

Hannah Jean Lundberg

List of Publications by Year in descending order

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43
papers

673
citations

623699

14
h-index

580810

25
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44
all docs

44
docs citations

44
times ranked

571
citing authors

#	ARTICLE	IF	CITATIONS
1	Cartilage Thickness in Cadaveric Ankles: Measurement with Double-Contrast Multi-Phase Detector Row CT Arthrography versus MR Imaging. <i>Radiology</i> , 2004, 233, 768-773.	7.3	99
2	Mechanical, chemical and biological damage modes within head-neck tapers of CoCrMo and Ti6Al4V contemporary hip replacements. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2018, 106, 1672-1685.	3.4	68
3	Does Surface Topography Play a Role in Taper Damage in Head-neck Modular Junctions?. <i>Clinical Orthopaedics and Related Research</i> , 2016, 474, 2232-2242.	1.5	49
4	What Factors Drive Taper Corrosion?. <i>Journal of Arthroplasty</i> , 2018, 33, 2707-2711.	3.1	49
5	Direct comparison of measured and calculated total knee replacement force envelopes during walking in the presence of normal and abnormal gait patterns. <i>Journal of Biomechanics</i> , 2012, 45, 990-996.	2.1	36
6	Tribocorrosion and oral and maxillofacial surgical devices. <i>British Journal of Oral and Maxillofacial Surgery</i> , 2014, 52, 396-400.	0.8	34
7	Intelligence-Based Spine Care Model: A New Era of Research and Clinical Decision-Making. <i>Global Spine Journal</i> , 2021, 11, 135-145.	2.3	24
8	A parametric approach to numerical modeling of TKR contact forces. <i>Journal of Biomechanics</i> , 2009, 42, 541-545.	2.1	22
9	Contact conditions for total hip head-neck modular taper junctions with microgrooved stem tapers. <i>Journal of Biomechanics</i> , 2020, 103, 109689.	2.1	20
10	Effects of episodic subluxation events on third body ingress and embedment in the THA bearing surface. <i>Journal of Biomechanics</i> , 2008, 41, 2090-2096.	2.1	19
11	Fine Tuning Total Knee Replacement Contact Force Prediction Algorithms Using Blinded Model Validation. <i>Journal of Biomechanical Engineering</i> , 2013, 135, 021015.	1.3	19
12	Effects of implant design parameters on fluid convection, potentiating third-body debris ingress into the bearing surface during THA impingement/subluxation. <i>Journal of Biomechanics</i> , 2007, 40, 1676-1685.	2.1	18
13	A reduction in the knee adduction moment with medial thrust gait is associated with a medial shift in center of plantar pressure. <i>Medical Engineering and Physics</i> , 2016, 38, 615-621.	1.7	17
14	Finite element evaluation of the newest ISO testing standard for polyethylene total knee replacement liners. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2018, 232, 545-552.	1.8	17
15	Comparison of Antagonist Muscle Activity During Walking Between Total Knee Replacement and Control Subjects Using Unnormalized Electromyography. <i>Journal of Arthroplasty</i> , 2016, 31, 1331-1339.	3.1	15
16	Problematic sites of third body embedment in polyethylene for total hip wear acceleration. <i>Journal of Biomechanics</i> , 2006, 39, 1208-1216.	2.1	14
17	The choice of the femoral center of rotation affects material loss in total knee replacement wear testing – A parametric finite element study of ISO 14243-3. <i>Journal of Biomechanics</i> , 2019, 88, 104-112.	2.1	13
18	Are Damage Modes Related to Microstructure and Material Loss in Severely Damaged CoCrMo Femoral Heads?. <i>Clinical Orthopaedics and Related Research</i> , 2021, 479, 2083-2096.	1.5	13

