

# Songning 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.

82

papers

1,362

citations

20

h-index

34

g-index

113

ext. papers

1,579

ext. citations

2.1

avg, IF

4.57

L-index

#	Paper	IF	Citations
82	Contributions of lower extremity joints to energy dissipation during landings. <i>Medicine and Science in Sports and Exercise</i> , <b>2000</b> , 32, 812-9	1.2	309
81	Acute effects of barefoot, minimal shoes and running shoes on lower limb mechanics in rear and forefoot strike runners. <i>Footwear Science</i> , <b>2013</b> , 5, 9-18	1.4	78
80	Efficacy of an ankle orthosis with a subtalar locking system in restricting ankle kinetics and kinematics in lateral cutting. <i>Journal of Foot and Ankle Research</i> , <b>2008</b> , 1,	3.2	78
79	A comparison of gait biomechanics of flip-flops, sandals, barefoot and shoes. <i>Journal of Foot and Ankle Research</i> , <b>2013</b> , 6, 45	3.2	45
78	Effects of various midsole densities of basketball shoes on impact attenuation during landing activities. <i>Journal of Applied Biomechanics</i> , <b>2005</b> , 21, 3-17	1.2	44
77	Frontal plane multi-segment foot kinematics in high- and low-arched females during dynamic loading tasks. <i>Human Movement Science</i> , <b>2011</b> , 30, 105-14	2.4	43
76	Simple verbal instruction improves knee biomechanics during landing in female athletes. <i>Knee</i> , <b>2012</b> , 19, 399-403	2.6	41
75	Associations between iliotibial band injury status and running biomechanics in women. <i>Gait and Posture</i> , <b>2015</b> , 41, 706-10	2.6	36
74	Effects of local elastic compression on muscle strength, electromyographic, and mechanomyographic responses in the lower extremity. <i>Journal of Electromyography and Kinesiology</i> , <b>2012</b> , 22, 44-50	2.5	36
73	Shock and impact reduction in moderate and strenuous landing activities. <i>Sports Biomechanics</i> , <b>2008</b> , 7, 296-309	2.2	36
72	The influence of body mass index and velocity on knee biomechanics during walking. <i>Gait and Posture</i> , <b>2013</b> , 37, 575-9	2.6	35
71	Evaluation of efficacy and 3D kinematic characteristics of cervical orthoses. <i>Clinical Biomechanics</i> , <b>2005</b> , 20, 264-9	2.2	34
70	Changing step width alters lower extremity biomechanics during running. <i>Gait and Posture</i> , <b>2014</b> , 39, 124-8	2.6	26
69	Greater Step Widths Reduce Internal Knee Abduction Moments in Medial Compartment Knee Osteoarthritis Patients During Stair Ascent. <i>Journal of Applied Biomechanics</i> , <b>2015</b> , 31, 229-36	1.2	26
68	Ground reaction force and 3D biomechanical characteristics of walking in short-leg walkers. <i>Gait and Posture</i> , <b>2006</b> , 24, 487-92	2.6	24
67	Effects of toe-in and toe-in with wider step width on level walking knee biomechanics in varus, valgus, and neutral knee alignments. <i>Knee</i> , <b>2017</b> , 24, 1326-1334	2.6	23
66	Effects of increased step width on frontal plane knee biomechanics in healthy older adults during stair descent. <i>Knee</i> , <b>2014</b> , 21, 821-6	2.6	23

