutaneous microcirculation in the foot using post-occlusive reactive hyperemia. <i>Microcirculation</i> , <b>2021</b> , 28, e12692	2.9	1
71	Spine and pelvis coordination variability in rowers with and without chronic low back pain during rowing. <i>Journal of Biomechanics</i> , <b>2021</b> , 120, 110356	2.9	1
70	Advancements in data analysis and visualisation techniques to support multiple single-subject analyses: an assessment of movement coordination and coordination variability. <i>Studies in Health Technology and Informatics</i> , <b>2021</b> , 280, 146-149	0.5	0
69	Improving data acquisition speed and accuracy in sport using neural networks. <i>Journal of Sports Sciences</i> , <b>2021</b> , 39, 513-522	3.6	9
68	A mathematical model to investigate heat transfer in footwear during walking and jogging. <i>Journal of Thermal Biology</i> , <b>2021</b> , 97, 102778	2.9	2
67	The role of tissue biomechanics in improving the clinical management of diabetic foot ulcers <b>2021</b> , 123-141		0
66	Associations between changes in loading pattern, deformity, and internal stresses at the foot with hammer toe during walking; a finite element approach. <i>Computers in Biology and Medicine</i> , <b>2021</b> , 135, 104598	7	1
65	The Role of Cutaneous Microcirculatory Responses in Tissue Injury, Inflammation and Repair at the Foot in Diabetes. <i>Frontiers in Bioengineering and Biotechnology</i> , <b>2021</b> , 9, 732753	5.8	1
64	A Novel Method for Field Measurement of Ankle Joint Stiffness in Hopping. <i>Applied Sciences (Switzerland)</i> , <b>2021</b> , 11, 12140	2.6	0
63	Predicting the risk of future diabetic foot ulcer occurrence: a prospective cohort study of patients with diabetes in Tanzania. <i>BMJ Open Diabetes Research and Care</i> , <b>2020</b> , 8,	4.5	9
62	A Synoptic Overview of Neurovascular Interactions in the Foot. <i>Frontiers in Endocrinology</i> , <b>2020</b> , 11, 308	5.7	5

61	Analysing patterns of coordination and patterns of control using novel data visualisation techniques in vector coding. <i>Foot</i> , <b>2020</b> , 44, 101678	1.3	7
60	A Single Center Study of Prescribing and Treatment Outcomes of Patients with Chronic Myeloid Leukemia. <i>International Journal of Hematology-Oncology and Stem Cell Research</i> , <b>2020</b> , 14, 11-18	0.5	1
59	Diabetes Status is Associated With Plantar Soft Tissue Stiffness Measured Using Ultrasound Reverberant Shear Wave Elastography Approach. <i>Journal of Diabetes Science and Technology</i> , <b>2020</b> , 1932296820965259	1.1	1
58	Can a combination of lifestyle and clinical characteristics explain the presence of foot ulcer in patients with diabetes?. <i>Journal of Diabetes and Its Complications</i> , <b>2019</b> , 33, 437-444	3.2	4
57	The relationship between hallux grip force and balance in people with diabetes. <i>Gait and Posture</i> , <b>2019</b> , 70, 109-115	2.6	3
56	Localized pressure stimulation using turf-like structures can improve skin perfusion in the foot. <i>Microcirculation</i> , <b>2019</b> , 26, e12543	2.9	3
55	Gait stability of diabetic patients is altered with the rigid rocker shoes. <i>Clinical Biomechanics</i> , <b>2019</b> , 69, 197-204	2.2	3
54	Hallux plantar flexor strength in people with diabetic neuropathy: Validation of a simple clinical test. <i>Diabetes Research and Clinical Practice</i> , <b>2018</b> , 144, 1-9	7.4	4
53	Shear wave elastography can assess the in-vivo nonlinear mechanical behavior of heel-pad. <i>Journal of Biomechanics</i> , <b>2018</b> , 80, 144-150	2.9	9
52	EFFECTS OF FOOTWEAR VARIATIONS ON THREE-DIMENSIONAL KINEMATICS AND TIBIAL ACCELERATIONS OF SPECIFIC MOVEMENTS IN AMERICAN FOOTBALL. <i>Journal of Mechanics in Medicine and Biology</i> , <b>2017</b> , 17, 1750026	0.7	5
51	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. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , <b>2017</b> , 68, 287-295	4.1	18
50	Can plantar soft tissue mechanics enhance prognosis of diabetic foot ulcer?. <i>Diabetes Research and Clinical Practice</i> , <b>2017</b> , 126, 182-191	7.4	25
