

Todd D Stewart

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/5683078/todd-d-stewart-publications-by-year.pdf>

Version: 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

46
papers

913
citations

16
h-index

29
g-index

47
ext. papers

1,006
ext. citations

2.7
avg, IF

3.74
L-index

#	Paper	IF	Citations
46	Measurement of Wire Deflection on Loading may Indicate Union in Ilizarov Constructs: A Pilot Study.. <i>Strategies in Trauma and Limb Reconstruction</i> , 2021 , 16, 132-137	0.6	
45	Comparison of Mechanical Performance between Circular Frames and Biplanar Distraction Devices for Knee Joint Distraction. <i>Strategies in Trauma and Limb Reconstruction</i> , 2021 , 16, 71-77	0.6	0
44	Analysis of hip joint cross-shear under variable activities using a novel virtual joint model within Visual3D. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2021 , 235, 1197-1204	1.7	0
43	Calcar-collar contact during simulated periprosthetic femoral fractures increases resistance to fracture and depends on the initial separation on implantation: A composite femur in vitro study. <i>Clinical Biomechanics</i> , 2021 , 87, 105411	2.2	1
42	Foot trajectories and loading rates in a transfemoral amputee for six different commercial prosthetic knees: An indication of adaptability. <i>Medical Engineering and Physics</i> , 2019 , 68, 46-56	2.4	5
41	Hip surgeons and leg length inequality after primary hip replacement. <i>HIP International</i> , 2019 , 29, 102-108	1.7	7
40	Can the radiopaque marker in surgical swabs scratch orthopaedic implant surfaces?. <i>European Journal of Orthopaedic Surgery and Traumatology</i> , 2019 , 29, 383-388	2.2	
39	Measurement of wire deflection on loading may indicate union in Ilizarov constructs, an in vitro model. <i>Strategies in Trauma and Limb Reconstruction</i> , 2018 , 13, 75-80	0.6	2
38	Hip stem fatigue: : The implications of increasing patient mass. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2018 , 232, 520-530	1.7	4
37	Biomechanical analysis of walking gait when simulating the use of an Ilizarov external fixator. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2018 , 232, 628-636	1.7	2
36	What Are the Biomechanical Properties of the Taylor Spatial Frame? <i>Clinical Orthopaedics and Related Research</i> , 2017 , 475, 1472-1482	2.2	18
35	Mechanics of musculoskeletal repair devices. <i>Orthopaedics and Trauma</i> , 2016 , 30, 192-200	0.5	2
34	Basic biomechanics of the hip. <i>Orthopaedics and Trauma</i> , 2016 , 30, 239-246	0.5	11
33	What Are the Biomechanical Effects of Half-pin and Fine-wire Configurations on Fracture Site Movement in Circular Frames?. <i>Clinical Orthopaedics and Related Research</i> , 2016 , 474, 1041-9	2.2	15
32	The effect of application time of two types of bone cement on the cement-bone interface strength. <i>European Journal of Orthopaedic Surgery and Traumatology</i> , 2015 , 25, 775-81	2.2	2
31	Unilateral total hip replacement patients with symptomatic leg length inequality have abnormal hip biomechanics during walking. <i>Clinical Biomechanics</i> , 2015 , 30, 513-9	2.2	39
30	Hip contact forces in asymptomatic total hip replacement patients differ from normal healthy individuals: Implications for preclinical testing. <i>Clinical Biomechanics</i> , 2014 , 29, 747-51	2.2	20

