

Ming Zhang

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.

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	The interaction effects of rocker angle and apex location in rocker shoe design on foot biomechanics and Achilles tendon loading. <i>Medicine in Novel Technology and Devices</i> , 2022 , 13, 100111	2.1	
189	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
188	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
187	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
186	Measurement of covered curvature based on a tape of integrated accelerometers. <i>Measurement: Journal of the International Measurement Confederation</i> , 2022 , 193, 110959	4.6	1
185	Tai Chi and Yoga for Improving Balance on One Leg: A Neuroimaging and Biomechanics Study. <i>Frontiers in Neurology</i> , 2021 , 12, 746599	4.1	3
184	Anterior Cruciate Ligament Reconstruction with Hybrid Graft versus Autograft: A Systematic Review and Meta-Analysis. <i>Journal of Healthcare Engineering</i> , 2021 , 2021, 7562649	3.7	
183	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
182	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
181	Biomechanical analysis of lumbar interbody fusion supplemented with various posterior stabilization systems. <i>European Spine Journal</i> , 2021 , 30, 2342-2350	2.7	5
180	A half marathon shifts the mediolateral force distribution at the tibiofemoral joint. <i>European Journal of Sport Science</i> , 2021 , 1-8	3.9	
179	A finite element model of the 3D-printed transparent facemask for applying pressure therapy. <i>Clinical Biomechanics</i> , 2021 , 87, 105414	2.2	0
178	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
177	Time-evolving coupling functions for evaluating the interaction between cerebral oxyhemoglobin and arterial blood pressure with hypertension. <i>Medical Physics</i> , 2021 , 48, 2027-2037	4.4	0
176	Non-amputated limb muscle coordination of unilateral transfemoral amputees. <i>Journal of Biomechanics</i> , 2021 , 115, 110155	2.9	0
175	Fracture mapping of complex intra-articular calcaneal fractures. <i>Annals of Translational Medicine</i> , 2021 , 9, 333	3.2	3
174	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

173	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
172	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
171	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
170	Identifying Fatigue Indicators Using Gait Variability Measures: A Longitudinal Study on Elderly Brisk Walking. <i>Sensors</i> , 2020 , 20,	3.8	0
169	Joint contact force and movement deceleration among badminton forward lunges: a musculoskeletal modelling study. <i>Sports Biomechanics</i> , 2020 , 1-13	2.2	2
168	Lower Limb Inter-Joint Coordination of Unilateral Transfemoral Amputees: Implications for Adaptation Control. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 4072	2.6	5
167	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
166	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
165	Biomechanical analysis of four augmented fixations of plate osteosynthesis for comminuted mid-shaft clavicle fracture: A finite element approach. <i>Experimental and Therapeutic Medicine</i> , 2020 , 20, 2106-2112	2.1	
164	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
163	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
162	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
161	Exercise-Induced Hemodynamic Changes in Muscle Tissue: Implication of Muscle Fatigue. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 3512	2.6	4
160	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
159	Photocrosslinkable nanocomposite ink for printing strong, biodegradable and bioactive bone graft. <i>Biomaterials</i> , 2020 , 263, 120378	15.6	31
158	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
157	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
156	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

155	Total ankle arthroplasty and ankle arthrodesis affect the biomechanics of the inner foot differently. <i>Scientific Reports</i> , 2019 , 9, 13334	4.9	5
154	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
153	Influence of passive elements on prediction of intradiscal pressure and muscle activation in lumbar musculoskeletal models. <i>Computer Methods and Programs in Biomedicine</i> , 2019 , 177, 39-46	6.9	7
152	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
151	Glucosamine sulphate-loaded distearoyl phosphocholine liposomes for osteoarthritis treatment: combination of sustained drug release and improved lubrication. <i>Biomaterials Science</i> , 2019 , 7, 2716-2728	7.4	33
150	Sleeping mattress determinants and evaluation: a biomechanical review and critique. <i>PeerJ</i> , 2019 , 7, e6364	3.1	16
149	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
148	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
147	Developing transmission line equations of oxygen transport for predicting oxygen distribution in the arterial system. <i>Scientific Reports</i> , 2018 , 8, 5369	4.9	2
146	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
145	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
144	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
143	The primary stability of different implants for intra-articular calcaneal fractures: an in vitro study. <i>BioMedical Engineering OnLine</i> , 2018 , 17, 50	4.1	6
142	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
141	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
140	Blood Flow and Oxygen Transport in Descending Branch of Lateral Femoral Circumflex Arteries After Transfemoral Amputation: A Numerical Study. <i>Journal of Medical and Biological Engineering</i> , 2017 , 37, 63-73	2.2	3
139	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
138	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