49	Subject Specific Optimisation of the Stiffness of Footwear Material for Maximum Plantar Pressure Reduction. <i>Annals of Biomedical Engineering</i> , <b>2017</b> , 45, 1929-1940	4.7	17
48	The influence of rocker outsole design on the ground reaction force alignment during walking. <i>Footwear Science</i> , <b>2017</b> , 9, S108-S109	1.4	
47	A Simulation of the Viscoelastic Behaviour of Heel Pad During Weight-Bearing Activities of Daily Living. <i>Annals of Biomedical Engineering</i> , <b>2017</b> , 45, 2750-2761	4.7	14
46	Inter-individual similarities and variations in muscle forces acting on the ankle joint during gait. <i>Gait and Posture</i> , <b>2017</b> , 58, 166-170	2.6	5
45	Coordination pattern between the forefoot and rearfoot during walking on an inclined surface. <i>Footwear Science</i> , <b>2017</b> , 9, S120-S122	1.4	1
44	Finite element modelling of the foot for clinical application: A systematic review. <i>Medical Engineering and Physics</i> , <b>2017</b> , 39, 1-11	2.4	27

43	The relationship between arch height and foot length: Implications for size grading. <i>Applied Ergonomics</i> , <b>2017</b> , 59, 243-250	4.2	12
42	Rocker outsole shoes and margin of stability during walking: A preliminary study <b>2017</b> ,		1
41	The key kinematic determinants of undulatory underwater swimming at maximal velocity. <i>Journal of Sports Sciences</i> , <b>2016</b> , 34, 1036-43	3.6	11
40	A mathematical method for quantifying in vivo mechanical behaviour of heel pad under dynamic load. <i>Medical and Biological Engineering and Computing</i> , <b>2016</b> , 54, 341-50	3.1	13
39	Viscoelasticity in Foot-Ground Interaction <b>2016</b> ,		1
38	Differences in the mechanical characteristics of plantar soft tissue between ulcerated and non-ulcerated foot. <i>Journal of Diabetes and Its Complications</i> , <b>2016</b> , 30, 1293-9	3.2	21
37	Multi-segment kinematic model to assess three-dimensional movement of the spine and back during gait. <i>Prosthetics and Orthotics International</i> , <b>2016</b> , 40, 624-35	1.5	18
36	Numerical investigation of the optimum cushioning properties of insole materials: the effect of subject-specific geometry and loading. <i>Footwear Science</i> , <b>2015</b> , 7, S136-S137	1.4	
35	THE INFLUENCE OF SLOW RECOVERY INSOLE ON PLANTAR PRESSURE AND CONTACT AREA DURING WALKING. <i>Journal of Mechanics in Medicine and Biology</i> , <b>2015</b> , 15, 1540005	0.7	0
34	A method for subject-specific modelling and optimisation of the cushioning properties of insole materials used in diabetic footwear. <i>Medical Engineering and Physics</i> , <b>2015</b> , 37, 531-8	2.4	23
33	The effects of shoe temperature on the kinetics and kinematics of running. <i>Footwear Science</i> , <b>2015</b> , 7, 173-180	1.4	3
32	The effect of wearing a diabetic sandal in altering standing balance parameters in people with diabetes and neuropathy. <i>Footwear Science</i> , <b>2015</b> , 7, S34-S35	1.4	
31	A new coordination pattern classification to assess gait kinematics when utilising a modified vector coding technique. <i>Journal of Biomechanics</i> , <b>2015</b> , 48, 3506-11	2.9	40
30	Manufacturing and finite element assessment of a novel pressure reducing insole for Diabetic Neuropathic patients. <i>Australasian Physical and Engineering Sciences in Medicine</i> , <b>2015</b> , 38, 63-70	1.9	12
29	Patellofemoral kinetics during running in heelless and conventional running shoes. <i>Footwear Science</i> , <b>2015</b> , 7, S111-S112	1.4	
28	Quantification of rear-foot, fore-foot coordination pattern during gait using a new classification. <i>Footwear Science</i> , <b>2015</b> , 7, S32-S33	1.4	6
27	Assessment of lower leg muscle force distribution during isometric ankle dorsi and plantar flexion in patients with diabetes: a preliminary study. <i>Journal of Diabetes and Its Complications</i> , <b>2015</b> , 29, 282-7	3.2	13
26	The effects of sport-specific and minimalist footwear on the kinetics and kinematics of three netball-specific movements. <i>Footwear Science</i> , <b>2015</b> , 7, 31-36	1.4	12

