

Jessica E Goetz

List of Publications by Year in descending order

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Version: 2024-02-01

66
papers

1,217
citations

430874

18
h-index

414414

32
g-index

68
all docs

68
docs citations

68
times ranked

1376
citing authors

#	ARTICLE	IF	CITATIONS
1	Forceps Reduction of the Syndesmosis in Rotational Ankle Fractures. <i>Journal of Bone and Joint Surgery - Series A</i> , 2012, 94, 2256-2261.	3.0	136
2	The Effect of Suture-Button Fixation on Simulated Syndesmotic Malreduction: A Cadaveric Study. <i>Journal of Bone and Joint Surgery - Series A</i> , 2014, 96, 1732-1738.	3.0	80
3	Targeting mitochondrial responses to intra-articular fracture to prevent posttraumatic osteoarthritis. <i>Science Translational Medicine</i> , 2018, 10, .	12.4	69
4	Tripod Index. <i>Foot and Ankle International</i> , 2013, 34, 1411-1420.	2.3	66
5	Risks to the Blood Supply of the Talus with Four Methods of Total Ankle Arthroplasty. <i>Journal of Bone and Joint Surgery - Series A</i> , 2014, 96, 395-402.	3.0	65
6	Mechanical tradeoffs associated with glenosphere lateralization in reverse shoulder arthroplasty. <i>Journal of Shoulder and Elbow Surgery</i> , 2015, 24, 1774-1781.	2.6	59
7	Effect of Posterior Malleolus Fracture on Syndesmotic Reduction. <i>Journal of Bone and Joint Surgery - Series A</i> , 2018, 100, 243-248.	3.0	41
8	Hip joint contact force in the emu (<i>Dromaius novaehollandiae</i>) during normal level walking. <i>Journal of Biomechanics</i> , 2008, 41, 770-778.	2.1	36
9	Apparent transverse compressive material properties of the digital flexor tendons and the median nerve in the carpal tunnel. <i>Journal of Biomechanics</i> , 2011, 44, 863-868.	2.1	36
10	A clinically realistic large animal model of intra-articular fracture that progresses to post-traumatic osteoarthritis. <i>Osteoarthritis and Cartilage</i> , 2015, 23, 1797-1805.	1.3	35
11	Replication of chronic abnormal cartilage loading by medial meniscus destabilization for modeling osteoarthritis in the rabbit knee in vivo. <i>Journal of Orthopaedic Research</i> , 2013, 31, 1555-1560.	2.3	32
12	Comparative digital cartilage histology for human and common osteoarthritis models. <i>Orthopedic Research and Reviews</i> , 2013, 2013, 13.	1.1	31
13	Time-dependent loss of mitochondrial function precedes progressive histologic cartilage degeneration in a rabbit meniscal destabilization model. <i>Journal of Orthopaedic Research</i> , 2017, 35, 590-599.	2.3	30
14	Delayed administration of recombinant human parathyroid hormone improves early biomechanical strength in a rat rotator cuff repair model. <i>Journal of Shoulder and Elbow Surgery</i> , 2016, 25, 1280-1287.	2.6	29
15	Injury Risk to Extraosseous Knee Vasculature During Osteotomies: A Cadaveric Study With CT and Dissection Analysis. <i>Clinical Orthopaedics and Related Research</i> , 2015, 473, 1030-1039.	1.5	26
16	The effect of glenoid component version and humeral polyethylene liner rotation on subluxation and impingement in reverse shoulder arthroplasty. <i>Journal of Shoulder and Elbow Surgery</i> , 2017, 26, 1718-1725.	2.6	24
17	Maximizing Safety in Screw Placement for Posterior Facet Fixation in Calcaneus Fractures. <i>Foot and Ankle International</i> , 2013, 34, 1279-1285.	2.3	23
18	Validation and Reproducibility of a Biplanar Imaging System Versus Conventional Radiography of Foot and Ankle Radiographic Parameters. <i>Foot and Ankle International</i> , 2014, 35, 1166-1175.	2.3	21