137	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> , 2017 , 39, 83-93	2.4	10
136	Effective Connectivity Analysis of the Brain Network in Drivers during Actual Driving Using Near-Infrared Spectroscopy. <i>Frontiers in Behavioral Neuroscience</i> , 2017 , 11, 211	3.5	24
135	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
134	Biomechanics of fencing sport: A scoping review. <i>PLoS ONE</i> , 2017 , 12, e0171578	3.7	27
133	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
132	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, 1152-64	2.4	21
131	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
130	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
129	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
128	Apparent- and Tissue-Level Yield Behaviors of L4 Vertebral Trabecular Bone and Their Associations with Microarchitectures. <i>Annals of Biomedical Engineering</i> , 2016 , 44, 1204-23	4.7	15
127	Wearable Vibrotactile Biofeedback Device Allowing Identification of Different Floor Conditions for Lower-Limb Amputees. <i>Archives of Physical Medicine and Rehabilitation</i> , 2016 , 97, 1210-3	2.8	20
126	Socket reaction moments in transtibial prostheses during walking at clinically perceived optimal alignment. <i>Prosthetics and Orthotics International</i> , 2016 , 40, 503-8	1.5	8
125	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
124	Effects of Prophylactic Ankle Supports on Vertical Ground Reaction Force During Landing: A Meta-Analysis. <i>Journal of Sports Science and Medicine</i> , 2016 , 15, 1-10	2.7	7
123	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
122	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
121	Finite element analysis of the valgus knee joint of an obese child. <i>BioMedical Engineering OnLine</i> , 2016 , 15, 158	4.1	5
120	Effect of lumbar support on seating comfort predicted by a whole human body-seat model. <i>International Journal of Industrial Ergonomics</i> , 2016 , 53, 319-327	2.9	34

119	A Footwear-Boot-Knee Computational Platform for Exploring Footwear Effects on Knee Joint Biomechanics. <i>Journal of Medical and Biological Engineering</i> , 2016 , 36, 245-256	2.2	3
118	Biomechanical and fluid flowing characteristics of intervertebral disc of lumbar spine predicted by poroelastic finite element method. <i>Acta of Bioengineering and Biomechanics</i> , 2016 , 18, 19-29	0.6	2
117	Effects of Ankle Eversion, Limb Laterality, and Ankle Stabilizers on Transient Postural Stability During Unipedal Standing. <i>Journal of Medical and Biological Engineering</i> , 2015 , 35, 69-75	2.2	3
116	Bone regeneration strategy inspired by the study of calcification behavior in deer antler. <i>Materials Science and Engineering C</i> , 2015 , 57, 67-76	8.3	3
115	Does location of rotation center in artificial disc affect cervical biomechanics?. <i>Spine</i> , 2015 , 40, E469-75	3.3	40
114	Effects of heel base size, walking speed, and slope angle on center of pressure trajectory and plantar pressure when wearing high-heeled shoes. <i>Human Movement Science</i> , 2015 , 41, 307-19	2.4	28
113	REVIEW: HEMODYNAMIC STUDIES FOR LOWER LIMB AMPUTATION AND REHABILITATION. <i>Journal of Mechanics in Medicine and Biology</i> , 2015 , 15, 1530005	0.7	2
112	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
111	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
110	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
109	Effects of Ankle Arthrodesis on Biomechanical Performance of the Entire Foot. <i>PLoS ONE</i> , 2015 , 10, e0134340	3.7	31
108	Lifelong bound feet in China: a quantitative ultrasound and lifestyle questionnaire study in postmenopausal women. <i>BMJ Open</i> , 2015 , 5, e006521	3	5
107	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
106	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> , 2014 , 23, 613-21	2.7	35
105	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> , 2014 , 38, 973-81	3.8	11
104	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
103	Investigation of mechanical behavior of CPC/bone specimens by finite element analysis. <i>Ceramics International</i> , 2014 , 40, 2933-2942	5.1	4
102	Wavelet coherence analysis of prefrontal oxygenation signals in elderly subjects with hypertension. <i>Physiological Measurement</i> , 2014 , 35, 777-91	2.9	41