65	Ankle work and dynamic joint stiffness in high- compared to low-arched athletes during a barefoot running task. <i>Human Movement Science</i> , <b>2014</b> , 34, 147-56	2.4	22
64	Validation of the greater trochanter method with radiographic measurements of frontal plane hip joint centers and knee mechanical axis angles and two other hip joint center methods. <i>Journal of Biomechanics</i> , <b>2016</b> , 49, 3047-3051	2.9	21
63	Effects of resistance and Tai Ji training on mobility and symptoms in knee osteoarthritis patients. <i>Journal of Sport and Health Science</i> , <b>2013</b> , 2, 209-214	8.2	20
62	Efficacy of an ankle brace with a subtalar locking system in inversion control in dynamic movements. <i>Journal of Orthopaedic and Sports Physical Therapy</i> , <b>2009</b> , 39, 875-83	4.2	20
61	Effects of Toe-In and Wider Step Width in Stair Ascent with Different Knee Alignments. <i>Medicine and Science in Sports and Exercise</i> , <b>2017</b> , 49, 563-572	1.2	18
60	Stair ambulation biomechanics following total knee arthroplasty: a systematic review. <i>Journal of Arthroplasty</i> , <b>2014</b> , 29, 1857-62	4.4	17
59	Effects of toe-in angles on knee biomechanics in cycling of patients with medial knee osteoarthritis. <i>Clinical Biomechanics</i> , <b>2015</b> , 30, 276-82	2.2	16
58	The effects of sample size and variability on the correlation coefficient. <i>Medicine and Science in Sports and Exercise</i> , <b>1996</b> , 28, 386-91	1.2	15
57	Do ankle braces provide similar effects on ankle biomechanical variables in subjects with and without chronic ankle instability during landing?. <i>Journal of Sport and Health Science</i> , <b>2012</b> , 1, 114-120	8.2	13
56	Is the inverted surface landing more suitable in evaluating ankle braces and ankle inversion perturbation?. <i>Clinical Journal of Sport Medicine</i> , <b>2012</b> , 22, 214-20	3.2	13
55	The effects of sample size and variability on the correlation coefficient. <i>Medicine and Science in Sports and Exercise</i> , <b>1996</b> , 28, 386-391	1.2	13
54	Effects of Workloads and Cadences on Frontal Plane Knee Biomechanics in Cycling. <i>Medicine and Science in Sports and Exercise</i> , <b>2016</b> , 48, 260-6	1.2	13
53	Influence of Total Knee Arthroplasty on Gait Mechanics of the Replaced and Non-Replaced Limb During Stair Negotiation. <i>Journal of Arthroplasty</i> , <b>2016</b> , 31, 278-83	4.4	12
52	Do thigh circumference and mass changes alter knee biomechanics during walking?. <i>Gait and Posture</i> , <b>2013</b> , 37, 359-62	2.6	12
51	Does increasing step width alter knee biomechanics in medial compartment knee osteoarthritis patients during stair descent?. <i>Knee</i> , <b>2014</b> , 21, 676-82	2.6	12
50	Examination of femoral-neck structure using finite element model and bone mineral density using dual-energy X-ray absorptiometry. <i>Clinical Biomechanics</i> , <b>2009</b> , 24, 47-52	2.2	12
49	Acute effects of lateral shoe wedges on joint biomechanics of patients with medial compartment knee osteoarthritis during stationary cycling. <i>Journal of Biomechanics</i> , <b>2016</b> , 49, 2817-2823	2.9	11
48	Use of an inverse dynamics method to describe the motion of the canine pelvic limb in three dimensions. <i>American Journal of Veterinary Research</i> , <b>2014</b> , 75, 544-53	1.1	11

