

Songning Zhang

List of Publications by Year in descending order

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Version: 2024-02-01

112
papers

1,669
citations

361045

20
h-index

315357

38
g-index

113
all docs

113
docs citations

113
times ranked

1557
citing authors

#	ARTICLE	IF	CITATIONS
1	Contributions of lower extremity joints to energy dissipation during landings. <i>Medicine and Science in Sports and Exercise</i> , 2000, 32, 812-819.	0.2	362
2	Acute effects of barefoot, minimal shoes and running shoes on lower limb mechanics in rear and forefoot strike runners. <i>Footwear Science</i> , 2013, 5, 9-18.	0.8	90
3	A comparison of gait biomechanics of flip-flops, sandals, barefoot and shoes. <i>Journal of Foot and Ankle Research</i> , 2013, 6, 45.	0.7	64
4	Effects of Various Midsole Densities of Basketball Shoes on Impact Attenuation during Landing Activities. <i>Journal of Applied Biomechanics</i> , 2005, 21, 3-17.	0.3	54
5	Associations between iliotibial band injury status and running biomechanics in women. <i>Gait and Posture</i> , 2015, 41, 706-710.	0.6	50
6	Frontal plane multi-segment foot kinematics in high- and low-arched females during dynamic loading tasks. <i>Human Movement Science</i> , 2011, 30, 105-114.	0.6	48
7	Simple verbal instruction improves knee biomechanics during landing in female athletes. <i>Knee</i> , 2012, 19, 399-403.	0.8	48
8	Effects of local elastic compression on muscle strength, electromyographic, and mechanomyographic responses in the lower extremity. <i>Journal of Electromyography and Kinesiology</i> , 2012, 22, 44-50.	0.7	46
9	The influence of body mass index and velocity on knee biomechanics during walking. <i>Gait and Posture</i> , 2013, 37, 575-579.	0.6	44
10	Shock and impact reduction in moderate and strenuous landing activities. <i>Sports Biomechanics</i> , 2008, 7, 296-309.	0.8	43
11	Evaluation of efficacy and 3D kinematic characteristics of cervical orthoses. <i>Clinical Biomechanics</i> , 2005, 20, 264-269.	0.5	41
12	Ground reaction force and 3D biomechanical characteristics of walking in short-leg walkers. <i>Gait and Posture</i> , 2006, 24, 487-492.	0.6	35
13	Changing step width alters lower extremity biomechanics during running. <i>Gait and Posture</i> , 2014, 39, 124-128.	0.6	35
14	Effects of resistance and Tai Ji training on mobility and symptoms in knee osteoarthritis patients. <i>Journal of Sport and Health Science</i> , 2013, 2, 209-214.	3.3	32
15	Ankle work and dynamic joint stiffness in high- compared to low-arched athletes during a barefoot running task. <i>Human Movement Science</i> , 2014, 34, 147-156.	0.6	29
16	Greater Step Widths Reduce Internal Knee Abduction Moments in Medial Compartment Knee Osteoarthritis Patients During Stair Ascent. <i>Journal of Applied Biomechanics</i> , 2015, 31, 229-236.	0.3	29
17	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> , 2009, 39, 875-883.	1.7	28
18	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> , 2016, 49, 3047-3051.	0.9	27