101	Influence of screw length and diameter on tibial strain energy density distribution after anterior cruciate ligament reconstruction. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2014 , 30, 241-249	2	4
100	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
99	Individual responses to alignment perturbations in socket reaction moments while walking in transtibial prostheses. <i>Clinical Biomechanics</i> , 2014 , 29, 590-4	2.2	11
98	Biomechanical study of tarsometatarsal joint fusion using finite element analysis. <i>Medical Engineering and Physics</i> , 2014 , 36, 1394-400	2.4	22
97	Comparison of stress on knee cartilage during kneeling and standing using finite element models. <i>Medical Engineering and Physics</i> , 2014 , 36, 439-47	2.4	47
96	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
95	Foot Model for Investigating Foot Biomechanics and Footwear Design 2014 , 3-18		1
94	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
93	Peak vertical ground reaction force during two-leg landing: a systematic review and mathematical modeling. <i>BioMed Research International</i> , 2014 , 2014, 126860	3	19
92	In-shoe plantar tri-axial stress profiles during maximum-effort cutting maneuvers. <i>Journal of Biomechanics</i> , 2014 , 47, 3799-806	2.9	26
91	Female Foot Model for High-Heeled Shoe Design 2014 , 19-36		
90	Foot and Ankle Model for Surgical Treatment 2014 , 37-48		
89	Biomechanical simulation of high-heeled shoe donning and walking. <i>Journal of Biomechanics</i> , 2013 , 46, 2067-74	2.9	31
88	Biomechanism of impact resistance in the woodpecker's head and its application. <i>Science China Life Sciences</i> , 2013 , 56, 715-9	8.5	19
87	Assessment of cerebral oxygenation oscillations in subjects with hypertension. <i>Microvascular Research</i> , 2013 , 88, 32-41	3.7	16
86	Effects of long-distance walking on socket-limb interface pressure, tactile sensitivity and subjective perceptions of trans-tibial amputees. <i>Disability and Rehabilitation</i> , 2013 , 35, 888-93	2.4	13
85	Redistribution of knee stress using laterally wedged insole intervention: Finite element analysis of knee-ankle-foot complex. <i>Clinical Biomechanics</i> , 2013 , 28, 61-7	2.2	27
84	Effect of alignment changes on sagittal and coronal socket reaction moment interactions in transtibial prostheses. <i>Journal of Biomechanics</i> , 2013 , 46, 1343-50	2.9	23

83	Influence of malalignment on socket reaction moments during gait in amputees with transtibial prostheses. <i>Gait and Posture</i> , 2013 , 37, 620-6	2.6	52
82	Effect of Magnesium Doping on Hydration Morphology and Mechanical Property of Calcium Phosphate Cement Under Non-Calcined Synthesis Condition. <i>Journal of the American Ceramic Society</i> , 2013 , 96, 1944-1950	3.8	7
81	Dynamic postural stability for double-leg drop landing. <i>Journal of Sports Sciences</i> , 2013 , 31, 1074-81	3.6	9
80	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
79	Effect of Microstructure of Spongy Bone in Different Parts of Woodpecker's Skull on Resistance to Impact Injury. <i>Journal of Nanomaterials</i> , 2013 , 2013, 1-6	3.2	8
78	Effects of heel lifting on transtibial amputee gait before and after treadmill walking: a case study. <i>Prosthetics and Orthotics International</i> , 2013 , 37, 317-23	1.5	3
77	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
76	Effect of transtibial prosthesis alignment changes on out-of-plane socket reaction moments during walking in amputees. <i>Journal of Biomechanics</i> , 2012 , 45, 2603-9	2.9	22
75	Long-distance walking effects on trans-tibial amputees compensatory gait patterns and implications on prosthetic designs and training. <i>Gait and Posture</i> , 2012 , 35, 328-33	2.6	19
74	An optimized design of compression sportswear fabric using numerical simulation and the response surface method. <i>Textile Research Journal</i> , 2012 , 82, 108-116	1.7	7
73	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	3.4	8
72	Biomechanical evaluation of heel elevation on load transfer [Experimental measurement and finite element analysis. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2012 , 28, 232-240	2	10
71	Relationships between femoral strength evaluated by nonlinear finite element analysis and BMD, material distribution and geometric morphology. <i>Annals of Biomedical Engineering</i> , 2012 , 40, 1575-85	4.7	30
70	Deterioration of stress distribution due to tunnel creation in single-bundle and double-bundle anterior cruciate ligament reconstructions. <i>Annals of Biomedical Engineering</i> , 2012 , 40, 1554-67	4.7	18
69	TRANSMISSIBILITY OF WHOLE BODY VIBRATION STIMULI THROUGH HUMAN BODY IN DIFFERENT STANDING POSTURES. <i>Journal of Mechanics in Medicine and Biology</i> , 2012 , 12, 1250047	0.7	10
68	EFFECTS OF LATERALITY, ANKLE INVERSION AND STABILIZERS ON THE PLANTAR PRESSURE DISTRIBUTION DURING UNIPEDAL STANDING. <i>Journal of Mechanics in Medicine and Biology</i> , 2012 , 12, 1250055	0.7	7
67	Shoe-last design exploration and customization. <i>Journal of the Textile Institute</i> , 2012 , 103, 541-548	1.5	6
66	Changes in bone density and geometry of the upper extremities after stroke: a case report. <i>Physiotherapy Canada Physiotherapie Canada</i> , 2012 , 64, 88-97	0.8	3