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19	Fretting-corrosion in hip taper modular junctions: The influence of topography and pH levels – An in-vitro study. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2021, 118, 104443.	3.1	13
20	Comparison of ISO Standard and TKR patient axial force profiles during the stance phase of gait. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2012, 226, 227-234.	1.8	12
21	Hamstring Activity in the Anterior Cruciate Ligament Injured Patient: Injury Implications and Comparison With Quadriceps Activity. <i>Arthroscopy - Journal of Arthroscopic and Related Surgery</i> , 2016, 32, 1651-1659.	2.7	12
22	Modelling changes in modular taper micromechanics due to surgeon assembly technique in total hip arthroplasty. <i>Bone and Joint Journal</i> , 2020, 102-B, 33-40.	4.4	12
23	Contact Mechanics and Plastic Deformation at the Local Surface Topography Level After Assembly of Modular Head-Neck Junctions in Modern Total Hip Replacement Devices. , 2015, , 59-82.		11
24	Nonidentical and outlier duty cycles as factors accelerating UHMWPE wear in THA: A finite element exploration. <i>Journal of Orthopaedic Research</i> , 2007, 25, 30-43.	2.3	9
25	Habitual hip joint activity level of the penned EMU (<i>Dromaius novaehollandie</i>). <i>Iowa orthopaedic journal, The</i> , 2007, 27, 17-23.	0.5	9
26	Are Instrumented Knee Forces Representative of a Larger Population of Cruciate-Retaining Total Knee Arthroplasties?. <i>Journal of Arthroplasty</i> , 2017, 32, 2268-2273.	3.1	6
27	Interaction of surface topography and taper mismatch on head-stem modular junction contact mechanics during assembly in modern total hip replacement. <i>Journal of Orthopaedic Research</i> , 2023, 41, 418-425.	2.3	6
28	Grand Challenge Competition: A Parametric Numerical Model to Predict In Vivo Medial and Lateral Knee Forces in Walking Gaits. , 2012, , .		5
29	Sensitivity of total knee replacement wear to variability in motion and load input: A parametric finite element analysis study. <i>Journal of Orthopaedic Research</i> , 2020, 38, 1538-1549.	2.3	5
30	Imprinting and Column Damage on CoCrMo Head Taper Surfaces in Total Hip Replacements. , 2018, , 131-155.		5
31	Methods for locating the tibio-femoral contact pathway in total knee replacements using marker-based gait analysis and standard radiography. <i>Iowa orthopaedic journal, The</i> , 2014, 34, 94-101.	0.5	5
32	Model validation for estimating taper microgroove deformation during total hip arthroplasty head-neck assembly. <i>Journal of Biomechanics</i> , 2022, 140, 111172.	2.1	5
33	Can a gait-dependent model predict wear on retrieved total knee arthroplasty components?. <i>Bone and Joint Journal</i> , 2020, 102-B, 129-137.	4.4	3
34	Computational Parametric Studies for Preclinical Evaluation of Total Knee Replacements. <i>Lecture Notes in Computational Vision and Biomechanics</i> , 2020, , 60-85.	0.5	3
35	Optimal surgical component alignment minimizes TKR wear – An in silico study with nine alignment parameters. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2022, 125, 104939.	3.1	2
36	Comparison of Numerically Modeled Knee Joint Contact Forces to Instrumented Total Knee Prosthesis Forces. , 2009, , .		1

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37	The Effect of the Tibiofemoral Contact Path Centroid Location on TKR Contact Forces. , 2010, , .		1
38	Linear Penetration as a Surrogate Measure for Volumetric Wear in TKR Tibial Inserts. , 2018, , 75-92.		1
39	Calculated Axial Forces at the Knee in Total Knee Replacement Patients During Chair and Stair Activities. , 2012, , .		0
40	Computational Framework for Determining Patient-Specific Total Knee Arthroplasty Loading. Journal of Medical Devices, Transactions of the ASME, 2013, 7, 0409041-409041.	0.7	0
41	Computational Framework for Determining Patient-Specific Total Knee Arthroplasty Loading. , 2013, , .		0
42	Biomechanical Effect of Macroscopic Degeneration in a Lumbar Intervertebral Disc. , 2008, , .		0
43	A Novel Multilayered Annular Model to Predict Delamination in a Lumbar Intervertebral Disc. , 2009, , .		0