

Janet L Ronsky

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72
papers

1,711
citations

24
h-index

40
g-index

82
ext. papers

1,925
ext. citations

3.4
avg, IF

4.26
L-index

#	Paper	IF	Citations
72	Application of the joint coordinate system to three-dimensional joint attitude and movement representation: a standardization proposal. <i>Journal of Biomechanical Engineering</i> , 1993 , 115, 344-9	2.1	347
71	Sensitivity of a Hill-based muscle model to perturbations in model parameters. <i>Journal of Biomechanics</i> , 2006 , 39, 2055-63	2.9	139
70	Changing hormone levels during the menstrual cycle affect knee laxity and stiffness in healthy female subjects. <i>American Journal of Sports Medicine</i> , 2009 , 37, 588-98	6.8	80
69	Alterations in knee joint laxity during the menstrual cycle in healthy women leads to increases in joint loads during selected athletic movements. <i>American Journal of Sports Medicine</i> , 2009 , 37, 1169-77	6.8	69
68	In vivo measurement of the dynamic 3-D kinematics of the ovine stifle joint. <i>Journal of Biomechanical Engineering</i> , 2004 , 126, 301-5	2.1	63
67	Reliability of trunk shape measurements based on 3-D surface reconstructions. <i>European Spine Journal</i> , 2007 , 16, 1882-91	2.7	61
66	Dynamic in vivo kinematics of the intact ovine stifle joint. <i>Journal of Orthopaedic Research</i> , 2006 , 24, 782-92	3.2	54
65	Tie-fibre structure and organization in the knee menisci. <i>Journal of Anatomy</i> , 2014 , 224, 531-7	2.9	53
64	Establishing outcome measures in early knee osteoarthritis. <i>Nature Reviews Rheumatology</i> , 2019 , 15, 438-448	8.1	50
63	Relationship between knee joint laxity and knee joint mechanics during the menstrual cycle. <i>British Journal of Sports Medicine</i> , 2009 , 43, 174-9	10.3	46
62	Indices of torso asymmetry related to spinal deformity in scoliosis. <i>Clinical Biomechanics</i> , 2002 , 17, 559-68.2	6.2	45
61	Clinical impact of optical imaging with 3-D reconstruction of torso topography in common anterior chest wall anomalies. <i>Journal of Pediatric Surgery</i> , 2007 , 42, 898-903	2.6	44
60	Measuring knee joint laxity: a review of applicable models and the need for new approaches to minimize variability. <i>Clinical Biomechanics</i> , 2007 , 22, 1-13	2.2	42
59	Dynamic in vivo three-dimensional (3D) kinematics of the anterior cruciate ligament/medial collateral ligament transected ovine stifle joint. <i>Journal of Orthopaedic Research</i> , 2008 , 26, 660-72	3.8	41
58	Estimation of spinal deformity in scoliosis from torso surface cross sections. <i>Spine</i> , 2001 , 26, 1583-91	3.3	41
57	The shocking truth about meniscus. <i>Journal of Biomechanics</i> , 2011 , 44, 2737-40	2.9	38
56	In vivo quantification of the cat patellofemoral joint contact stresses and areas. <i>Journal of Biomechanics</i> , 1995 , 28, 977-83	2.9	37

