Hannah Jean Lundberg

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/5737120/publications.pdf

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43 papers

673 citations

623734 14 h-index 25 g-index

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–Detector Row CT Arthrography versus MR Imaging. Radiology, 2004, 233, 768-773. | 7.3 | 99 |
| 2 | Mechanical, chemical and biological damage modes within headâ€neck tapers of CoCrMo and Ti6Al4V contemporary hip replacements. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2018, 106, 1672-1685. | 3.4 | 68 |
| 3 | Does Surface Topography Play a Role in Taper Damage in Head-neck Modular Junctions?. Clinical Orthopaedics and Related Research, 2016, 474, 2232-2242. | 1.5 | 49 |
| 4 | What Factors Drive Taper Corrosion?. Journal of Arthroplasty, 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. Journal of Biomechanics, 2012, 45, 990-996. | 2.1 | 36 |
| 6 | Tribocorrosion and oral and maxillofacial surgical devices. British Journal of Oral and Maxillofacial Surgery, 2014, 52, 396-400. | 0.8 | 34 |
| 7 | Intelligence-Based Spine Care Model: A New Era of Research and Clinical Decision-Making. Global Spine Journal, 2021, 11, 135-145. | 2.3 | 24 |
| 8 | A parametric approach to numerical modeling of TKR contact forces. Journal of Biomechanics, 2009, 42, 541-545. | 2.1 | 22 |
| 9 | Contact conditions for total hip head-neck modular taper junctions with microgrooved stem tapers. Journal of Biomechanics, 2020, 103, 109689. | 2.1 | 20 |
| 10 | Effects of episodic subluxation events on third body ingress and embedment in the THA bearing surface. Journal of Biomechanics, 2008, 41, 2090-2096. | 2.1 | 19 |
| 11 | Fine Tuning Total Knee Replacement Contact Force Prediction Algorithms Using Blinded Model Validation. Journal of Biomechanical Engineering, 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. Journal of Biomechanics, 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. Medical Engineering and Physics, 2016, 38, 615-621. | 1.7 | 17 |
| 14 | Finite element evaluation of the newest ISO testing standard for polyethylene total knee replacement liners. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 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. Journal of Arthroplasty, 2016, 31, 1331-1339. | 3.1 | 15 |
| 16 | Problematic sites of third body embedment in polyethylene for total hip wear acceleration. Journal of Biomechanics, 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 $\hat{a} \in A$ parametric finite element study of ISO 14243-3. Journal of Biomechanics, 2019, 88, 104-112. | 2.1 | 13 |
| 18 | Are Damage Modes Related to Microstructure and Material Loss in Severely Damaged CoCrMo Femoral Heads?. Clinical Orthopaedics and Related Research, 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. Journal of the Mechanical Behavior of Biomedical Materials, 2021, 118, 104443. | 3.1 | 13 |
| 20 | Comparison of ISO Standard and TKR patient axial force profiles during the stance phase of gait. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2012, 226, 227-234. | 1.8 | 12 |
| 21 | Hamstring Activity in the Anterior Cruciate Ligament Injured Patient: Injury Implications and Comparison With Quadriceps Activity. Arthroscopy - Journal of Arthroscopic and Related Surgery, 2016, 32, 1651-1659. | 2.7 | 12 |
| 22 | Modelling changes in modular taper micromechanics due to surgeon assembly technique in total hip arthroplasty. Bone and Joint Journal, 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. Journal of Orthopaedic Research, 2007, 25, 30-43. | 2.3 | 9 |
| 25 | Habitual hip joint activity level of the penned EMU (Dromaius novaehollandie). Iowa orthopaedic journal, The, 2007, 27, 17-23. | 0.5 | 9 |
| 26 | Are Instrumented Knee Forces Representative of a Larger Population of Cruciate-Retaining Total Knee Arthroplasties?. Journal of Arthroplasty, 2017, 32, 2268-2273. | 3.1 | 6 |
| 27 | Interaction of surface topography and taper mismatch on headâ€stem modular junction contact mechanics during assembly in modern total hip replacement. Journal of Orthopaedic Research, 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. Journal of Orthopaedic Research, 2020, 38, 1538-1549. | 2.3 | 5 |
| 30 | Imprinting and Column Damage on CoCrMo Head Taper Surfaces in Total Hip Replacements. , 2018 , , $131\text{-}155$. | | 5 |
| 31 | Methods for locating the tibio-femoral contact pathway in total knee replacements using marker-based gait analysis and standard radiography. lowa orthopaedic journal, The, 2014, 34, 94-101. | 0.5 | 5 |
| 32 | Model validation for estimating taper microgroove deformation during total hip arthroplasty head-neck assembly. Journal of Biomechanics, 2022, 140, 111172. | 2.1 | 5 |
| 33 | Can a gait-dependent model predict wear on retrieved total knee arthroplasty components?. Bone and Joint Journal, 2020, 102-B, 129-137. | 4.4 | 3 |
| 34 | Computational Parametric Studies for Preclinical Evaluation of Total Knee Replacements. Lecture Notes in Computational Vision and Biomechanics, 2020, , 60-85. | 0.5 | 3 |
| 35 | Optimal surgical component alignment minimizes TKR wear – An in silico study with nine alignment parameters. Journal of the Mechanical Behavior of Biomedical Materials, 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, , . | | O |
| 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 |