

# Jessica E Goetz

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5840171/publications.pdf>

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	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
2	Biomechanical guidance can improve accuracy of reduction for intra-articular tibia plafond fractures and reduce joint contact stress. <i>Journal of Orthopaedic Research</i> , 2023, 41, 546-554.	2.3	3
3	Early OA Following Synovial Joint Fracture. , 2022, , 103-119.		0
4	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
5	Do Relaxin Levels Impact Hip Injury Incidence in Women? A Scoping Review. <i>Frontiers in Endocrinology</i> , 2022, 13, 827512.	3.5	8
6	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</i> , The, 2022, 30, e690-e702.	2.5	5
7	Objective evaluation of chondrocyte density & cloning after joint injury using convolutional neural networks. <i>Journal of Orthopaedic Research</i> , 2022, , .	2.3	3
8	Paraffin Fixed Human Trabecular Bone Specimens for Study of Osteoporosis. <i>FASEB Journal</i> , 2022, 36, .	0.5	0
9	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
10	Effect of modeling femoral version and head-neck offset correction on computed contact mechanics in dysplastic hips treated with periacetabular osteotomy. <i>Journal of Biomechanics</i> , 2022, 141, 111207.	2.1	2
11	Extracellular biomolecular free radical formation during injury. <i>Free Radical Biology and Medicine</i> , 2022, 188, 175-184.	2.9	1
12	Automated quantification of live articular chondrocyte fluorescent staining using a custom image analysis framework. <i>Journal of Orthopaedic Research</i> , 2021, , .	2.3	0
13	Changes in Muscle Volume and Composition After Treatment of Hip Dysplasia with Periacetabular Osteotomy.. <i>Iowa orthopaedic journal</i> , The, 2021, 41, 34-39.	0.5	0
14	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
15	Neoadjuvant Radiotherapy-Related Wound Morbidity in Soft Tissue Sarcoma: Perspectives for Radioprotective Agents. <i>Cancers</i> , 2020, 12, 2258.	3.7	10
16	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
17	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
18	Achilles Tension Mitigates Fibular Malalignment Measured in Cadaveric Studies of Syndesmotic Clamping. <i>Foot and Ankle International</i> , 2019, 40, 465-474.	2.3	6

#	ARTICLE	IF	CITATIONS
19	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
20	Response to "Letter Regarding: Achilles Tension Mitigates Fibular Malalignment Measured in Cadaveric Studies of Syndesmotic Clamping". <i>Foot and Ankle International</i> , 2019, 40, 1459-1460.	2.3	0
21	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
22	The Influence of Different Rotator Cuff Deficiencies on Shoulder Stability Following Reverse Shoulder Arthroplasty. <i>Iowa orthopaedic journal, The</i> , 2019, 39, 63-68.	0.5	2
23	Anatomic Syndesmotic and Deltoid Ligament Reconstruction with Flexible Implants: A Technique Description. <i>Iowa orthopaedic journal, The</i> , 2019, 39, 21-27.	0.5	6
24	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
25	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
26	Targeting mitochondrial responses to intra-articular fracture to prevent posttraumatic osteoarthritis. <i>Science Translational Medicine</i> , 2018, 10, .	12.4	69
27	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
28	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
29	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
30	Biomechanical Comparison of Syndesmotic Repair Techniques During External Rotation Stress. <i>Foot and Ankle International</i> , 2018, 39, 1345-1354.	2.3	18
31	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
32	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
33	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
34	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
35	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
36	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

#	ARTICLE	IF	CITATIONS
37	Development of a Simplified Ankle Distractor. , 2017, 2017, .		0
38	Variable Volumes of Resected Bone Resulting From Different Total Ankle Arthroplasty Systems. Foot and Ankle International, 2016, 37, 898-904.	2.3	12
39	Cadaveric validation of a finite element modeling approach for studying scapular notching in reverse shoulder arthroplasty. Journal of Biomechanics, 2016, 49, 3069-3073.	2.1	9
40	Delayed administration of recombinant human parathyroid hormone improves early biomechanical strength in a rat rotator cuff repair model. Journal of Shoulder and Elbow Surgery, 2016, 25, 1280-1287.	2.6	29
41	Injury Risk to Extraosseous Knee Vasculature During Osteotomies: A Cadaveric Study With CT and Dissection Analysis. Clinical Orthopaedics and Related Research, 2015, 473, 1030-1039.	1.5	26
42	A clinically realistic large animal model of intra-articular fracture that progresses to post-traumatic osteoarthritis. Osteoarthritis and Cartilage, 2015, 23, 1797-1805.	1.3	35
43	Mechanical tradeoffs associated with glenosphere lateralization in reverse shoulder arthroplasty. Journal of Shoulder and Elbow Surgery, 2015, 24, 1774-1781.	2.6	59
44	Risks to the Blood Supply of the Talus with Four Methods of Total Ankle Arthroplasty. Journal of Bone and Joint Surgery - Series A, 2014, 96, 395-402.	3.0	65
45	Validation and Reproducibility of a Biplanar Imaging System Versus Conventional Radiography of Foot and Ankle Radiographic Parameters. Foot and Ankle International, 2014, 35, 1166-1175.	2.3	21
46	The Effect of Suture-Button Fixation on Simulated Syndesmotic Malreduction: A Cadaveric Study. Journal of Bone and Joint Surgery - Series A, 2014, 96, 1732-1738.	3.0	80
47	MRI-Apparent Localized Deformation of the Median Nerve Within the Carpal Tunnel During Functional Hand Loading. Annals of Biomedical Engineering, 2013, 41, 2099-2108.	2.5	6
48	Tripod Index. Foot and Ankle International, 2013, 34, 1411-1420.	2.3	66
49	Cartilage versus metal cartilage impact characteristics and responses. Journal of Orthopaedic Research, 2013, 31, 887-893.	2.3	12
50	Replication of chronic abnormal cartilage loading by medial meniscus destabilization for modeling osteoarthritis in the rabbit knee in vivo. Journal of Orthopaedic Research, 2013, 31, 1555-1560.	2.3	32
51	Maximizing Safety in Screw Placement for Posterior Facet Fixation in Calcaneus Fractures. Foot and Ankle International, 2013, 34, 1279-1285.	2.3	23
52	Comparative digital cartilage histology for human and common osteoarthritis models. Orthopedic Research and Reviews, 2013, 2013, 13.	1.1	31
53	Imaging biopsy composition at ACL reconstruction. Orthopedic Research and Reviews, 2013, 5, 35.	1.1	4
54	Forceps Reduction of the Syndesmosis in Rotational Ankle Fractures. Journal of Bone and Joint Surgery - Series A, 2012, 94, 2256-2261.	3.0	136

#	ARTICLE	IF	CITATIONS
55	Frequency Content of Cartilage Impact Force Signal Reflects Acute Histologic Structural Damage. <i>Cartilage</i> , 2012, 3, 314-322.	2.7	11
56	Volar/dorsal compressive mechanical behavior of the transverse carpal ligament. <i>Journal of Biomechanics</i> , 2012, 45, 1180-1185.	2.1	13
57	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
58	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
59	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
60	Mechanical behavior of carpal tunnel subsynovial connective tissue under compression. <i>Iowa orthopaedic journal, The</i> , 2011, 31, 127-32.	0.5	3
61	Day-to-day variability of median nerve location within the carpal tunnel. <i>Clinical Biomechanics</i> , 2010, 25, 660-665.	1.2	17
62	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
63	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
64	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
65	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
66	Finite element analysis potentially identifies nonessential prophylactic stabilization in femurs with metastatic disease. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 0, , 095441192211097.	1.8	0