

Yan Wang

List of Publications by Citations

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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.

79
papers

2,300
citations

26
h-index

46
g-index

82
ext. papers

2,951
ext. citations

3.6
avg. IF

5.15
L-index

#	Paper	IF	Citations
79	Three-dimensional finite element analysis of the foot during standing--a material sensitivity study. <i>Journal of Biomechanics</i> , 2005 , 38, 1045-54	2.9	293
78	Effect of Achilles tendon loading on plantar fascia tension in the standing foot. <i>Clinical Biomechanics</i> , 2006 , 21, 194-203	2.2	155
77	A 3-dimensional finite element model of the human foot and ankle for insole design. <i>Archives of Physical Medicine and Rehabilitation</i> , 2005 , 86, 353-8	2.8	127
76	Effects of plantar fascia stiffness on the biomechanical responses of the ankle-foot complex. <i>Clinical Biomechanics</i> , 2004 , 19, 839-46	2.2	123
75	Parametric design of pressure-relieving foot orthosis using statistics-based finite element method. <i>Medical Engineering and Physics</i> , 2008 , 30, 269-77	2.4	120
74	Development of a finite element model of female foot for high-heeled shoe design. <i>Clinical Biomechanics</i> , 2008 , 23 Suppl 1, S31-8	2.2	95
73	Consequences of partial and total plantar fascia release: a finite element study. <i>Foot and Ankle International</i> , 2006 , 27, 125-32	3.3	83
72	Wavelet analysis of cerebral oxygenation signal measured by near infrared spectroscopy in subjects with cerebral infarction. <i>Microvascular Research</i> , 2010 , 80, 142-7	3.7	82
71	Finite element modelling of a residual lower-limb in a prosthetic socket: a survey of the development in the first decade. <i>Medical Engineering and Physics</i> , 1998 , 20, 360-73	2.4	77
70	Computational Models of the Foot and Ankle for Pathomechanics and Clinical Applications: A Review. <i>Annals of Biomedical Engineering</i> , 2016 , 44, 213-21	4.7	51
69	Wavelet coherence analysis of spontaneous oscillations in cerebral tissue oxyhemoglobin concentrations and arterial blood pressure in elderly subjects. <i>Microvascular Research</i> , 2014 , 93, 14-20	3.7	50
68	Age-related changes in spontaneous oscillations assessed by wavelet transform of cerebral oxygenation and arterial blood pressure signals. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2013 , 33, 692-9	7.3	44
67	Finite Element Analysis of Foot and Ankle Impact Injury: Risk Evaluation of Calcaneus and Talus Fracture. <i>PLoS ONE</i> , 2016 , 11, e0154435	3.7	42
66	Wavelet coherence analysis of prefrontal oxygenation signals in elderly subjects with hypertension. <i>Physiological Measurement</i> , 2014 , 35, 777-91	2.9	41
65	Cerebral autoregulation in response to posture change in elderly subjects-assessment by wavelet phase coherence analysis of cerebral tissue oxyhemoglobin concentrations and arterial blood pressure signals. <i>Behavioural Brain Research</i> , 2015 , 278, 330-6	3.4	37
64	Biomechanics of first ray hypermobility: an investigation on joint force during walking using finite element analysis. <i>Medical Engineering and Physics</i> , 2014 , 36, 1388-93	2.4	36
63	Assessment of cerebral oxygenation during prolonged simulated driving using near infrared spectroscopy: its implications for fatigue development. <i>European Journal of Applied Physiology</i> , 2009 , 107, 281-7	3.4	36

