Karen L Troy

List of Publications by Year
in descending order

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		218662	289230
67	1,886	26	40
papers	citations	h-index	g-index

74	74	74	2013
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Effect of external mechanical stimuli on human bone: a narrative review. Progress in Biomedical Engineering, 2022, 4, 012006.	4.9	3
2	Force Anticipation and Its Potential Implications on Feedforward and Feedback Human Motor Control. Human Factors, 2021, 63, 647-662.	3.5	4
3	A Narrative Review of Metatarsal Bone Stress Injury in Athletic Populations: Etiology, Biomechanics, and Management. PM and R, 2021, 13, 1281-1290.	1.6	6
4	Functional electrical stimulation (FES)â€“assisted rowing combined with zoledronic acid, but not alone, preserves distal femur strength and stiffness in people with chronic spinal cord injury. Osteoporosis International, 2021, 32, 549-558.	3.1	8
5	Dominant and nondominant distal radius microstructure: Predictors of asymmetry and effects of a unilateral mechanical loading intervention. Bone Reports, 2021, 14, 101012.	0.4	1
6	hsa-MiR-19a-3p and hsa-MiR-19b-3p Are Associated with Spinal Cord Injury-Induced Neuropathic Pain: Findings from a Genome-Wide MicroRNA Expression Profiling Screen. Neurotrauma Reports, 2021, 2, 424-439.	1.4	13
7	Running-related injury: How long does it take? Feasibility, preliminary evaluation, and German translation of the University of Wisconsin running and recovery index. Physical Therapy in Sport, 2021, 52, 204-208.	1.9	6
8	Radiographic Pattern to Recognize Overuse Injury in Runners: The Ipsilateral Pubic Ramus and Sacral Bone Stress Injury. PM and R, 2020, 12, 1279-1280.	1.6	1
9	Bone Adaptation in Adult Women Is Related to Loading Dose: A 12â€Month Randomized Controlled Trial. Journal of Bone and Mineral Research, 2020, 35, 1300-1312.	2.8	21
10	Relating Bone Strain to Local Changes in Radius Microstructure Following 12 Months of Axial Forearm Loading in Women. Journal of Biomechanical Engineering, 2020, 142, .	1.3	14
11	Bone Mineral Density Testing in Spinal Cord Injury: 2019 ISCD Official Position. Journal of Clinical Densitometry, 2019, 22, 554-566.	1.2	56
12	An image-based method to measure joint deformity in inflammatory arthritis: development and pilot study. Computer Methods in Biomechanics and Biomedical Engineering, 2019, 22, 942-952.	1.6	7
13	Effects of loading rate on the of mechanical behavior of the femur in falling condition. Journal of the Mechanical Behavior of Biomedical Materials, 2019, 96, 269-278.	3.1	14
14	Distal radius microstructure and finite element bone strain are related to site-specific mechanical loading and areal bone mineral density in premenopausal women. Bone Reports, 2018, 8, 187-194.	0.4	12
15	Practical considerations for obtaining high quality quantitative computed tomography data of the skeletal system. Bone, 2018, 110, 58-65.	2.9	19
16	Advancing quantitative techniques to improve understanding of the skeletal structure-function relationship. Journal of NeuroEngineering and Rehabilitation, 2018, 15, 25.	4.6	5
17	Simplified boundary conditions alter cortical-trabecular load sharing at the distal radius; A multiscale finite element analysis. Journal of Biomechanics, 2018, 66, 180-185.	2.1	10
18	Bad to the Bone: Multifaceted Enrichment of Open-Ended Biomechanics Class Projects. Journal of Biomechanical Engineering, 2018, 140, .	1.3	0