29	Wear and degradation on retrieved zirconia femoral heads. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2014 , 31, 145-51	4.1	8
28	Long-term results of a total knee prosthesis utilising an all polyethylene tibial component. <i>Archives of Orthopaedic and Trauma Surgery</i> , 2013 , 133, 1143-8	3.6	5
27	The influence of size, clearance, cartilage properties, thickness and hemiarthroplasty on the contact mechanics of the hip joint with biphasic layers. <i>Journal of Biomechanics</i> , 2013 , 46, 1641-7	2.9	29
26	A review of symptomatic leg length inequality following total hip arthroplasty. <i>HIP International</i> , 2013 , 23, 6-14	1.7	25
25	Spectral analysis of the sound produced during femoral broaching and implant insertion in uncemented total hip arthroplasty. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2013 , 227, 175-80	1.7	14
24	Characterization of worn alumina hip replacement prostheses. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2012 , 100, 121-32	3.5	6
23	Spectral characterization of squeaking in ceramic-on-ceramic total hip arthroplasty: comparison of in vitro and in vivo values. <i>Journal of Orthopaedic Research</i> , 2012 , 30, 185-9	3.8	14
22	Dynamic surface microstructural changes during tribological contact that determine the wear behaviour of hip prostheses: metals and ceramics. <i>Faraday Discussions</i> , 2012 , 156, 41-57; discussion 87-103	3.6	14
21	Effect of cup abduction angle and head lateral microseparation on contact stresses in ceramic-on-ceramic total hip arthroplasty. <i>Journal of Biomechanics</i> , 2012 , 45, 390-3	2.9	22
20	Transmission electron microscopy analysis of worn alumina hip replacement prostheses. <i>Acta Materialia</i> , 2012 , 60, 2061-2072	8.4	12
19	Assessing reproducibility for radiographic measurement of leg length inequality after total hip replacement. <i>HIP International</i> , 2012 , 22, 539-44	1.7	14
18	Contact surface motion paths associated with leg length inequality following unilateral total hip replacement. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2012 , 226, 968-74	1.7	6
17	Leg length inequality following total hip replacement. <i>Orthopaedics and Trauma</i> , 2011 , 25, 37-42	0.5	5
16	Influence of acetabular cup rim design on the contact stress during edge loading in ceramic-on-ceramic hip prostheses. <i>Journal of Arthroplasty</i> , 2011 , 26, 131-6	4.4	28
15	Undetected fracture of an alumina ceramic on ceramic hip prosthesis. <i>Journal of Arthroplasty</i> , 2010 , 25, 658.e1-5	4.4	15
14	In vitro investigation of friction under edge-loading conditions for ceramic-on-ceramic total hip prosthesis. <i>Journal of Orthopaedic Research</i> , 2010 , 28, 979-85	3.8	44
13	Three-dimensional modeling of in vitro hip kinematics under micro-separation regime for ceramic on ceramic total hip prosthesis: an analysis of vibration and noise. <i>Journal of Biomechanics</i> , 2010 , 43, 326-33	2.9	32
12	Strong and light plaster casts?. <i>Injury</i> , 2009 , 40, 890-3	2.5	7

11	Cement mantle stress under retroversion torque at heel-strike. <i>Medical Engineering and Physics</i> , 2009 , 31, 1323-30	2.4	5
10	Long-term clinical, radiological and histopathological follow-up of a well-fixed Mckee-Farrar metal-on-metal total hip arthroplasty. <i>Journal of Arthroplasty</i> , 2005 , 20, 542-6	4.4	16
9	Bone anchors or interference screws? A biomechanical evaluation for autograft ankle stabilization. <i>American Journal of Sports Medicine</i> , 2004 , 32, 1651-9	6.8	39
8	Carbon-carbon composite bearing materials in hip arthroplasty: analysis of wear and biological response to wear debris. <i>Journal of Materials Science: Materials in Medicine</i> , 2004 , 15, 91-8	4.5	27
7	Wear of surface engineered metal-on-metal hip prostheses. <i>Journal of Materials Science: Materials in Medicine</i> , 2004 , 15, 225-35	4.5	100
6	The wear and fracture behaviour of ultra high molecular weight polyethylene subjected to gamma-irradiation in an atmosphere of acetylene. <i>Journal of Materials Science: Materials in Medicine</i> , 2004 , 15, 1339-47	4.5	4
5	Long-term wear of ceramic matrix composite materials for hip prostheses under severe swing phase microseparation. <i>Journal of Biomedical Materials Research Part B</i> , 2003 , 66, 567-73		104
4	Severe wear and fracture of zirconia heads against alumina inserts in hip simulator studies with microseparation. <i>Journal of Arthroplasty</i> , 2003 , 18, 726-34	4.4	64
3	Long-term wear of HIPed alumina on alumina bearings for THR under microseparation conditions. <i>Journal of Materials Science: Materials in Medicine</i> , 2001 , 12, 1053-6	4.5	97
2	Production tooling for polymer moulding using the RapidSteel process. <i>Rapid Prototyping Journal</i> , 2001 , 7, 173-179	3.8	29
1	Comparison of axial-rotational postoperative periprosthetic fracture of the femur in composite osteoporotic femur versus human cadaveric specimens: A validation study. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 095441192210928	1.7	0