62	Functional restoration and risk of non-union of the first metatarsocuneiform arthrodesis for hallux valgus: A finite element approach. <i>Journal of Biomechanics</i> , 2015 , 48, 3142-8	2.9	35
61	Biomechanical simulation of high-heeled shoe donning and walking. <i>Journal of Biomechanics</i> , 2013 , 46, 2067-74	2.9	31
60	Effects of Ankle Arthrodesis on Biomechanical Performance of the Entire Foot. <i>PLoS ONE</i> , 2015 , 10, e0134340	3.7	31
59	Spectral analysis of near-infrared spectroscopy signals measured from prefrontal lobe in subjects at risk for stroke. <i>Medical Physics</i> , 2012 , 39, 2179-85	4.4	31
58	Finite element simulation on posterior tibial tendinopathy: Load transfer alteration and implications to the onset of pes planus. <i>Clinical Biomechanics</i> , 2018 , 51, 10-16	2.2	30
57	Posture-related changes in brain functional connectivity as assessed by wavelet phase coherence of NIRS signals in elderly subjects. <i>Behavioural Brain Research</i> , 2016 , 312, 238-45	3.4	29
56	Foot arch deformation and plantar fascia loading during running with rearfoot strike and forefoot strike: A dynamic finite element analysis. <i>Journal of Biomechanics</i> , 2019 , 83, 260-272	2.9	28
55	Current methods in computer-aided engineering for footwear design. <i>Footwear Science</i> , 2009 , 1, 31-46	1.4	27
54	Biomechanics of fencing sport: A scoping review. <i>PLoS ONE</i> , 2017 , 12, e0171578	3.7	27
53	Finite element analysis of biomechanical effects of total ankle arthroplasty on the foot. <i>Journal of Orthopaedic Translation</i> , 2018 , 12, 55-65	4.2	26
52	Frequency-specific functional connectivity revealed by wavelet-based coherence analysis in elderly subjects with cerebral infarction using NIRS method. <i>Medical Physics</i> , 2015 , 42, 5391-403	4.4	23
51	Biomechanical study of tarsometatarsal joint fusion using finite element analysis. <i>Medical Engineering and Physics</i> , 2014 , 36, 1394-400	2.4	22
50	Functional connectivity analysis of distracted drivers based on the wavelet phase coherence of functional near-infrared spectroscopy signals. <i>PLoS ONE</i> , 2017 , 12, e0188329	3.7	21
49	The influence of high-heeled shoes on strain and tension force of the anterior talofibular ligament and plantar fascia during balanced standing and walking. <i>Medical Engineering and Physics</i> , 2016 , 38, 1152-61	2.4	21
48	Age-related alterations in phase synchronization of oxyhemoglobin concentration changes in prefrontal tissues as measured by near-infrared spectroscopy signals. <i>Microvascular Research</i> , 2016 , 103, 19-25	3.7	21
47	Finite element analysis of locking plate and two types of intramedullary nails for treating mid-shaft clavicle fractures. <i>Injury</i> , 2016 , 47, 1618-23	2.5	21
46	Immediate Effects of Medially Posted Insoles on Lower Limb Joint Contact Forces in Adult Acquired Flatfoot: A Pilot Study. <i>International Journal of Environmental Research and Public Health</i> , 2020 , 17,	4.6	20
45	Wavelet coherence analysis of prefrontal tissue oxyhaemoglobin signals as measured using near-infrared spectroscopy in elderly subjects with cerebral infarction. <i>Microvascular Research</i> , 2014 , 95, 108-15	3.7	17