#	Article	IF	Citations
19	Circum-menarcheal bone acquisition is stress-driven: A longitudinal study in adolescent female gymnasts and non-gymnasts. Journal of Biomechanics, 2018, 78, 45-51.	2.1	5
20	Exercise Early and Often: Effects of Physical Activity and Exercise on Womenâ€™s Bone Health. International Journal of Environmental Research and Public Health, 2018, 15, 878.	2.6	111
21	Moderate-to-heavy smoking in women is potentially associated with compromised cortical porosity and stiffness at the distal radius. Archives of Osteoporosis, 2018, 13, 89.	2.4	5
22	Effects of Teriparatide and Vibration on Bone Mass and Bone Strength in People with Bone Loss and Spinal Cord Injury: A Randomized, Controlled Trial. Journal of Bone and Mineral Research, 2018, 33, 1729-1740.	2.8	54
23	Anthropometric and biomechanical characteristics of body segments in persons with spinal cord injury. Journal of Biomechanics, 2017, 55, 11-17.	2.1	14
24	Validation of a new multiscale finite element analysis approach at the distal radius. Medical Engineering and Physics, 2017, 44, 16-24.	1.7	23
25	Is Atypical Bisphosphonate Treatment Response a Risk Factor for Atypical Femoral Fracture?. Journal of Bone and Joint Surgery - Series A, 2017, 99, e105.	3.0	1
26	Trabecular bone in the calcaneus of runners. PLoS ONE, 2017, 12, e0188200.	2.5	25
27	Assessing the prevalence of compromised bone health among overweight and obese African-American breast cancer survivors: a caseâ€“control study. Journal of Cancer Survivorship, 2016, 10, 21-30.	2.9	10
28	An exercise trial targeting posterior shoulder strength in manual wheelchair users: pilot results and lessons learned. Disability and Rehabilitation: Assistive Technology, 2015, 10, 415-420.	2.2	5
29	Response to Dr Khursheed Jeejeebhoy. Journal of Parenteral and Enteral Nutrition, 2015, 39, 271-272.	2.6	0
30	Reduction in Torsional Stiffness and Strength at the Proximal Tibia as a Function of Time Since Spinal Cord Injury. Journal of Bone and Mineral Research, 2015, 30, 1422-1430.	2.8	30
31	Short-Term Bone Formation is Greatest Within High Strain Regions of the Human Distal Radius: A Prospective Pilot Study. Journal of Biomechanical Engineering, 2015, 137, .	1.3	22
32	Measurement of Bone: Diagnosis of SCI-Induced Osteoporosis and Fracture Risk Prediction. Topics in Spinal Cord Injury Rehabilitation, 2015, 21, 267-274.	1.8	34
33	Dual energy X-ray absorptiometry of the knee in spinal cord injury: methodology and correlation with quantitative computed tomography. Spinal Cord, 2014, 52, 821-825.	1.9	28
34	Reduction in Proximal Femoral Strength in Patients With Acute Spinal Cord Injury. Journal of Bone and Mineral Research, 2014, 29, 2074-2079.	2.8	36
35	Exercise-Based Fall Prevention. Exercise and Sport Sciences Reviews, 2014, 42, 161-168.	3.0	75
36	Exploitation of Diagnostic Computed Tomography Scans to Assess the Impact of Nutrition Support on Body Composition Changes in Respiratory Failure Patients. Journal of Parenteral and Enteral Nutrition, 2014, 38, 880-885.	2.6	51