65	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
64	Perception of socket alignment perturbations in amputees with transtibial prostheses. <i>Journal of Rehabilitation Research and Development</i> , 2012 , 49, 843-53		32
63	Finite element modeling and modal analysis of the human spine vibration configuration. <i>IEEE Transactions on Biomedical Engineering</i> , 2011 , 58, 2987-90	5	23
62	Effect of heel height on in-shoe localized triaxial stresses. <i>Journal of Biomechanics</i> , 2011 , 44, 2267-72	2.9	45
61	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
60	Correlation analysis between prefrontal oxygenation oscillations and cerebral artery hemodynamics in humans. <i>Microvascular Research</i> , 2011 , 82, 304-10	3.7	13
59	Consideration of gender differences in ankle stabilizer selection for half-squat parachute landing. <i>Aviation, Space, and Environmental Medicine</i> , 2011 , 82, 1118-24		10
58	Characterization and thermal behavior of calcium deficient hydroxyapatite whiskers with various Ca/P ratios. <i>Materials Chemistry and Physics</i> , 2011 , 126, 642-648	4.4	36
57	Regional plantar foot pressure distributions on high-heeled shoes-shank curve effects. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2011 , 27, 1091-1097	2	3
56	Phase and thermal stability of hydroxyapatite whiskers precipitated using amine additives. <i>Ceramics International</i> , 2011 , 37, 279-286	5.1	23
55	MICRO-FINITE ELEMENT ANALYSIS OF TRABECULAR BONE YIELD BEHAVIOR [EFFECTS OF TISSUE NONLINEAR MATERIAL PROPERTIES]. <i>Journal of Mechanics in Medicine and Biology</i> , 2011 , 11, 563-580	9.7	15
54	Why do woodpeckers resist head impact injury: a biomechanical investigation. <i>PLoS ONE</i> , 2011 , 6, e26499	9.7	69
53	Biomechanics of pressure ulcer in body tissues interacting with external forces during locomotion. <i>Annual Review of Biomedical Engineering</i> , 2010 , 12, 29-53	12	72
52	Laser acupuncture and prevention of bone loss in tail-suspended rats. <i>Aviation, Space, and Environmental Medicine</i> , 2010 , 81, 914-8		4
51	. <i>Tsinghua Science and Technology</i> , 2010 , 15, 540-546	3.4	0
50	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
49	Age- and direction-related adaptations of lumbar vertebral trabecular bone with respect to apparent stiffness and tissue level stress distribution. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2009 , 25, 121-129	2	4
48	Influence prediction of tissue injury on frequency variations of the lumbar spine under vibration. <i>OMICS A Journal of Integrative Biology</i> , 2009 , 13, 521-6	3.8	3

47	Current methods in computer-aided engineering for footwear design. <i>Footwear Science</i> , 2009 , 1, 31-46	1.4	27
46	Vibration modes of injured spine at resonant frequencies under vertical vibration. <i>Spine</i> , 2009 , 34, E682-83	3.3	13
45	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
44	Micro-Finite Element Analysis of Bone		1
43	Numerical simulation on the adaptation of forms in trabecular bone to mechanical disuse and basic multi-cellular unit activation threshold at menopause. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2008 , 24, 207-214	2	2
42	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
41	Influence of anteroposterior shifting of trunk mass centroid on vibrational configuration of human spine. <i>Computers in Biology and Medicine</i> , 2008 , 38, 146-51	7	15
40	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> , 2007 , 35, 1622-31	4.7	22
39	Using computational simulation to aid in the prediction of socket fit: a preliminary study. <i>Medical Engineering and Physics</i> , 2007 , 29, 923-9	2.4	31
38	Mechanical Properties of Vertebral Trabeculae with Ageing Evaluated with Micro-CT		1
37	Computational Modeling the Foot-Insole Interface. <i>Studies in Computational Intelligence</i> , 2007 , 311-321	0.8	1
36	A numerical approach to evaluate the fatigue life of monolimb. <i>Medical Engineering and Physics</i> , 2006 , 28, 290-6	2.4	12
35	Gait analysis of low-cost flexible-shank transtibial prostheses. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2006 , 14, 370-7	4.8	13
34	Low intensity pulsed ultrasound accelerated bone remodeling during consolidation stage of distraction osteogenesis. <i>Journal of Orthopaedic Research</i> , 2006 , 24, 263-70	3.8	53
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