# Ming Zhang

#### 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.

190 papers 4,632 citations

36 h-index

58 g-index

205 ext. papers

5,651 ext. citations

3.4 avg, IF

5.77 L-index

#	Paper	IF	Citations
190	Three-dimensional finite element analysis of the foot during standinga material sensitivity study.  Journal of Biomechanics, 2005, 38, 1045-54	2.9	293
189	Estimating the effective Young's modulus of soft tissues from indentation testsnonlinear finite element analysis of effects of friction and large deformation. <i>Medical Engineering and Physics</i> , <b>1997</b> , 19, 512-7	2.4	187
188	Effect of Achilles tendon loading on plantar fascia tension in the standing foot. <i>Clinical Biomechanics</i> , <b>2006</b> , 21, 194-203	2.2	155
187	A 3-dimensional finite element model of the human foot and ankle for insole design. <i>Archives of Physical Medicine and Rehabilitation</i> , <b>2005</b> , 86, 353-8	2.8	127
186	Effects of plantar fascia stiffness on the biomechanical responses of the ankle-foot complex. <i>Clinical Biomechanics</i> , <b>2004</b> , 19, 839-46	2.2	123
185	Parametric design of pressure-relieving foot orthosis using statistics-based finite element method. <i>Medical Engineering and Physics</i> , <b>2008</b> , 30, 269-77	2.4	120
184	Effectiveness of insoles on plantar pressure redistribution. <i>Journal of Rehabilitation Research and Development</i> , <b>2004</b> , 41, 767-74		97
183	Development of a finite element model of female foot for high-heeled shoe design. <i>Clinical Biomechanics</i> , <b>2008</b> , 23 Suppl 1, S31-8	2.2	95
182	Consequences of partial and total plantar fascia release: a finite element study. <i>Foot and Ankle International</i> , <b>2006</b> , 27, 125-32	3.3	83
181	Load transfer mechanics between trans-tibial prosthetic socket and residual limbdynamic effects. Journal of Biomechanics, <b>2004</b> , 37, 1371-7	2.9	79
180	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> , <b>1998</b> , 20, 360-73	2.4	77
179	Finite element modeling of the contact interface between trans-tibial residual limb and prosthetic socket. <i>Medical Engineering and Physics</i> , <b>2004</b> , 26, 655-62	2.4	73
178	Biomechanics of pressure ulcer in body tissues interacting with external forces during locomotion. <i>Annual Review of Biomedical Engineering</i> , <b>2010</b> , 12, 29-53	12	72
177	Effect of sock on biomechanical responses of foot during walking. Clinical Biomechanics, 2006, 21, 314-2	21.2	71
176	Regional variations in microstructural properties of vertebral trabeculae with aging. <i>Journal of Bone and Mineral Metabolism</i> , <b>2005</b> , 23, 174-80	2.9	69
175	Why do woodpeckers resist head impact injury: a biomechanical investigation. <i>PLoS ONE</i> , <b>2011</b> , 6, e2649	99.7	69
174	Biomechanical responses of the intervertebral joints to static and vibrational loading: a finite element study. <i>Clinical Biomechanics</i> , <b>2003</b> , 18, 790-9	2.2	65

