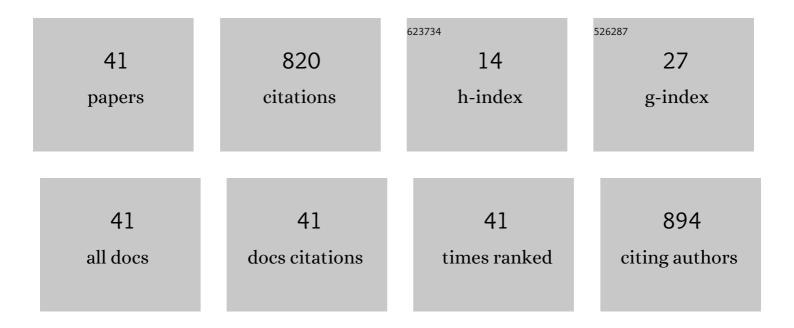
Jonathan R T Jeffers

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	A low friction, biphasic and boundary lubricating hydrogel for cartilage replacement. Acta Biomaterialia, 2018, 65, 102-111.	8.3	92
2	The design and in vivo testing of a locally stiffness-matched porous scaffold. Applied Materials Today, 2019, 15, 377-388.	4.3	84
3	Hip Joint Capsular Anatomy, Mechanics, and Surgical Management. Journal of Bone and Joint Surgery - Series A, 2019, 101, 2141-2151.	3.0	70
4	Does Capsular Laxity Lead to Microinstability of the Native Hip?. American Journal of Sports Medicine, 2018, 46, 1315-1323.	4.2	63
5	Individual response variations in scaffold-guided bone regeneration are determined by independent strain- and injury-induced mechanisms. Biomaterials, 2019, 194, 183-194.	11.4	63
6	Total ankle replacement design and positioning affect implant-bone micromotion and bone strains. Medical Engineering and Physics, 2017, 42, 80-90.	1.7	58
7	The envelope of passive motion allowed by the capsular ligaments of the hip. Journal of Biomechanics, 2015, 48, 3803-3809.	2.1	42
8	Anatomic Predictors of Sagittal Hip and Pelvic Motions in Patients With a Cam Deformity. American Journal of Sports Medicine, 2018, 46, 1331-1342.	4.2	41
9	Design and clinical application of injectable hydrogels for musculoskeletal therapy. Bioengineering and Translational Medicine, 2022, 7, .	7.1	29
10	Additive manufactured pushâ€fit implant fixation with screwâ€strength pull out. Journal of Orthopaedic Research, 2018, 36, 1508-1518.	2.3	27
11	Capsular Ligament Function After Total Hip Arthroplasty. Journal of Bone and Joint Surgery - Series A, 2018, 100, e94.	3.0	23
12	Spatial mapping of humeral head bone density. Journal of Shoulder and Elbow Surgery, 2017, 26, 1653-1661.	2.6	22
13	Hip Joint Torsional Loading Before and After Cam Femoroacetabular Impingement Surgery. American Journal of Sports Medicine, 2019, 47, 420-430.	4.2	20
14	Cam Osteochondroplasty for Femoroacetabular Impingement Increases Microinstability in Deep Flexion: A Cadaveric Study. Arthroscopy - Journal of Arthroscopic and Related Surgery, 2021, 37, 159-170.	2.7	17
15	In vitro hip testing in the International Society of Biomechanics coordinate system. Journal of Biomechanics, 2016, 49, 4154-4158.	2.1	13
16	Robotic hip joint testing: Development and experimental protocols. Medical Engineering and Physics, 2019, 63, 57-62.	1.7	13
17	Tribological evaluation of a novel hybrid for repair of articular cartilage defects. Materials Science and Engineering C, 2021, 119, 111495.	7.3	13
18	Zirconia phase transformation in retrieved, wear simulated, and artificially aged ceramic femoral heads. Journal of Orthopaedic Research, 2017, 35, 2781-2789.	2.3	12

