

Todd D Stewart

List of Publications by Citations

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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	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
45	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
44	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
43	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
42	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
41	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
40	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
39	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
38	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
37	Production tooling for polymer moulding using the RapidSteel process. <i>Rapid Prototyping Journal</i> , 2001 , 7, 173-179	3.8	29
36	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
35	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
34	A review of symptomatic leg length inequality following total hip arthroplasty. <i>HIP International</i> , 2013 , 23, 6-14	1.7	25
33	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
32	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
31	What Are the Biomechanical Properties of the Taylor Spatial Frame? <i>Clinical Orthopaedics and Related Research</i> , 2017 , 475, 1472-1482	2.2	18
30	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

29	Undetected fracture of an alumina ceramic on ceramic hip prosthesis. <i>Journal of Arthroplasty</i> , 2010 , 25, 658.e1-5	4.4	15
28	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
27	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
26	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
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	Assessing reproducibility for radiographic measurement of leg length inequality after total hip replacement. <i>HIP International</i> , 2012 , 22, 539-44	1.7	14
23	Transmission electron microscopy analysis of worn alumina hip replacement prostheses. <i>Acta Materialia</i> , 2012 , 60, 2061-2072	8.4	12
22	Basic biomechanics of the hip. <i>Orthopaedics and Trauma</i> , 2016 , 30, 239-246	0.5	11
21	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
20	Hip surgeons and leg length inequality after primary hip replacement. <i>HIP International</i> , 2019 , 29, 102-108	0.7	7
19	Strong and light plaster casts?. <i>Injury</i> , 2009 , 40, 890-3	2.5	7
18	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
17	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
16	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
15	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
14	Leg length inequality following total hip replacement. <i>Orthopaedics and Trauma</i> , 2011 , 25, 37-42	0.5	5
13	Cement mantle stress under retroversion torque at heel-strike. <i>Medical Engineering and Physics</i> , 2009 , 31, 1323-30	2.4	5
12	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

11	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
10	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
9	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
8	Mechanics of musculoskeletal repair devices. <i>Orthopaedics and Trauma</i> , 2016 , 30, 192-200	0.5	2
7	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
6	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
5	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
4	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
3	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
2	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	
1	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	