55	Orientation of tendons in vivo with active and passive knee muscles. <i>Journal of Biomechanics</i> , 2005 , 38, 1780-8	2.9	33
54	Reproduction of in vivo motion using a parallel robot. <i>Journal of Biomechanical Engineering</i> , 2007 , 129, 743-9	2.1	32
53	Modeling axi-symmetrical joint contact with biphasic cartilage layers--an asymptotic solution. <i>Journal of Biomechanics</i> , 1996 , 29, 1263-81	2.9	31
52	Reconstruction of laser-scanned 3D torso topography and stereoradiographical spine and rib-cage geometry in scoliosis. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2000 , 4, 59-75	2.1	29
51	An evaluation of meniscal collagenous structure using optical projection tomography. <i>BMC Medical Imaging</i> , 2013 , 13, 21	2.9	28
50	Prediction of anterior scoliotic spinal curve from trunk surface using support vector regression. <i>Engineering Applications of Artificial Intelligence</i> , 2005 , 18, 973-983	7.2	28
49	Genetic algorithm-neural network estimation of cobb angle from torso asymmetry in scoliosis. <i>Journal of Biomechanical Engineering</i> , 2002 , 124, 496-503	2.1	24
48	Instantaneous moment arm determination of the cat knee. <i>Journal of Biomechanics</i> , 1998 , 31, 279-83	2.9	23
47	Swelling significantly affects the material properties of the menisci in compression. <i>Journal of Biomechanics</i> , 2015 , 48, 1485-9	2.9	18
46	ACL/MCL transection affects knee ligament insertion distance of healing and intact ligaments during gait in the Ovine model. <i>Journal of Biomechanics</i> , 2009 , 42, 1825-33	2.9	18
45	Rigorous geometric self-calibrating bundle adjustment for a dual fluoroscopic imaging system. <i>IEEE Transactions on Medical Imaging</i> , 2015 , 34, 589-98	11.7	16
44	Time series spinal radiographs as prognostic factors for scoliosis and progression of spinal deformities. <i>European Spine Journal</i> , 2011 , 20, 112-7	2.7	14
43	Navigational strategies during fast walking: a comparison between trained athletes and non-athletes. <i>Gait and Posture</i> , 2007 , 26, 539-45	2.6	12
42	Effect of stochastic resonance on proprioception and kinesthesia in anterior cruciate ligament reconstructed patients. <i>Journal of Biomechanics</i> , 2019 , 84, 52-57	2.9	10
41	A geometric approach to study the contact mechanisms in the patellofemoral joint of normal versus patellofemoral pain syndrome subjects. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2015 , 18, 391-400	2.1	9
40	Comparison of Cobb angles measured manually, calculated from 3-D spinal reconstruction, and estimated from torso asymmetry. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2002 , 5, 277-81	2.1	9
39	Experimental evaluation of theoretical contact forces in the cat patellofemoral joint. <i>Journal of Biomechanics</i> , 1996 , 29, 1201-5	2.9	8
38	Gait Adaptations in Youth With Juvenile Idiopathic Arthritis. <i>Arthritis Care and Research</i> , 2020 , 72, 917-924	7	8

37	Validating Dual Fluoroscopy System Capabilities for Determining In-Vivo Knee Joint Soft Tissue Deformation: A Strategy for Registration Error Management. <i>Journal of Biomechanics</i> , 2015 , 48, 2181-5	2.9	7
36	Prediction of scoliosis progression with serial three-dimensional spinal curves and the artificial progression surface technique. <i>Medical and Biological Engineering and Computing</i> , 2010 , 48, 1065-75	3.1	7
35	A novel self-expanding primarily bioabsorbable braided flow-diverting stent for aneurysms: initial safety results. <i>Journal of NeuroInterventional Surgery</i> , 2020 , 12, 700-705	7.8	7
34	Cross-Modality Validation of Acetabular Surface Models Using 3-D Ultrasound Versus Magnetic Resonance Imaging in Normal and Dysplastic Infant Hips. <i>Ultrasound in Medicine and Biology</i> , 2016 , 42, 2308-14	3.5	7
33	Ankle kinematics and muscle activity in functional ankle instability. <i>Clinical Journal of Sport Medicine</i> , 2014 , 24, 62-8	3.2	6
32	Accuracy and reliability of MRI vs. laboratory measurements in an ex vivo porcine model of arthritic cartilage loss. <i>Journal of Magnetic Resonance Imaging</i> , 2007 , 26, 992-1000	5.6	6
31	Automatic Surface Matching for the Registration of LIDAR Data and MR Imagery. <i>ETRI Journal</i> , 2006 , 28, 162-174	1.4	6
30	Prediction of scoliosis progression in time series using a hybrid learning technique. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2005 , 2005, 6452-5		6
29	Computer-aided optimal design of custom scoliosis braces considering clinical and patient evaluations. <i>Computer Methods and Programs in Biomedicine</i> , 2012 , 107, 478-89	6.9	5
28	The Knee Loading Apparatus: Axial, Anterior, and Compressive Loading With Magnetic Resonance Imaging. <i>Journal of Mechanical Design, Transactions of the ASME</i> , 2013 , 135,	3	5
27	Vertical Drop Jump Performance in Youth With Juvenile Idiopathic Arthritis. <i>Arthritis Care and Research</i> , 2021 , 73, 955-963	4.7	5
26	Advancing quantitative techniques to improve understanding of the skeletal structure-function relationship. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2018 , 15, 25	5.3	4
25	Effects of Leaflet Design on Transvalvular Gradients of Bioprosthetic Heart Valves. <i>Cardiovascular Engineering and Technology</i> , 2016 , 7, 363-373	2.2	4
24	Lateral hop movement assesses ankle dynamics and muscle activity. <i>Journal of Applied Biomechanics</i> , 2012 , 28, 215-21	1.2	4
23	A potential animal model for creating a controlled and reversible anterior cruciate ligament insufficiency. <i>Knee</i> , 2002 , 9, 209-14	2.6	4
22	EEG differentiates left and right imagined Lower Limb movement. <i>Gait and Posture</i> , 2021 , 84, 148-154	2.6	4
21	Bracing of pectus carinatum: A quantitative analysis. <i>Journal of Pediatric Surgery</i> , 2018 , 53, 1014-1019	2.6	3
20	Error reduction in the finite helical axis for knee kinematics. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2018 , 21, 186-193	2.1	3