47	Is knee biomechanics different in uphill walking on different slopes for older adults with total knee replacement?. <i>Journal of Biomechanics</i> , <b>2019</b> , 89, 40-47	2.9	10
46	Use of an inverse dynamics method to compare the three-dimensional motion of the pelvic limb among clinically normal dogs and dogs with cranial cruciate ligament-deficient stifle joints following tibial plateau leveling osteotomy or lateral fabellar-tibial suture stabilization. <i>American Journal of Veterinary Research</i> , <b>2014</b> , 75, 554-64	1.1	10
45	An unstable rocker-bottom shoe alters lower extremity biomechanics during level walking. <i>Footwear Science</i> , <b>2012</b> , 4, 243-253	1.4	10
44	Knee biomechanics during popular recreational and daily activities in older men. <i>Knee</i> , <b>2014</b> , 21, 683-7	2.6	9
43	The effects of a home-based instructional program aimed at improving frontal plane knee biomechanics during a jump-landing task. <i>Journal of Orthopaedic and Sports Physical Therapy</i> , <b>2013</b> , 43, 486-94	4.2	9
42	Knee Joint Loads and Surrounding Muscle Forces during Stair Ascent in Patients with Total Knee Replacement. <i>PLoS ONE</i> , <b>2016</b> , 11, e0156282	3.7	9
41	Effects of modified short-leg walkers on ground reaction force characteristics. <i>Clinical Biomechanics</i> , <b>2008</b> , 23, 1172-7	2.2	8
40	Wide step width reduces knee abduction moment of obese adults during stair negotiation. <i>Journal of Biomechanics</i> , <b>2018</b> , 75, 138-146	2.9	7
39	Effects of Two Football Stud Types on Knee and Ankle Kinetics of Single-Leg Land-Cut and 180° Cut Movements on Infilled Synthetic Turf. <i>Journal of Applied Biomechanics</i> , <b>2015</b> , 31, 309-17	1.2	7
38	Effects of two football stud configurations on biomechanical characteristics of single-leg landing and cutting movements on infilled synthetic turf. <i>Sports Biomechanics</i> , <b>2014</b> , 13, 362-79	2.2	7
37	Increased knee loading in stair ambulation in patients dissatisfied with their total knee replacement. <i>Clinical Biomechanics</i> , <b>2019</b> , 67, 38-44	2.2	6
36	Effect of a combined inversion and plantarflexion surface on ankle kinematics and EMG activities in landing. <i>Journal of Sport and Health Science</i> , <b>2015</b> , 4, 377-383	8.2	6
35	Lower-limb joint reaction forces and moments during modified cycling in healthy controls and individuals with knee osteoarthritis. <i>Clinical Biomechanics</i> , <b>2020</b> , 71, 167-175	2.2	6
34	Increased Q-Factor increases frontal-plane knee joint loading in stationary cycling. <i>Journal of Sport and Health Science</i> , <b>2020</b> , 9, 258-264	8.2	6
33	Effects of vertical loading on arch characteristics and intersegmental foot motions. <i>Journal of Applied Biomechanics</i> , <b>2012</b> , 28, 165-73	1.2	5
32	Frontal Plane Tibiofemoral Alignment is Strongly Related to Compartmental Knee Joint Contact Forces and Muscle Control Strategies during Stair Ascent. <i>Journal of Biomechanical Engineering</i> , <b>2018</b> ,	2.1	4
31	Do knee concentric and eccentric strength and sagittal-plane knee joint biomechanics differ between jumpers and non-jumpers in landing?. <i>Human Movement Science</i> , <b>2013</b> , 32, 1299-309	2.4	4
30	Effects of a multichannel dynamic functional electrical stimulation system on hemiplegic gait and muscle forces. <i>Journal of Physical Therapy Science</i> , <b>2015</b> , 27, 3541-4	1	4