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#	Article	IF	CITATIONS
19	Effect of impaction energy on dynamic bone strains, fixation strength, and seating of cementless acetabular cups. Journal of Orthopaedic Research, 2019, 37, 2367-2375.	2.3	11
20	Stability of small pegs for cementless implant fixation. Journal of Orthopaedic Research, 2017, 35, 2765-2772.	2.3	9
21	An in vitro model of impaction during hip arthroplasty. Journal of Biomechanics, 2019, 82, 220-227.	2.1	9
22	Mapping the Multiâ€Directional Mechanical Properties of Bone in the Proximal Tibia. Advanced Functional Materials, 2020, 30, 2004323.	14.9	9
23	Mechanical and morphological properties of additively manufactured SS316L and Ti6Al4V micro-struts as a function of build angle. Additive Manufacturing, 2021, 46, 102050.	3.0	9
24	High resolution three-dimensional strain measurements in human articular cartilage. Journal of the Mechanical Behavior of Biomedical Materials, 2021, 124, 104806.	3.1	9
25	Impaction technique influences implant stability in low-density bone model. Bone and Joint Research, 2020, 9, 386-393.	3.6	8
26	Capsular ligaments provide a passive stabilizing force to protect the hip against edge loading. Bone and Joint Research, 2021, 10, 594-601.	3.6	7
27	Quantifying 3D Strain in Scaffold Implants for Regenerative Medicine. Materials, 2020, 13, 3890.	2.9	6
28	Development of an Automated Mass-Customization Pipeline for Knee Replacement Surgery Using Biplanar X-Rays. Journal of Mechanical Design, Transactions of the ASME, 2022, 144, .	2.9	6
29	Laser powder bed fusion of porous graded structures: A comparison between computational and experimental analysis. Journal of the Mechanical Behavior of Biomedical Materials, 2021, 123, 104784.	3.1	6
30	Micromotion and Pushâ€Out Evaluation of an Additive Manufactured Implant for Aboveâ€ŧheâ€Knee Amputees. Journal of Orthopaedic Research, 2019, 37, 2104-2111.	2.3	5
31	Exploratory Full-Field Mechanical Analysis across the Osteochondral Tissue—Biomaterial Interface in an Ovine Model. Materials, 2020, 13, 3911.	2.9	5
32	Total and partial knee arthroplasty implants that maintain native load transfer in the tibia. Bone and Joint Research, 2022, 11, 91-101.	3.6	5
33	Lattice implants that generate homeostatic and remodeling strains in bone. Journal of Orthopaedic Research, 2022, 40, 871-877.	2.3	3
34	Power-Tool Use in Orthopaedic Surgery. JBJS Open Access, 2021, 6, .	1.5	3
35	Performance and Sensitivity Analysis of an Automated X-Ray Based Total Knee Replacement Mass-Customization Pipeline. Journal of Medical Devices, Transactions of the ASME, 2022, 16, .	0.7	3
36	The role of biomechanics and engineering in total hip replacement. Why surgeons need technical help. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2012, 226, 947-954.	1.8	2

#	Article	IF	CITATIONS
37	A computational design of experiments based method for evaluation of off-the-shelf total knee replacement implants. Computer Methods in Biomechanics and Biomedical Engineering, 2022, , 1-10.	1.6	2
38	Validity of repeated-measures analyses of in vitro arthroplasty kinematics and kinetics. Journal of Biomechanics, 2021, 129, 110669.	2.1	1
39	Anatomical Mapping: Mapping the Multiâ€Directional Mechanical Properties of Bone in the Proximal Tibia (Adv. Funct. Mater. 46/2020). Advanced Functional Materials, 2020, 30, 2070301.	14.9	Ο
40	Biomechanics of the Native Hip from Normal to Instability. , 2020, , 55-70.		0
41	Capsular Mechanics After Periacetabular Osteotomy for Hip Dysplasia. Journal of Bone and Joint Surgery - Series A, 2022, Publish Ahead of Print, .	3.0	0