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19	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> , 2017, 24, 1326-1334.	0.8	27
20	The effects of sample size and variability on the correlation coefficient. <i>Medicine and Science in Sports and Exercise</i> , 1996, 28, 386-391.	0.2	24
21	Effects of increased step width on frontal plane knee biomechanics in healthy older adults during stair descent. <i>Knee</i> , 2014, 21, 821-826.	0.8	23
22	Do thigh circumference and mass changes alter knee biomechanics during walking?. <i>Gait and Posture</i> , 2013, 37, 359-362.	0.6	20
23	Stair Ambulation Biomechanics Following Total Knee Arthroplasty: A Systematic Review. <i>Journal of Arthroplasty</i> , 2014, 29, 1857-1862.	1.5	20
24	Effects of Toe-In and Wider Step Width in Stair Ascent with Different Knee Alignments. <i>Medicine and Science in Sports and Exercise</i> , 2017, 49, 563-572.	0.2	20
25	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> , 2012, 1, 114-120.	3.3	19
26	Effects of toe-in angles on knee biomechanics in cycling of patients with medial knee osteoarthritis. <i>Clinical Biomechanics</i> , 2015, 30, 276-282.	0.5	19
27	Influence of Total Knee Arthroplasty on Gait Mechanics of the Replaced and Non-Replaced Limb During Stair Negotiation. <i>Journal of Arthroplasty</i> , 2016, 31, 278-283.	1.5	19
28	The effects of sample size and variability on the correlation coefficient. <i>Medicine and Science in Sports and Exercise</i> , 1996, 28, 386-391.	0.2	17
29	Is the Inverted Surface Landing More Suitable in Evaluating Ankle Braces and Ankle Inversion Perturbation?. <i>Clinical Journal of Sport Medicine</i> , 2012, 22, 214-220.	0.9	16
30	Effects of Workloads and Cadences on Frontal Plane Knee Biomechanics in Cycling. <i>Medicine and Science in Sports and Exercise</i> , 2016, 48, 260-266.	0.2	15
31	Is knee biomechanics different in uphill walking on different slopes for older adults with total knee replacement?. <i>Journal of Biomechanics</i> , 2019, 89, 40-47.	0.9	15
32	Knee Joint Loads and Surrounding Muscle Forces during Stair Ascent in Patients with Total Knee Replacement. <i>PLoS ONE</i> , 2016, 11, e0156282.	1.1	15
33	Examination of femoral-neck structure using finite element model and bone mineral density using dual-energy X-ray absorptiometry. <i>Clinical Biomechanics</i> , 2009, 24, 47-52.	0.5	14
34	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> , 2014, 75, 544-553.	0.3	14
35	Does increasing step width alter knee biomechanics in medial compartment knee osteoarthritis patients during stair descent?. <i>Knee</i> , 2014, 21, 676-682.	0.8	14
36	Acute effects of lateral shoe wedges on joint biomechanics of patients with medial compartment knee osteoarthritis during stationary cycling. <i>Journal of Biomechanics</i> , 2016, 49, 2817-2823.	0.9	14

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37	Knee biomechanics during popular recreational and daily activities in older men. <i>Knee</i> , 2014, 21, 683-687.	0.8	13
38	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> , 2018, 140, .	0.6	13
39	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> , 2013, 43, 486-494.	1.7	12
40	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> , 2014, 75, 554-564.	0.3	12
41	Increased knee loading in stair ambulation in patients dissatisfied with their total knee replacement. <i>Clinical Biomechanics</i> , 2019, 67, 38-44.	0.5	12
42	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> , 2015, 31, 309-317.	0.3	11
43	Effects of modified short-leg walkers on ground reaction force characteristics. <i>Clinical Biomechanics</i> , 2008, 23, 1172-1177.	0.5	10
44	An unstable rocker-bottom shoe alters lower extremity biomechanics during level walking. <i>Footwear Science</i> , 2012, 4, 243-253.	0.8	10
45	Wide step width reduces knee abduction moment of obese adults during stair negotiation. <i>Journal of Biomechanics</i> , 2018, 75, 138-146.	0.9	10
46	Lower-limb joint reaction forces and moments during modified cycling in healthy controls and individuals with knee osteoarthritis. <i>Clinical Biomechanics</i> , 2020, 71, 167-175.	0.5	10
47	A Finite Element Model for Estimation of Contact Dynamics During a Jumping Movement on a Trampoline. <i>Journal of Human Kinetics</i> , 2020, 73, 59-72.	0.7	9
48	Effects of two football stud configurations on biomechanical characteristics of single-leg landing and cutting movements on infilled synthetic turf. <i>Sports Biomechanics</i> , 2014, 13, 362-379.	0.8	8
49	Effect of a combined inversion and plantarflexion surface on ankle kinematics and EMG activities in landing. <i>Journal of Sport and Health Science</i> , 2015, 4, 377-383.	3.3	8
50	Knee joint biomechanics of patients with unilateral total knee arthroplasty during stationary cycling. <i>Journal of Biomechanics</i> , 2021, 115, 110111.	0.9	8
51	Knee biomechanics of patients with total knee replacement during downhill walking on different slopes. <i>Journal of Sport and Health Science</i> , 2022, 11, 50-57.	3.3	8
52	Effects of Vertical Loading on Arch Characteristics and Intersegmental Foot Motions. <i>Journal of Applied Biomechanics</i> , 2012, 28, 165-173.	0.3	7
53	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> , 2013, 32, 1299-1309.	0.6	7
54	Effects of a multichannel dynamic functional electrical stimulation system on hemiplegic gait and muscle forces. <i>Journal of Physical Therapy Science</i> , 2015, 27, 3541-3544.	0.2	7