44	Biomechanical response of the musculoskeletal system to whole body vibration using a seated driver model. <i>International Journal of Industrial Ergonomics</i> , 2015 , 45, 91-97	2.9	17
43	Biomechanical consequences of subtalar joint arthroereisis in treating posterior tibial tendon dysfunction: a theoretical analysis using finite element analysis. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2017 , 20, 1525-1532	2.1	16
42	The application of 3D-printed transparent facemask for facial scar management and its biomechanical rationale. <i>Burns</i> , 2018 , 44, 453-461	2.3	16
41	Sleeping mattress determinants and evaluation: a biomechanical review and critique. <i>PeerJ</i> , 2019 , 7, e6364	3.1	16
40	Assessment of cerebral oxygenation oscillations in subjects with hypertension. <i>Microvascular Research</i> , 2013 , 88, 32-41	3.7	16
39	Effects of Sleep Deprivation on Phase Synchronization as Assessed by Wavelet Phase Coherence Analysis of Prefrontal Tissue Oxyhemoglobin Signals. <i>PLoS ONE</i> , 2017 , 12, e0169279	3.7	16
38	A Review of the Application of Additive Manufacturing in Prosthetic and Orthotic Clinics from a Biomechanical Perspective. <i>Engineering</i> , 2020 , 6, 1258-1266	9.7	16
37	Finite Element Analysis of Generalized Ligament Laxity on the Deterioration of Hallux Valgus Deformity (Bunion). <i>Frontiers in Bioengineering and Biotechnology</i> , 2020 , 8, 571192	5.8	15
36	Biomechanical comparison of locking plate and crossing metallic and absorbable screws fixations for intra-articular calcaneal fractures. <i>Science China Life Sciences</i> , 2016 , 59, 958-64	8.5	15
35	Prediction on the plantar fascia strain offload upon Fascia taping and Low-Dye taping during running. <i>Journal of Orthopaedic Translation</i> , 2020 , 20, 113-121	4.2	14
34	Correlation analysis between prefrontal oxygenation oscillations and cerebral artery hemodynamics in humans. <i>Microvascular Research</i> , 2011 , 82, 304-10	3.7	13
33	Tai Chi Chuan exercise related change in brain function as assessed by functional near-infrared spectroscopy. <i>Scientific Reports</i> , 2019 , 9, 13198	4.9	12
32	Wavelet analysis of sacral tissue oxygenation oscillations by near-infrared spectroscopy in persons with spinal cord injury. <i>Microvascular Research</i> , 2011 , 81, 81-7	3.7	12
31	Effect of pillow height on the biomechanics of the head-neck complex: investigation of the cranio-cervical pressure and cervical spine alignment. <i>PeerJ</i> , 2016 , 4, e2397	3.1	12
30	Lower limb muscle co-contraction and joint loading of flip-flops walking in male wearers. <i>PLoS ONE</i> , 2018 , 13, e0193653	3.7	11
29	Ultrasound elastographic assessment of plantar fascia in runners using rearfoot strike and forefoot strike. <i>Journal of Biomechanics</i> , 2019 , 89, 65-71	2.9	10
28	Analysis of compression/release stabilized transfemoral prosthetic socket by finite element modelling method. <i>Medical Engineering and Physics</i> , 2020 , 83, 123-129	2.4	10
27	Effective Connectivity in Response to Posture Changes in Elderly Subjects as Assessed Using Functional Near-Infrared Spectroscopy. <i>Frontiers in Human Neuroscience</i> , 2018 , 12, 98	3.3	10