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19	Discrete element analysis is a valid method for computing joint contact stress in the hip before and after acetabular fracture. <i>Journal of Biomechanics</i> , 2018, 67, 9-17.	2.1	20
20	Joint contact stresses calculated for acetabular dysplasia patients using discrete element analysis are significantly influenced by the applied gait pattern. <i>Journal of Biomechanics</i> , 2018, 79, 45-53.	2.1	18
21	Biomechanical Comparison of Syndesmotic Repair Techniques During External Rotation Stress. <i>Foot and Ankle International</i> , 2018, 39, 1345-1354.	2.3	18
22	Day-to-day variability of median nerve location within the carpal tunnel. <i>Clinical Biomechanics</i> , 2010, 25, 660-665.	1.2	17
23	Organ-level histological and biomechanical responses from localized osteoarticular injury in the rabbit knee. <i>Journal of Orthopaedic Research</i> , 2011, 29, 340-346.	2.3	17
24	The apparent critical isotherm for cryoinsult-induced osteonecrotic lesions in emu femoral heads. <i>Journal of Biomechanics</i> , 2008, 41, 2197-2205.	2.1	16
25	Cryoinsult parameter effects on the histologically apparent volume of experimentally induced osteonecrotic lesions. <i>Journal of Orthopaedic Research</i> , 2011, 29, 931-937.	2.3	16
26	Complementary models reveal cellular responses to contact stresses that contribute to post-traumatic osteoarthritis. <i>Journal of Orthopaedic Research</i> , 2017, 35, 515-523.	2.3	15
27	Unaddressed Cam Deformity Is Associated with Elevated Joint Contact Stress After Periacetabular Osteotomy. <i>Journal of Bone and Joint Surgery - Series A</i> , 2018, 100, e131.	3.0	15
28	Deep Learning for Chondrocyte Identification in Automated Histological Analysis of Articular Cartilage. <i>Iowa orthopaedic journal, The</i> , 2019, 39, 1-8.	0.5	15
29	Volar/dorsal compressive mechanical behavior of the transverse carpal ligament. <i>Journal of Biomechanics</i> , 2012, 45, 1180-1185.	2.1	13
30	3D Talar Kinematics During External Rotation Stress Testing in Hindfoot Varus and Valgus Using a Model of Syndesmotic and Deep Deltoid Instability. <i>Foot and Ankle International</i> , 2019, 40, 826-835.	2.3	13
31	Patient Age and Hip Morphology Alter Joint Mechanics in Computational Models of Patients With Hip Dysplasia. <i>Clinical Orthopaedics and Related Research</i> , 2019, 477, 1235-1245.	1.5	13
32	Cartilage-on-cartilage versus metal-on-cartilage impact characteristics and responses. <i>Journal of Orthopaedic Research</i> , 2013, 31, 887-893.	2.3	12
33	Variable Volumes of Resected Bone Resulting From Different Total Ankle Arthroplasty Systems. <i>Foot and Ankle International</i> , 2016, 37, 898-904.	2.3	12
34	Frequency Content of Cartilage Impact Force Signal Reflects Acute Histologic Structural Damage. <i>Cartilage</i> , 2012, 3, 314-322.	2.7	11
35	Neoadjuvant Radiotherapy-Related Wound Morbidity in Soft Tissue Sarcoma: Perspectives for Radioprotective Agents. <i>Cancers</i> , 2020, 12, 2258.	3.7	10
36	Chronically elevated contact stress exposure correlates with intra-articular cartilage degeneration in patients with concurrent acetabular dysplasia and femoroacetabular impingement. <i>Journal of Orthopaedic Research</i> , 2022, 40, 2632-2645.	2.3	10