25	An MRI compatible loading device for the reconstruction of clinically relevant plantar pressure distributions and loading scenarios of the forefoot. <i>Medical Engineering and Physics</i> , <b>2014</b> , 36, 1205-11	2.4	4
24	The relationship between the mechanical properties of heel-pad and common clinical measures associated with foot ulcers in patients with diabetes. <i>Journal of Diabetes and Its Complications</i> , <b>2014</b> , 28, 488-93	3.2	30
23	Influence of footwear designed to boost energy return on the kinetics and kinematics of running compared to conventional running shoes. <i>Comparative Exercise Physiology</i> , <b>2014</b> , 10, 199-206	0.7	4
22	Investigation into the kinetics and kinematics during running in the heelless shoe. <i>Footwear Science</i> , <b>2014</b> , 6, 139-145	1.4	3
21	Quantifying lumbar-pelvis coordination during gait using a modified vector coding technique. <i>Journal of Biomechanics</i> , <b>2014</b> , 47, 1020-6	2.9	82
20	The effectiveness of footwear and other removable off-loading devices in the treatment of diabetic foot ulcers: a systematic review. <i>Current Diabetes Reviews</i> , <b>2014</b> , 10, 215-30	2.7	15
19	An automated segmentation technique for the processing of foot ultrasound images <b>2013</b> ,		4
18	The effectiveness of footwear as an intervention to prevent or to reduce biomechanical risk factors associated with diabetic foot ulceration: a systematic review. <i>Journal of Diabetes and Its Complications</i> , <b>2013</b> , 27, 391-400	3.2	30
17	Comments and reply to: Foot plantar pressure measurement system: a review. <i>Sensors</i> 2012, 12, 9884-9912. <i>Sensors</i> , <b>2013</b> , 13, 3527-8; discussion 3528-9	3.8	1
16	The effect of temperature on the rebound characteristics of material combinations commonly used in diabetic insoles. <i>Footwear Science</i> , <b>2013</b> , 5, S91-S93	1.4	
15	Peak and average pressure correlations and their ratio at different plantar regions of the foot. <i>Footwear Science</i> , <b>2013</b> , 5, S96-S98	1.4	0
14	Development of a method for quantifying the midsole reaction model parameters. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , <b>2013</b> , 16, 1273-7	2.1	2
13	Comparison of design features in diabetic footwear and their effect on plantar pressure. <i>Footwear Science</i> , <b>2013</b> , 5, S67-S69	1.4	
12	Mathematical models to assess foot-ground interaction: an overview. <i>Medicine and Science in Sports and Exercise</i> , <b>2013</b> , 45, 1524-33	1.2	12
11	Relationships between glide efficiency and swimmers' size and shape characteristics. <i>Journal of Applied Biomechanics</i> , <b>2012</b> , 28, 400-11	1.2	6
10	The effect of three different toe props on plantar pressure and patient comfort. <i>Journal of Foot and Ankle Research</i> , <b>2012</b> , 5, 22	3.2	6
9	Comparison of modes of feedback on glide performance in swimming. <i>Journal of Sports Sciences</i> , <b>2012</b> , 30, 43-52	3.6	23
8	Repeatability of WalkinSense <sup>®</sup> in shoe pressure measurement system: A preliminary study. <i>Foot</i> , <b>2012</b> , 22, 35-9	1.3	26

7	The effect of the use of a walkway and the choice of the foot on plantar pressure assessment when using pressure platforms. <i>Foot</i> , <b>2012</b> , 22, 100-4	1.3	5
6	Do foot orthoses replicate the static longitudinal arch angle during midstance in walking?. <i>Foot</i> , <b>2011</b> , 21, 129-32	1.3	3
5	Three-dimensional analysis of intracycle velocity fluctuations in frontcrawl swimming. <i>Scandinavian Journal of Medicine and Science in Sports</i> , <b>2010</b> , 20, 128-35	4.6	35
4	Hydrodynamic glide efficiency in swimming. <i>Journal of Science and Medicine in Sport</i> , <b>2010</b> , 13, 444-51	4.4	46
3	Development of Immediate Feedback Software for Optimising Glide Performance and Time of Initiating Post-Glide Actions (P56) <b>2009</b> , 291-300		
2	A "hydrokinematic" method of measuring the glide efficiency of a human swimmer. <i>Journal of Biomechanical Engineering</i> , <b>2008</b> , 130, 061016	2.1	21
1	Development of Immediate Feedback Software for Optimising Glide Performance and Time of Initiating Post-Glide Actions (P56) 291-300		3