## (2014-2003)

173	Quantitative comparison of plantar foot shapes under different weight-bearing conditions. <i>Journal of Rehabilitation Research and Development</i> , <b>2003</b> , 40, 517-26		61
172	Pressure distribution at the stump/socket interface in transtibial amputees during walking on stairs, slope and non-flat road. <i>Clinical Biomechanics</i> , <b>2006</b> , 21, 1067-73	2.2	60
171	Low intensity pulsed ultrasound accelerated bone remodeling during consolidation stage of distraction osteogenesis. <i>Journal of Orthopaedic Research</i> , <b>2006</b> , 24, 263-70	3.8	53
170	Regional differences in pain threshold and tolerance of the transtibial residual limb: including the effects of age and interface material. <i>Archives of Physical Medicine and Rehabilitation</i> , <b>2005</b> , 86, 641-9	2.8	53
169	Influence of malalignment on socket reaction moments during gait in amputees with transtibial prostheses. <i>Gait and Posture</i> , <b>2013</b> , 37, 620-6	2.6	52
168	Computational Models of the Foot and Ankle for Pathomechanics and Clinical Applications: A Review. <i>Annals of Biomedical Engineering</i> , <b>2016</b> , 44, 213-21	4.7	51
167	Wavelet coherence analysis of spontaneous oscillations in cerebral tissue oxyhemoglobin concentrations and arterial blood pressure in elderly subjects. <i>Microvascular Research</i> , <b>2014</b> , 93, 14-20	3.7	50
166	Comparison of stress on knee cartilage during kneeling and standing using finite element models. <i>Medical Engineering and Physics</i> , <b>2014</b> , 36, 439-47	2.4	47
165	Comparison of computational analysis with clinical measurement of stresses on below-knee residual limb in a prosthetic socket. <i>Medical Engineering and Physics</i> , <b>2000</b> , 22, 607-12	2.4	47
164	Effect of heel height on in-shoe localized triaxial stresses. <i>Journal of Biomechanics</i> , <b>2011</b> , 44, 2267-72	2.9	45
163	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> , <b>2013</b> , 33, 692-9	7.3	44
162	3D foot shape generation from 2D information. <i>Ergonomics</i> , <b>2005</b> , 48, 625-41	2.9	44
161	The effect of shear forces externally applied to skin surface on underlying tissues. <i>Journal of Biomedical Engineering</i> , <b>1993</b> , 15, 451-6		44
160	Finite Element Analysis of Foot and Ankle Impact Injury: Risk Evaluation of Calcaneus and Talus Fracture. <i>PLoS ONE</i> , <b>2016</b> , 11, e0154435	3.7	42
159	Wavelet coherence analysis of prefrontal oxygenation signals in elderly subjects with hypertension. <i>Physiological Measurement</i> , <b>2014</b> , 35, 777-91	2.9	41
158	Does location of rotation center in artificial disc affect cervical biomechanics?. <i>Spine</i> , <b>2015</b> , 40, E469-75	3.3	40
157	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> , <b>2015</b> , 278, 330-6	3.4	37
156	Biomechanics of first ray hypermobility: an investigation on joint force during walking using finite element analysis. <i>Medical Engineering and Physics</i> , <b>2014</b> , 36, 1388-93	2.4	36

155	Characterization and thermal behavior of calcium deficient hydroxyapatite whiskers with various Ca/P ratios. <i>Materials Chemistry and Physics</i> , <b>2011</b> , 126, 642-648	4.4	36	
154	Assessment of cerebral oxygenation during prolonged simulated driving using near infrared spectroscopy: its implications for fatigue development. <i>European Journal of Applied Physiology</i> , <b>2009</b> , 107, 281-7	3.4	36	
153	Functional restoration and risk of non-union of the first metatarsocuneiform arthrodesis for hallux valgus: A finite element approach. <i>Journal of Biomechanics</i> , <b>2015</b> , 48, 3142-8	2.9	35	
152	Biomechanical effects of cervical arthroplasty with U-shaped disc implant on segmental range of motion and loading of surrounding soft tissue. <i>European Spine Journal</i> , <b>2014</b> , 23, 613-21	2.7	35	
151	Effect of lumbar support on seating comfort predicted by a whole human body-seat model. <i>International Journal of Industrial Ergonomics</i> , <b>2016</b> , 53, 319-327	2.9	34	
150	Glucosamine sulphate-loaded distearoyl phosphocholine liposomes for osteoarthritis treatment: combination of sustained drug release and improved lubrication. <i>Biomaterials Science</i> , <b>2019</b> , 7, 2716-27	2 <del>8</del> 4	33	
149	A finite element analysis of the load transfer between an above-knee residual limb and its prosthetic socketroles of interface friction and distal-end boundary conditions. <i>IEEE Transactions on Rehabilitation Engineering: A Publication of the IEEE Engineering in Medicine and Biology Society</i> ,		33	
148	<b>1996</b> , 4, 337-46 Perception of socket alignment perturbations in amputees with transtibial prostheses. <i>Journal of Rehabilitation Research and Development</i> , <b>2012</b> , 49, 843-53		32	
147	Biomechanical simulation of high-heeled shoe donning and walking. <i>Journal of Biomechanics</i> , <b>2013</b> , 46, 2067-74	2.9	31	
146	Effects of Ankle Arthrodesis on Biomechanical Performance of the Entire Foot. <i>PLoS ONE</i> , <b>2015</b> , 10, e0	1 <b>3</b> 4340	) 31	
145	Spectral analysis of near-infrared spectroscopy signals measured from prefrontal lobe in subjects at risk for stroke. <i>Medical Physics</i> , <b>2012</b> , 39, 2179-85	4.4	31	
144	Using computational simulation to aid in the prediction of socket fit: a preliminary study. <i>Medical Engineering and Physics</i> , <b>2007</b> , 29, 923-9	2.4	31	
143	Photocrosslinkable nanocomposite ink for printing strong, biodegradable and bioactive bone graft. <i>Biomaterials</i> , <b>2020</b> , 263, 120378	15.6	31	
142	Relationships between femoral strength evaluated by nonlinear finite element analysis and BMD, material distribution and geometric morphology. <i>Annals of Biomedical Engineering</i> , <b>2012</b> , 40, 1575-85	4.7	30	
141	Design of monolimb using finite element modelling and statistics-based Taguchi method. <i>Clinical Biomechanics</i> , <b>2005</b> , 20, 759-66	2.2	30	
140	Finite element simulation on posterior tibial tendinopathy: Load transfer alteration and		20	
	implications to the onset of pes planus. <i>Clinical Biomechanics</i> , <b>2018</b> , 51, 10-16	2.2	30	
139		3.4	29	