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55	Effectiveness of Selected Fitness Exercises on Stress of Femoral Neck using Musculoskeletal Dynamics Simulations and Finite Element Model. <i>Journal of Human Kinetics</i> , 2014, 41, 59-70.	0.7	6
56	Increased Q-Factor increases frontal-plane knee joint loading in stationary cycling. <i>Journal of Sport and Health Science</i> , 2020, 9, 258-264.	3.3	6
57	Does saddle height influence knee frontal-plane biomechanics during stationary cycling?. <i>Knee</i> , 2021, 29, 233-240.	0.8	6
58	Knee biomechanics of selected knee-unfriendly movement elements in 42-form Tai Chi. <i>International Journal of Performance Analysis in Sport</i> , 2018, 18, 1050-1066.	0.5	5
59	Effects of Knee Alignments and Toe Clip on Frontal Plane Knee Biomechanics in Cycling. <i>Journal of Sports Science and Medicine</i> , 2018, 17, 312-321.	0.7	5
60	Recent developments on models and inclusion criteria for chronic ankle instability. <i>Journal of Sport and Health Science</i> , 2012, 1, 170-171.	3.3	4
61	Effects of synthetic turf and shock pad on impact attenuation related biomechanics during drop landing. <i>Sports Biomechanics</i> , 2022, 21, 748-760.	0.8	4
62	Rounding the base: A lower extremity biomechanical analysis in softball players. <i>International Journal of Sports Science and Coaching</i> , 2021, 16, 1322-1331.	0.7	3
63	Are Medial and Lateral Tibiofemoral Compressive Forces Different in Uphill Compared to Level Walking for Patients Following Total Knee Arthroplasty?. <i>Journal of Biomechanical Engineering</i> , 2021, 143, .	0.6	3
64	Efficacy of lumbar and lumbosacral orthoses in restricting spinal ROMs. <i>Journal of Back and Musculoskeletal Rehabilitation</i> , 2006, 19, 49-56.	0.4	2
65	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> , 2012, 31, 45-53.	0.7	2
66	Effects of a combined inversion and plantarflexion surface on knee and hip kinematics during landing. <i>Sports Biomechanics</i> , 2016, 15, 429-439.	0.8	2
67	Increased Q-factor increases medial compartment knee joint contact force during cycling. <i>Journal of Biomechanics</i> , 2021, 118, 110271.	0.9	2
68	Principal Component Analysis of Knee Joint Differences Between Bilateral and Unilateral Total Knee Replacement Patients During Level Walking. <i>Journal of Biomechanical Engineering</i> , 2021, 143, .	0.6	2
69	Can changes of workrate and seat position affect frontal and sagittal plane knee biomechanics in recumbent cycling?. <i>Sports Biomechanics</i> , 2021, , 1-16.	0.8	2
70	A New Device for Simulating Athlete-to-Surface Interactions on Natural and Synthetic Turf. <i>Journal of Testing and Evaluation</i> , 2013, 41, 497-503.	0.4	2
71	Alterations in neuromuscular activation patterns associated with walking in short-leg walking boots. <i>Journal of Sport and Health Science</i> , 2012, 1, 43-48.	3.3	1
72	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> , 2013, 2, 158-159.	3.3	1