26	Biomechanical comparison of modified Calcanail system with plating fixation in intra-articular calcaneal fracture: A finite element analysis. <i>Medical Engineering and Physics</i> , 2019 , 70, 55-61	2.4	8
25	Spectral analysis of cerebral oxygenation responses to seated whole-body vibration in healthy men. <i>International Journal of Industrial Ergonomics</i> , 2012 , 42, 341-346	2.9	8
24	An in vitro and finite element study of load redistribution in the midfoot. <i>Science China Life Sciences</i> , 2014 , 57, 1191-6	8.5	8
23	Wavelet analysis of lumbar muscle oxygenation signals during whole-body vibration: implications for the development of localized muscle fatigue. <i>European Journal of Applied Physiology</i> , 2012 , 112, 3109-17	3.47	8
22	Changes in segment coordination variability and the impacts of the lower limb across running mileages in half marathons: Implications for running injuries. <i>Journal of Sport and Health Science</i> , 2020 , 11, 67-67	8.2	8
21	Influence of arch support heights on the internal foot mechanics of flatfoot during walking: A muscle-driven finite element analysis. <i>Computers in Biology and Medicine</i> , 2021 , 132, 104355	7	8
20	An instrument for methodological quality assessment of single-subject finite element analysis used in computational orthopaedics. <i>Medicine in Novel Technology and Devices</i> , 2021 , 11, 100067	2.1	6
19	Total ankle arthroplasty and ankle arthrodesis affect the biomechanics of the inner foot differently. <i>Scientific Reports</i> , 2019 , 9, 13334	4.9	5
18	Finite element analysis of the valgus knee joint of an obese child. <i>BioMedical Engineering OnLine</i> , 2016 , 15, 158	4.1	5
17	Extrinsic foot muscle forces and joint contact forces in flexible flatfoot adult with foot orthosis: A parametric study of tibialis posterior muscle weakness. <i>Gait and Posture</i> , 2021 , 88, 54-59	2.6	5
16	Effects of Upper-Limb, Lower-Limb, and Full-Body Compression Garments on Full Body Kinematics and Free-Throw Accuracy in Basketball Players. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 3504	2.6	4
15	Biomechanical analysis of minimally invasive crossing screw fixation for calcaneal fractures: Implications to early weight-bearing rehabilitation. <i>Clinical Biomechanics</i> , 2020 , 80, 105143	2.2	4
14	Exercise-Induced Hemodynamic Changes in Muscle Tissue: Implication of Muscle Fatigue. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 3512	2.6	4
13	Computational models of flatfoot with three-dimensional fascia and bulk soft tissue interaction for orthosis design. <i>Medicine in Novel Technology and Devices</i> , 2021 , 9, 100050	2.1	4
12	Effect of Dropping Height on the Forces of Lower Extremity Joints and Muscles during Landing: A Musculoskeletal Modeling. <i>Journal of Healthcare Engineering</i> , 2018 , 2018, 2632603	3.7	3
11	Finite element analysis of subtalar joint arthroereisis on adult-acquired flexible flatfoot deformity using customised sinus tarsi implant. <i>Journal of Orthopaedic Translation</i> , 2021 , 27, 139-145	4.2	3
10	Fracture mapping of complex intra-articular calcaneal fractures. <i>Annals of Translational Medicine</i> , 2021 , 9, 333	3.2	3
9	Joint contact force and movement deceleration among badminton forward lunges: a musculoskeletal modelling study. <i>Sports Biomechanics</i> , 2020 , 1-13	2.2	2

8	Biomechanical comparison among five mid/hindfoot arthrodeses procedures in treating flatfoot using a musculoskeletal multibody driven finite element model. <i>Computer Methods and Programs in Biomedicine</i> , 2021 , 211, 106408	6.9	2
7	A Three-Dimensional Printed Foot Orthosis for Flexible Flatfoot: An Exploratory Biomechanical Study on Arch Support Reinforcement and Undercut. <i>Materials</i> , 2021 , 14,	3.5	1
6	Different Design Feature Combinations of Flatfoot Orthosis on Plantar Fascia Strain and Plantar Pressure: A Muscle-Driven Finite Element Analysis With Taguchi Method.. <i>Frontiers in Bioengineering and Biotechnology</i> , 2022 , 10, 853085	5.8	1
5	Identifying Fatigue Indicators Using Gait Variability Measures: A Longitudinal Study on Elderly Brisk Walking. <i>Sensors</i> , 2020 , 20,	3.8	0
4	Effects of Attrition Shoes on Kinematics and Kinetics of Lower Limb Joints During Walking.. <i>Frontiers in Bioengineering and Biotechnology</i> , 2022 , 10, 824297	5.8	0
3	Non-amputated limb muscle coordination of unilateral transfemoral amputees. <i>Journal of Biomechanics</i> , 2021 , 115, 110155	2.9	0
2	Biomechanical Analysis of a Novel Double-Point Fixation Method for Displaced Intra-Articular Calcaneal Fractures.. <i>Frontiers in Bioengineering and Biotechnology</i> , 2022 , 10, 791554	5.8	0
1	A half marathon shifts the mediolateral force distribution at the tibiofemoral joint. <i>European Journal of Sport Science</i> , 2021 , 1-8	3.9	