### (2006-2006)

137	Regional variations in microstructural properties of vertebral trabeculae with structural groups. <i>Spine</i> , <b>2006</b> , 31, 24-32	3.3	28	
136	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> , <b>2019</b> , 83, 260-272	2.9	28	
135	Redistribution of knee stress using laterally wedged insole intervention: Finite element analysis of knee-ankle-foot complex. <i>Clinical Biomechanics</i> , <b>2013</b> , 28, 61-7	2.2	27	
134	Current methods in computer-aided engineering for footwear design. <i>Footwear Science</i> , <b>2009</b> , 1, 31-46	1.4	27	
133	Biomechanics of fencing sport: A scoping review. <i>PLoS ONE</i> , <b>2017</b> , 12, e0171578	3.7	27	
132	Finite element analysis of biomechanical effects of total ankle arthroplasty on the foot. <i>Journal of Orthopaedic Translation</i> , <b>2018</b> , 12, 55-65	4.2	26	
131	In-shoe plantar tri-axial stress profiles during maximum-effort cutting maneuvers. <i>Journal of Biomechanics</i> , <b>2014</b> , 47, 3799-806	2.9	26	
130	A quasi-dynamic nonlinear finite element model to investigate prosthetic interface stresses during walking for trans-tibial amputees. <i>Clinical Biomechanics</i> , <b>2005</b> , 20, 630-5	2.2	25	
129	Finite-element analysis to determine effect of monolimb flexibility on structural strength and interaction between residual limb and prosthetic socket. <i>Journal of Rehabilitation Research and Development</i> , <b>2004</b> , 41, 775-86		25	
128	Effective Connectivity Analysis of the Brain Network in Drivers during Actual Driving Using Near-Infrared Spectroscopy. <i>Frontiers in Behavioral Neuroscience</i> , <b>2017</b> , 11, 211	3.5	24	
127	Effect of alignment changes on sagittal and coronal socket reaction moment interactions in transtibial prostheses. <i>Journal of Biomechanics</i> , <b>2013</b> , 46, 1343-50	2.9	23	
126	Frequency-specific functional connectivity revealed by wavelet-based coherence analysis in elderly subjects with cerebral infarction using NIRS method. <i>Medical Physics</i> , <b>2015</b> , 42, 5391-403	4.4	23	
125	Finite element modeling and modal analysis of the human spine vibration configuration. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2011</b> , 58, 2987-90	5	23	
124	Phase and thermal stability of hydroxyapatite whiskers precipitated using amine additives. <i>Ceramics International</i> , <b>2011</b> , 37, 279-286	5.1	23	
123	Biomechanical study of tarsometatarsal joint fusion using finite element analysis. <i>Medical Engineering and Physics</i> , <b>2014</b> , 36, 1394-400	2.4	22	
122	Effect of transtibial prosthesis alignment changes on out-of-plane socket reaction moments during walking in amputees. <i>Journal of Biomechanics</i> , <b>2012</b> , 45, 2603-9	2.9	22	
121	Regional variations in the apparent and tissue-level mechanical parameters of vertebral trabecular bone with aging using micro-finite element analysis. <i>Annals of Biomedical Engineering</i> , <b>2007</b> , 35, 1622-37	1 <sup>4·7</sup>	22	
120	A serrated jaw clamp for tendon gripping. <i>Medical Engineering and Physics</i> , <b>2006</b> , 28, 379-82	2.4	22	