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37	Cadaveric validation of a finite element modeling approach for studying scapular notching in reverse shoulder arthroplasty. <i>Journal of Biomechanics</i> , 2016, 49, 3069-3073.	2.1	9
38	Cadaveric Evaluation of Dorsal Intermetatarsal Approach for Plantar Plate and Lateral Collateral Ligament Repair of the Lesser Metatarsophalangeal Joints. <i>Foot and Ankle International</i> , 2017, 38, 791-796.	2.3	9
39	Individual flexor tendon identification within the carpal tunnel: A semi-automated analysis method for serial cross-section magnetic resonance images. <i>Orthopedic Research and Reviews</i> , 2009, Volume 1, 31-42.	1.1	8
40	Joint contact stress improves in dysplastic hips after periacetabular osteotomy but remains higher than in normal hips. <i>HIP International</i> , 2023, 33, 298-305.	1.7	8
41	Do Relaxin Levels Impact Hip Injury Incidence in Women? A Scoping Review. <i>Frontiers in Endocrinology</i> , 2022, 13, 827512.	3.5	8
42	Isolated changes in femoral version do not alter intra-articular contact mechanics in cadaveric hips. <i>Journal of Biomechanics</i> , 2020, 109, 109891.	2.1	7
43	MRI-Apparent Localized Deformation of the Median Nerve Within the Carpal Tunnel During Functional Hand Loading. <i>Annals of Biomedical Engineering</i> , 2013, 41, 2099-2108.	2.5	6
44	Effects of knockout of the receptor for advanced glycation end products on bone mineral density and synovitis in mice with intra-articular fractures. <i>Journal of Orthopaedic Research</i> , 2018, 36, 2439-2449.	2.3	6
45	Achilles Tension Mitigates Fibular Malalignment Measured in Cadaveric Studies of Syndesmotom Clamping. <i>Foot and Ankle International</i> , 2019, 40, 465-474.	2.3	6
46	Anatomic Syndesmotom and Deltoid Ligament Reconstruction with Flexible Implants: A Technique Description. <i>Iowa orthopaedic journal, The</i> , 2019, 39, 21-27.	0.5	6
47	STEROID-INDUCED VERSUS CRYOINSULT-INDUCED FEMORAL HEAD OSTEONECROSIS: STATISTICAL MEASUREMENT OF HISTOLOGIC ABNORMALITY FOCALIZATION. <i>Journal of Musculoskeletal Research</i> , 2005, 09, 161-172.	0.2	5
48	Changes in Joint Contact Mechanics in a Large Quadrupedal Animal Model After Partial Meniscectomy and a Focal Cartilage Injury. <i>Journal of Biomechanical Engineering</i> , 2017, 139, .	1.3	5
49	Risk Factors for Composite Failure of Hip Dysplasia Treated With Periacetabular Osteotomy: A Minimum 10-Year Follow-up. <i>Journal of the American Academy of Orthopaedic Surgeons, The</i> , 2022, 30, e690-e702.	2.5	5
50	Imaging biopsy composition at ACL reconstruction. <i>Orthopedic Research and Reviews</i> , 2013, 5, 35.	1.1	4
51	Simulated lesions representative of metastatic disease predict proximal femur failure strength more accurately than idealized lesions. <i>Journal of Biomechanics</i> , 2020, 106, 109825.	2.1	4
52	The Effect of Progressive Lateral Column Lengthening in a Novel Stage II-B Flatfoot Cadaveric Model Evaluated Using Software-Guided Radiographic Measurements of Foot Alignment. <i>Foot and Ankle International</i> , 2022, 43, 1099-1109.	2.3	4
53	Screw fixation of the syndesmosis alters joint contact characteristics in an axially loaded cadaveric model. <i>Foot and Ankle Surgery</i> , 2019, 25, 594-600.	1.7	3
54	Mechanical behavior of carpal tunnel subsynovial connective tissue under compression. <i>Iowa orthopaedic journal, The</i> , 2011, 31, 127-32.	0.5	3

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55	Objective evaluation of chondrocyte density & cloning after joint injury using convolutional neural networks. Journal of Orthopaedic Research, 2022, , .	2.3	3
56	Biomechanical guidance can improve accuracy of reduction for intra-articular tibia plafond fractures and reduce joint contact stress. Journal of Orthopaedic Research, 2023, 41, 546-554.	2.3	3
57	The Influence of Different Rotator Cuff Deficiencies on Shoulder Stability Following Reverse Shoulder Arthroplasty. Iowa orthopaedic journal, The, 2019, 39, 63-68.	0.5	2
58	Effect of modeling femoral version and head-neck offset correction on computed contact mechanics in dysplastic hips treated with periacetabular osteotomy. Journal of Biomechanics, 2022, 141, 111207.	2.1	2
59	Extracellular biomolecular free radical formation during injury. Free Radical Biology and Medicine, 2022, 188, 175-184.	2.9	1
60	Development of a Simplified Ankle Distractor. , 2017, 2017, .		0
61	Response to "Letter Regarding: Achilles Tension Mitigates Fibular Malalignment Measured in Cadaveric Studies of Syndesmotic Clamping" Foot and Ankle International, 2019, 40, 1459-1460.	2.3	0
62	Automated quantification of live articular chondrocyte fluorescent staining using a custom image analysis framework. Journal of Orthopaedic Research, 2021, , .	2.3	0
63	Early OA Following Synovial Joint Fracture. , 2022, , 103-119.		0
64	Changes in Muscle Volume and Composition After Treatment of Hip Dysplasia with Periacetabular Osteotomy.. Iowa orthopaedic journal, The, 2021, 41, 34-39.	0.5	0
65	Paraffin Fixed Human Trabecular Bone Specimens for Study of Osteoporosis. FASEB Journal, 2022, 36, .	0.5	0
66	Finite element analysis potentially identifies nonessential prophylactic stabilization in femurs with metastatic disease. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 0, , 095441192211097.	1.8	0