29	Effects of Knee Alignments and Toe Clip on Frontal Plane Knee Biomechanics in Cycling. <i>Journal of Sports Science and Medicine</i> , <b>2018</b> , 17, 312-321	2.7	4
28	Effectiveness of Selected Fitness Exercises on Stress of Femoral Neck using Musculoskeletal Dynamics Simulations and Finite Element Model. <i>Journal of Human Kinetics</i> , <b>2014</b> , 41, 59-70	2.6	3
27	Knee biomechanics of selected knee-unfriendly movement elements in 42-form Tai Chi. <i>International Journal of Performance Analysis in Sport</i> , <b>2018</b> , 18, 1050-1066	1.8	3
26	Effects of a combined inversion and plantarflexion surface on knee and hip kinematics during landing. <i>Sports Biomechanics</i> , <b>2016</b> , 15, 429-39	2.2	2
25	A New Device for Simulating Athlete-to-Surface Interactions on Natural and Synthetic Turf. <i>Journal of Testing and Evaluation</i> , <b>2013</b> , 41, 20120103	1	2
24	Knee joint biomechanics of patients with unilateral total knee arthroplasty during stationary cycling. <i>Journal of Biomechanics</i> , <b>2021</b> , 115, 110111	2.9	2
23	Knee biomechanics of patients with total knee replacement during downhill walking on different slopes. <i>Journal of Sport and Health Science</i> , <b>2021</b> , 11, 50-50	8.2	2
22	Does saddle height influence knee frontal-plane biomechanics during stationary cycling?. <i>Knee</i> , <b>2021</b> , 29, 233-240	2.6	2
21	Recent changes in evidence-based, non-pharmacological treatment recommendations for acupuncture and Tai Chi for knee osteoarthritis. <i>Journal of Sport and Health Science</i> , <b>2013</b> , 2, 158-159	8.2	1
20	Recent developments on models and inclusion criteria for chronic ankle instability. <i>Journal of Sport and Health Science</i> , <b>2012</b> , 1, 170-171	8.2	1
19	A Comparison of a Multi-body Model and 3D Kinematics and EMG of Double-leg Circle on Pommel Horse. <i>Journal of Human Kinetics</i> , <b>2012</b> , 31, 45-53	2.6	1
18	A Finite Element Model for Estimation of Contact Dynamics During a Jumping Movement on a Trampoline. <i>Journal of Human Kinetics</i> , <b>2020</b> , 73, 59-72	2.6	1
17	Increased Q-factor increases medial compartment knee joint contact force during cycling. <i>Journal of Biomechanics</i> , <b>2021</b> , 118, 110271	2.9	1
16	Efficacy of lumbar and lumbosacral orthoses in restricting spinal ROMs. <i>Journal of Back and Musculoskeletal Rehabilitation</i> , <b>2006</b> , 19, 49-56	1.4	0
15	Altered biomechanics in bilateral total knee replacement patients during stair negotiation. <i>Knee</i> , <b>2021</b> , 34, 9-16	2.6	0
14	Effects of synthetic turf and shock pad on impact attenuation related biomechanics during drop landing. <i>Sports Biomechanics</i> , <b>2020</b> , 1-13	2.2	0
13	Can changes of workrate and seat position affect frontal and sagittal plane knee biomechanics in recumbent cycling?. <i>Sports Biomechanics</i> , <b>2021</b> , 1-16	2.2	0
12	Participation in some sports, not running, increases risk of knee and hip osteoarthritis. <i>Journal of Sport and Health Science</i> , <b>2014</b> , 3, 225-226	8.2	

- 11 Gait biomechanics of a second generation unstable shoe. *Journal of Applied Biomechanics*, **2014**, 30, 501-7.2
- 10 Alterations in neuromuscular activation patterns associated with walking in short-leg walking boots. *Journal of Sport and Health Science*, **2012**, 1, 43-48 8.2
- 9 Ankle Brace with a Calcaneal Strapping System Alters COP Displacement During Gait. *Medicine and Science in Sports and Exercise*, **2010**, 42, 392 1.2
- 8 Is Knee Strength Related to Knee OA Symptoms Using Data from the Osteoarthritis Initiative?. *Medicine and Science in Sports and Exercise*, **2010**, 42, 97 1.2
- 7 Lower Extremity Kinetics in High and Low-Arched Athletes during Landing. *Medicine and Science in Sports and Exercise*, **2010**, 42, 681 1.2
- 6 Effects of Orthotic Inserts on Lower Extremity Kinematics During Treadmill Running. *Medicine and Science in Sports and Exercise*, **2004**, 36, S236 1.2
- 5 Effects of Heel Height Modifications of Basketball Shoe on Joint Kinetics in Jumping. *Medicine and Science in Sports and Exercise*, **2008**, 40, S378 1.2
- 4 Rounding the base: A lower extremity biomechanical analysis in softball players. *International Journal of Sports Science and Coaching*, 174795412110082 1.8
- 3 Overground Walking Biomechanics of Dissatisfied Persons With Total Knee Replacements. *Journal of Applied Biomechanics*, **2021**, 37, 365-372 1.2
- 2 Medial and Lateral Tibiofemoral Compressive Forces in Patients Following Unilateral Total Knee Arthroplasty During Stationary Cycling.. *Journal of Applied Biomechanics*, **2022**, 1-11 1.2
- 1 Knee and ankle biomechanics in 90° side cutting on synthetic turf with shock pad. *Footwear Science*, 1-11 1.4