119	Functional connectivity analysis of distracted drivers based on the wavelet phase coherence of functional near-infrared spectroscopy signals. <i>PLoS ONE</i> , <b>2017</b> , 12, e0188329	3.7	21
118	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> , <b>2016</b> , 38, 11	52 <sup>2</sup> 6 <sup>4</sup>	21
117	Age-related alterations in phase synchronization of oxyhemoglobin concentration changes in prefrontal tissues as measured by near-infrared spectroscopy signals. <i>Microvascular Research</i> , <b>2016</b> , 103, 19-25	3.7	21
116	Finite element analysis of locking plate and two types of intramedullary nails for treating mid-shaft clavicle fractures. <i>Injury</i> , <b>2016</b> , 47, 1618-23	2.5	21
115	Wearable Vibrotactile Biofeedback Device Allowing Identification of Different Floor Conditions for Lower-Limb Amputees. <i>Archives of Physical Medicine and Rehabilitation</i> , <b>2016</b> , 97, 1210-3	2.8	20
114	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> , <b>2020</b> , 17,	4.6	20
113	Biomechanism of impact resistance in the woodpecker's head and its application. <i>Science China Life Sciences</i> , <b>2013</b> , 56, 715-9	8.5	19
112	Peak vertical ground reaction force during two-leg landing: a systematic review and mathematical modeling. <i>BioMed Research International</i> , <b>2014</b> , 2014, 126860	3	19
111	Long-distance walking effects on trans-tibial amputees compensatory gait patterns and implications on prosthetic designs and training. <i>Gait and Posture</i> , <b>2012</b> , 35, 328-33	2.6	19
110	Deterioration of stress distribution due to tunnel creation in single-bundle and double-bundle anterior cruciate ligament reconstructions. <i>Annals of Biomedical Engineering</i> , <b>2012</b> , 40, 1554-67	4.7	18
109	Quantifying the regional load-bearing ability of trans-tibial stumps. <i>Prosthetics and Orthotics International</i> , <b>2006</b> , 30, 25-34	1.5	18
108	Wavelet coherence analysis of prefrontal tissue oxyhaemoglobin signals as measured using near-infrared spectroscopy in elderly subjects with cerebral infarction. <i>Microvascular Research</i> , <b>2014</b> , 95, 108-15	3.7	17
107	Biomechanical response of the musculoskeletal system to whole body vibration using a seated driver model. <i>International Journal of Industrial Ergonomics</i> , <b>2015</b> , 45, 91-97	2.9	17
106	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> , <b>2017</b> , 20, 1525-1532	2.1	16
105	The application of 3D-printed transparent facemask for facial scar management and its biomechanical rationale. <i>Burns</i> , <b>2018</b> , 44, 453-461	2.3	16
104	Sleeping mattress determinants and evaluation: a biomechanical review and critique. <i>PeerJ</i> , <b>2019</b> , 7, e6364	3.1	16
103	Assessment of cerebral oxygenation oscillations in subjects with hypertension. <i>Microvascular Research</i> , <b>2013</b> , 88, 32-41	3.7	16
102	Effects of Sleep Deprivation on Phase Synchronization as Assessed by Wavelet Phase Coherence Analysis of Prefrontal Tissue Oxyhemoglobin Signals. <i>PLoS ONE</i> , <b>2017</b> , 12, e0169279	3.7	16