19	Normal and ACL-Deficient in Situ Measurement of Patellofemoral Joint Contact. <i>Journal of Applied Biomechanics</i> , 2000 , 16, 111-123	1.2	3
18	Biomechanics of volunteers subject to loading by a motorized shoulder belt tensioner. <i>Spine</i> , 2008 , 33, E225-35	3.3	2
17	Associations of hamstring and triceps surae muscle spasticity and stance phase gait kinematics in children with spastic diplegic cerebral palsy. <i>Journal of Biomechanics</i> , 2021 , 117, 110218	2.9	2
16	Volumetric quantitative measurement of hip effusions by manual versus automated artificial intelligence techniques: An OMERACT preliminary validation study. <i>Seminars in Arthritis and Rheumatism</i> , 2021 , 51, 623-626	5.3	2
15	Secondary consequences of juvenile idiopathic arthritis in children and adolescents with knee involvement: physical activity, adiposity, fitness, and functional performance. <i>Rheumatology International</i> , 2021 , 1	3.6	2
14	Consequences of Juvenile Idiopathic Arthritis on Single Leg Squat Performance in Youth. <i>Arthritis Care and Research</i> , 2021 , 73, 1187-1193	4.7	1
13	Registration of knee joint surfaces for the in-vivo study of joint injuries based on magnetic resonance imaging 2006 , 6144, 935		1
12	Characterizing healthy knee symmetry using the finite helical axis and muscle power during open and closed chain tasks. <i>Journal of Biomechanics</i> , 2020 , 99, 109580	2.9	1
11	Differentiating the Brain's involvement in Executed and Imagined Stepping using fMRI. <i>Behavioural Brain Research</i> , 2020 , 394, 112829	3.4	1
10	Biomechanical Analysis of a Dynamic Stability Test System to Evoke Sway and Step Recovery. <i>Journal of Biomechanical Engineering</i> , 2015 , 137, 104501	2.1	0
9	fMRI-Informed EEG for brain mapping of imagined lower limb movement: Feasibility of a brain computer interface. <i>Journal of Neuroscience Methods</i> , 2021 , 363, 109339	3	0
8	Improved-Mask R-CNN: Towards an accurate generic MSK MRI instance segmentation platform (data from the Osteoarthritis Initiative).. <i>Computerized Medical Imaging and Graphics</i> , 2022 , 97, 102056	7.6	0
7	The Hybrid III Dummy Family Subject to Loading by a Motorized Shoulder Belt Tensioner. <i>SAE International Journal of Passenger Cars - Mechanical Systems</i> , 2008 , 1, 383-395	0.3	
6	Assessment of a Novel Technique for In-Vivo Investigation of Joint Cartilage Deformation Characteristics 2007 , 581		
5	Robust prediction of three-dimensional spinal curve from back surface for non-invasive follow-up of scoliosis 2005 , 5744, 772		
4	Validation of a magnetic resonance imaging based method to study passive knee laxity: An in-situ study.. <i>Medical Engineering and Physics</i> , 2022 , 99, 103733	2.4	
3	Fluoroscopy Validation of Noninvasive 3D Bone-Pose Tracking via External Pressure-Foils. <i>Springer Proceedings in Advanced Robotics</i> , 2019 , 465-473	0.6	
2	Vertical Drop Jump Biomechanics of Patients With a 3- to 10-Year History of Youth Sport-Related Anterior Cruciate Ligament Reconstruction.. <i>Orthopaedic Journal of Sports Medicine</i> , 2021 , 9, 23259671211058105	3.5	

- 1 Concurrent validity and reliability of a semi-automated approach to measuring the magnetic resonance imaging morphology of the knee joint in active youth.. *Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine*, **2022**, 9544119221095337 1.7