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73	Gait Biomechanics of a Second Generation Unstable Shoe. <i>Journal of Applied Biomechanics</i> , 2014, 30, 501-507.	0.3	1
74	Effects of Workload on Frontal Plane Knee Biomechanics during Cycling. <i>Medicine and Science in Sports and Exercise</i> , 2015, 47, 87.	0.2	1
75	Effects of Saddle Height and Workrate on Frontal Plane Knee Joint Biomechanics. <i>Medicine and Science in Sports and Exercise</i> , 2019, 51, 53-53.	0.2	1
76	Altered biomechanics in bilateral total knee replacement patients during stair negotiation. <i>Knee</i> , 2022, 34, 9-16.	0.8	1
77	Medial and Lateral Tibiofemoral Compressive Forces in Patients Following Unilateral Total Knee Arthroplasty During Stationary Cycling. <i>Journal of Applied Biomechanics</i> , 2022, 38, 179-189.	0.3	1
78	Knee and ankle biomechanics in 90° side cutting on synthetic turf with shock pad. <i>Footwear Science</i> , 2022, 14, 173-183.	0.8	1
79	Unique Joint Kinetic Patterns of Short-Leg Walkers in Gait. <i>Medicine and Science in Sports and Exercise</i> , 2006, 38, S172.	0.2	0
80	Changes in Ground Reaction Forces in Modified Short-leg Walkers during Gait. <i>Medicine and Science in Sports and Exercise</i> , 2007, 39, S150-S151.	0.2	0
81	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> , 2008, 1, .	0.7	0
82	Ankle Brace with a Calcaneal Strapping System Alters COP Displacement During Gait. <i>Medicine and Science in Sports and Exercise</i> , 2010, 42, 392.	0.2	0
83	Is Knee Strength Related to Knee OA Symptoms Using Data from the Osteoarthritis Initiative?. <i>Medicine and Science in Sports and Exercise</i> , 2010, 42, 97.	0.2	0
84	Lower Extremity Kinetics in High and Low-Arched Athletes during Landing. <i>Medicine and Science in Sports and Exercise</i> , 2010, 42, 681.	0.2	0
85	Electromyographic Responses of Ankle Muscles during Landing on a Combined Inversion and Plantarflexion Surface. <i>Medicine and Science in Sports and Exercise</i> , 2010, 42, 679.	0.2	0
86	Effects of Resistance Training and Taiji Exercise on Symptoms and Physical Functions of Knee Osteoarthritis. <i>Medicine and Science in Sports and Exercise</i> , 2011, 43, 826.	0.2	0
87	The Influence of Body Mass Index on Biomechanical Risk Factors for Osteoarthritis during Walking. <i>Medicine and Science in Sports and Exercise</i> , 2011, 43, 689.	0.2	0
88	A Comparative Investigation Of Fivefingers With Barefoot And Shoes In Rear-foot Strikers. <i>Medicine and Science in Sports and Exercise</i> , 2011, 43, 60.	0.2	0
89	Participation in some sports, not running, increases risk of knee and hip osteoarthritis. <i>Journal of Sport and Health Science</i> , 2014, 3, 225-226.	3.3	0
90	Effects of Pose Heights of Selected Knee Unfriendly Tai Ji Movement Elements on Knee Biomechanics. <i>Medicine and Science in Sports and Exercise</i> , 2015, 47, 84.	0.2	0