## (2018-2020)

101	A Review of the Application of Additive Manufacturing in Prosthetic and Orthotic Clinics from a Biomechanical Perspective. <i>Engineering</i> , <b>2020</b> , 6, 1258-1266	9.7	16
100	Apparent- and Tissue-Level Yield Behaviors of L4 Vertebral Trabecular Bone and Their Associations with Microarchitectures. <i>Annals of Biomedical Engineering</i> , <b>2016</b> , 44, 1204-23	4.7	15
99	MICRO-FINITE ELEMENT ANALYSIS OF TRABECULAR BONE YIELD BEHAVIOR ŒFFECTS OF TISSUE NONLINEAR MATERIAL PROPERTIES. <i>Journal of Mechanics in Medicine and Biology</i> , <b>2011</b> , 11, 56	3-580	15
98	Influence of anteroposterior shifting of trunk mass centroid on vibrational configuration of human spine. <i>Computers in Biology and Medicine</i> , <b>2008</b> , 38, 146-51	7	15
97	Finite Element Analysis of Generalized Ligament Laxity on the Deterioration of Hallux Valgus Deformity (Bunion). <i>Frontiers in Bioengineering and Biotechnology</i> , <b>2020</b> , 8, 571192	5.8	15
96	Biomechanical comparison of locking plate and crossing metallic and absorbable screws fixations for intra-articular calcaneal fractures. <i>Science China Life Sciences</i> , <b>2016</b> , 59, 958-64	8.5	15
95	Prediction on the plantar fascia strain offload upon Fascia taping and Low-Dye taping during running. <i>Journal of Orthopaedic Translation</i> , <b>2020</b> , 20, 113-121	4.2	14
94	Effects of long-distance walking on socket-limb interface pressure, tactile sensitivity and subjective perceptions of trans-tibial amputees. <i>Disability and Rehabilitation</i> , <b>2013</b> , 35, 888-93	2.4	13
93	Correlation analysis between prefrontal oxygenation oscillations and cerebral artery hemodynamics in humans. <i>Microvascular Research</i> , <b>2011</b> , 82, 304-10	3.7	13
92	Vibration modes of injured spine at resonant frequencies under vertical vibration. <i>Spine</i> , <b>2009</b> , 34, E682	<b>2-8</b> .3	13
91	Gait analysis of low-cost flexible-shank transtibial prostheses. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , <b>2006</b> , 14, 370-7	4.8	13
90	Tai Chi Chuan exercise related change in brain function as assessed by functional near-infrared spectroscopy. <i>Scientific Reports</i> , <b>2019</b> , 9, 13198	4.9	12
90 89		4.9	12
	spectroscopy. <i>Scientific Reports</i> , <b>2019</b> , 9, 13198  Wavelet analysis of sacral tissue oxygenation oscillations by near-infrared spectroscopy in persons		
89	Spectroscopy. <i>Scientific Reports</i> , <b>2019</b> , 9, 13198  Wavelet analysis of sacral tissue oxygenation oscillations by near-infrared spectroscopy in persons with spinal cord injury. <i>Microvascular Research</i> , <b>2011</b> , 81, 81-7  A numerical approach to evaluate the fatigue life of monolimb. <i>Medical Engineering and Physics</i> ,	3.7	12
89	wavelet analysis of sacral tissue oxygenation oscillations by near-infrared spectroscopy in persons with spinal cord injury. <i>Microvascular Research</i> , <b>2011</b> , 81, 81-7  A numerical approach to evaluate the fatigue life of monolimb. <i>Medical Engineering and Physics</i> , <b>2006</b> , 28, 290-6  Effect of pillow height on the biomechanics of the head-neck complex: investigation of the	3.7	12
89 88 87	Wavelet analysis of sacral tissue oxygenation oscillations by near-infrared spectroscopy in persons with spinal cord injury. <i>Microvascular Research</i> , <b>2011</b> , 81, 81-7  A numerical approach to evaluate the fatigue life of monolimb. <i>Medical Engineering and Physics</i> , <b>2006</b> , 28, 290-6  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> , <b>2016</b> , 4, e2397  Effect of tibial drill-guide angle on the mechanical environment at bone tunnel aperture after anatomic single-bundle anterior cruciate ligament reconstruction. <i>International Orthopaedics</i> , <b>2014</b> ,	3.7 2.4 3.1	12 12 12