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37	The mechanical consequence of actual bone loss and simulated bone recovery in acute spinal cord injury. Bone, 2014, 60, 141-147.	2.9	31
38	Bone mineral and stiffness loss at the distal femur and proximal tibia in acute spinal cord injury. Osteoporosis International, 2014, 25, 1005-1015.	3.1	59
39	The Prevalence of Sarcopenia in Patients With Respiratory Failure Classified as Normally Nourished Using Computed Tomography and Subjective Global Assessment. Journal of Parenteral and Enteral Nutrition, 2014, 38, 873-879.	2.6	110
40	Predicting surface strains at the human distal radius during an in vivo loading task â€" Finite element model validation and application. Journal of Biomechanics, 2014, 47, 2759-2765.	2.1	23
41	Bone mineral loss at the proximal femur in acute spinal cord injury. Osteoporosis International, 2013, 24, 2461-2469.	3.1	33
42	Torsional stiffness and strength of the proximal tibia are better predicted by finite element models than DXA or QCT. Journal of Biomechanics, 2013, 46, 1655-1662.	2.1	51
43	ADAMTS5 is required for biomechanicallyâ€stimulated healing of murine tendinopathy. Journal of Orthopaedic Research, 2013, 31, 1540-1548.	2.3	17
44	In vivo loading model to examine bone adaptation in humans: A pilot study. Journal of Orthopaedic Research, 2013, 31, 1406-1413.	2.3	21
45	A linear-actuated torsional device to replicate clinically relevant spiral fractures in long bones. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2012, 226, 729-733.	1.8	3
46	Task-Specific Training Reduces Trip-Related Fall Risk in Women. Medicine and Science in Sports and Exercise, 2012, 44, 2410-2414.	0.4	98
47	Finite element prediction of surface strain and fracture strength at the distal radius. Medical Engineering and Physics, 2012, 34, 290-298.	1.7	55
48	Fear of Falling Does Not Alter the Kinematics of Recovery From an Induced Trip: A Preliminary Study. Archives of Physical Medicine and Rehabilitation, 2011, 92, 2093-2095.	0.9	9
49	On the filtering of intersegmental loads during running. Gait and Posture, 2011, 34, 435-438.	1.4	28
50	Number Crunching: How and When Will Numerical Models Be Used in the Clinical Setting?. Current Osteoporosis Reports, 2011, 9, 1-3.	3.6	4
51	Biomechanical validation of upper extremity exercise in wheelchair users: design considerations and improvements in a prototype device. Disability and Rehabilitation: Assistive Technology, 2011, 6, 22-28.	2.2	4
52	Simulating Distal Radius Fracture Strength Using Biomechanical Tests: A Modeling Study Examining the Influence of Boundary Conditions. Journal of Biomechanical Engineering, 2011, 133, 114501.	1.3	14
53	Theoretical contribution of the upper extremities to reducing trunk extension following a laboratory-induced slip. Journal of Biomechanics, 2009, 42, 1339-1344.	2.1	38
54	Contact stress distributions on the femoral head of the emu (Dromaius novaehollandiae). Journal of Biomechanics, 2009, 42, 2495-2500.	2.1	13

#	ARTICLE	IF	CITATIONS
55	Effects of an attention demanding task on dynamic stability during treadmill walking. Journal of NeuroEngineering and Rehabilitation, 2008, 5, 12.	4.6	50
56	Trunk kinematics and fall risk of older adults: Translating biomechanical results to the clinic. Journal of Electromyography and Kinesiology, 2008, 18, 197-204.	1.7	120
57	Modifiable performance domain risk-factors associated with slip-related falls. Gait and Posture, 2008, 28, 461-465.	1.4	37
58	Habitual Site-Specific Upper Extremity Loading is Associated with Increased Bone Mineral of the Ultradistal Radius in Young Women. Journal of Women's Health, 2008, 17, 1577-1581.	3.3	10
59	Asymmetrical ground impact of the hands after a trip-induced fall: Experimental kinematics and kinetics. Clinical Biomechanics, 2007, 22, 1088-1095.	1.2	26
60	Off-axis loads cause failure of the distal radius at lower magnitudes than axial loads: A finite element analysis. Journal of Biomechanics, 2007, 40, 1670-1675.	2.1	66
61	Habitual hip joint activity level of the penned EMU (Dromaius novaehollandie). Iowa orthopaedic journal, The, 2007, 27, 17-23.	0.5	9
62	Recovery responses to surrogate slipping tasks differ from responses to actual slips. Gait and Posture, 2006, 24, 441-447.	1.4	43
63	Bone mineral density of the proximal femur is not related to dynamic joint loading during locomotion in young women. Bone, 2006, 38, 125-129.	2.9	16
64	The presence of an obstacle influences the stepping response during induced trips and surrogate tasks. Experimental Brain Research, 2005, 161, 343-350.	1.5	35
65	Attention demanding tasks during treadmill walking reduce step width variability in young adults. Journal of NeuroEngineering and Rehabilitation, 2005, 2, 25.	4.6	72
66	Osteocyte-based Image Analysis for Quantitation of Histologically Apparent Femoral Head Osteonecrosis: Application to an Emu Model. Computer Methods in Biomechanics and Biomedical Engineering, 2004, 7, 25-32.	1.6	6
67	Focal cryogen insults for inducing segmental osteonecrosis: computational and experimental assessments of thermal fields. Journal of Biomechanics, 2003, 36, 1317-1326.	2.1	34