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91	Acute effects of barefoot, minimal shoes and running shoes on lower limb mechanics in rear and forefoot strike runners. <i>Footwear Science</i> , 2015, 7, 191-191.	0.8	0
92	Overground Walking Biomechanics of Dissatisfied Persons With Total Knee Replacements. <i>Journal of Applied Biomechanics</i> , 2021, 37, 365-372.	0.3	0
93	Effects of Orthotic Inserts on Lower Extremity Kinematics During Treadmill Running. <i>Medicine and Science in Sports and Exercise</i> , 2004, 36, S236.	0.2	0
94	Longitudinal Perception about Cushioning, Fit, and Comfort of a Running Shoe over 400 Miles. <i>Medicine and Science in Sports and Exercise</i> , 2004, 36, S267.	0.2	0
95	Effects of Orthotic Inserts on Lower Extremity Kinematics During Treadmill Running. <i>Medicine and Science in Sports and Exercise</i> , 2004, 36, S236.	0.2	0
96	Longitudinal Perception about Cushioning, Fit, and Comfort of a Running Shoe over 400 Miles. <i>Medicine and Science in Sports and Exercise</i> , 2004, 36, S267.	0.2	0
97	Impact Attenuation And Kinetic Characteristics Of Cross Training Shoes In Landing And Jumping Activities. <i>Medicine and Science in Sports and Exercise</i> , 2005, 37, S215.	0.2	0
98	Impact Attenuation And Kinetic Characteristics Of Cross Training Shoes In Landing And Jumping Activities. <i>Medicine and Science in Sports and Exercise</i> , 2005, 37, S215.	0.2	0
99	Effects Of Two Different Landing Protocols On Evaluating Impact Attenuation In Landing. <i>Medicine and Science in Sports and Exercise</i> , 2005, 37, S66.	0.2	0
100	Effects Of Two Different Landing Protocols On Evaluating Impact Attenuation In Landing. <i>Medicine and Science in Sports and Exercise</i> , 2005, 37, S66.	0.2	0
101	Effects of Heel Height Modifications of Basketball Shoe on Joint Kinetics in Jumping. <i>Medicine and Science in Sports and Exercise</i> , 2008, 40, S378.	0.2	0
102	Evaluating Symmetry Of Healthy Participants During Landing. <i>Medicine and Science in Sports and Exercise</i> , 2009, 41, 89.	0.2	0
103	Relationship Between Eccentric Knee Strength And Impact Force Attenuation In Drop Landing. <i>Medicine and Science in Sports and Exercise</i> , 2009, 41, 391.	0.2	0
104	Differences In Impact Force Attenuation And Knee Kinematics During Drop Jump And Drop Landing. <i>Medicine and Science in Sports and Exercise</i> , 2009, 41, 457-458.	0.2	0
105	Biomechanical Outcomes of Stair Ascent and Functional Tests Following Total Knee Replacement. <i>Medicine and Science in Sports and Exercise</i> , 2014, 46, 445.	0.2	0
106	Effect Of Gender And Increasing Treadmill Velocity On Peak Ankle Plantarflexor Powers During Level Walking. <i>Medicine and Science in Sports and Exercise</i> , 2014, 46, 416.	0.2	0
107	Knee and Ankle Biomechanics during Level Walking Both Prior to and Following a Stroke. <i>Medicine and Science in Sports and Exercise</i> , 2016, 48, 399.	0.2	0
108	Knee Joint Loads and Surrounding Muscle Forces of Selected Movement Elements in 42-form Tai Ji. <i>Medicine and Science in Sports and Exercise</i> , 2016, 48, 891.	0.2	0

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109	Knee Biomechanics of Replaced and Non-replaced Limbs during Level Walking Following Total Knee Arthroplasty. <i>Medicine and Science in Sports and Exercise</i> , 2016, 48, 885.	0.2	0
110	Effects Of Knee Varus Alignment On Knee Frontal Plane Biomechanics During Stationary Cycling. <i>Medicine and Science in Sports and Exercise</i> , 2016, 48, 886.	0.2	0
111	Knee Medial Compartment Joint Loads In Stationary Cycling With Increased Q-factor. <i>Medicine and Science in Sports and Exercise</i> , 2020, 52, 254-254.	0.2	0
112	Knee Kinetics Of Patients With Different Types Of Total Knee Arthroplasty Implants During Downhill Walking. <i>Medicine and Science in Sports and Exercise</i> , 2020, 52, 351-351.	0.2	0