83	Ultrasound elastographic assessment of plantar fascia in runners using rearfoot strike and forefoot strike. <i>Journal of Biomechanics</i> , <b>2019</b> , 89, 65-71	2.9	10
82	Analysis of compression/release stabilized transfemoral prosthetic socket by finite element modelling method. <i>Medical Engineering and Physics</i> , <b>2020</b> , 83, 123-129	2.4	10
81	Effective Connectivity in Response to Posture Changes in Elderly Subjects as Assessed Using Functional Near-Infrared Spectroscopy. <i>Frontiers in Human Neuroscience</i> , <b>2018</b> , 12, 98	3.3	10
80	Biomechanical analysis of combining head-down tilt traction with vibration for different grades of degeneration of the lumbar spine. <i>Medical Engineering and Physics</i> , <b>2017</b> , 39, 83-93	2.4	10
79	Biomechanical evaluation of heel elevation on load transfer Experimental measurement and finite element analysis. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , <b>2012</b> , 28, 232-240	2	10
78	Consideration of gender differences in ankle stabilizer selection for half-squat parachute landing. <i>Aviation, Space, and Environmental Medicine</i> , <b>2011</b> , 82, 1118-24		10
77	TRANSMISSIBILITY OF WHOLE BODY VIBRATION STIMULI THROUGH HUMAN BODY IN DIFFERENT STANDING POSTURES. <i>Journal of Mechanics in Medicine and Biology</i> , <b>2012</b> , 12, 1250047	0.7	10
76	Dynamic postural stability for double-leg drop landing. <i>Journal of Sports Sciences</i> , <b>2013</b> , 31, 1074-81	3.6	9
75	Biomechanical comparison of modified Calcanail system with plating fixation in intra-articular calcaneal fracture: A finite element analysis. <i>Medical Engineering and Physics</i> , <b>2019</b> , 70, 55-61	2.4	8
74	Socket reaction moments in transtibial prostheses during walking at clinically perceived optimal alignment. <i>Prosthetics and Orthotics International</i> , <b>2016</b> , 40, 503-8	1.5	8
73	Spectral analysis of cerebral oxygenation responses to seated whole-body vibration in healthy men. <i>International Journal of Industrial Ergonomics</i> , <b>2012</b> , 42, 341-346	2.9	8
72	An in vitro and finite element study of load redistribution in the midfoot. <i>Science China Life Sciences</i> , <b>2014</b> , 57, 1191-6	8.5	8
71	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> , <b>2012</b> , 112, 310	) <del>9:1</del> 7	8
70	Effect of Microstructure of Spongy Bone in Different Parts of Woodpecker Skull on Resistance to Impact Injury. <i>Journal of Nanomaterials</i> , <b>2013</b> , 2013, 1-6	3.2	8
69	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> , <b>2020</b> , 11, 67-67	8.2	8
68	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> , <b>2021</b> , 132, 104355	7	8
67	Influence of passive elements on prediction of intradiscal pressure and muscle activation in lumbar musculoskeletal models. <i>Computer Methods and Programs in Biomedicine</i> , <b>2019</b> , 177, 39-46	6.9	7
66	An optimized design of compression sportswear fabric using numerical simulation and the response surface method. <i>Textile Reseach Journal</i> , <b>2012</b> , 82, 108-116	1.7	7

### (2010-2013)

65	Phosphate Cement Under Non-Calcined Synthesis Condition. <i>Journal of the American Ceramic Society</i> , <b>2013</b> , 96, 1944-1950	3.8	7	
64	EFFECTS OF LATERALITY, ANKLE INVERSION AND STABILIZERS ON THE PLANTAR PRESSURE DISTRIBUTION DURING UNIPEDAL STANDING. <i>Journal of Mechanics in Medicine and Biology</i> , <b>2012</b> , 12, 1250055	0.7	7	
63	Fatigue test of low-cost flexible-shank monolimb trans-tibial prosthesis. <i>Prosthetics and Orthotics International</i> , <b>2006</b> , 30, 305-15	1.5	7	
62	Effects of Prophylactic Ankle Supports on Vertical Ground Reaction Force During Landing: A Meta-Analysis. <i>Journal of Sports Science and Medicine</i> , <b>2016</b> , 15, 1-10	2.7	7	
61	The primary stability of different implants for intra-articular calcaneal fractures: an in vitro study. <i>BioMedical Engineering OnLine</i> , <b>2018</b> , 17, 50	4.1	6	
60	Shoe-last design exploration and customization. <i>Journal of the Textile Institute</i> , <b>2012</b> , 103, 541-548	1.5	6	
59	An instrument for methodological quality assessment of single-subject finite element analysis used in computational orthopaedics. <i>Medicine in Novel Technology and Devices</i> , <b>2021</b> , 11, 100067	2.1	6	
58	Total ankle arthroplasty and ankle arthrodesis affect the biomechanics of the inner foot differently. <i>Scientific Reports</i> , <b>2019</b> , 9, 13334	4.9	5	
57	Lower Limb Inter-Joint Coordination of Unilateral Transfemoral Amputees: Implications for Adaptation Control. <i>Applied Sciences (Switzerland)</i> , <b>2020</b> , 10, 4072	2.6	5	
56	Lifelong bound feet in China: a quantitative ultrasound and lifestyle questionnaire study in postmenopausal women. <i>BMJ Open</i> , <b>2015</b> , 5, e006521	3	5	
55	Biomechanical analysis of lumbar interbody fusion supplemented with various posterior stabilization systems. <i>European Spine Journal</i> , <b>2021</b> , 30, 2342-2350	2.7	5	
54	Finite element analysis of the valgus knee joint of an obese child. <i>BioMedical Engineering OnLine</i> , <b>2016</b> , 15, 158	4.1	5	
53	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> , <b>2021</b> , 88, 54-59	2.6	5	
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