

# Kajsa K Duke

## List of Publications by Year in descending order

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Version: 2024-02-01

23  
papers

272  
citations

933447

10  
h-index

940533

16  
g-index

23  
all docs

23  
docs citations

23  
times ranked

292  
citing authors

#	ARTICLE	IF	CITATIONS
1	A novel CACD/CAD/CAE integrated design framework for fiber-reinforced plastic parts. <i>Advances in Engineering Software</i> , 2015, 87, 13-29.	3.8	49
2	Biomechanical simulations of scoliotic spine correction due to prone position and anaesthesia prior to surgical instrumentation. <i>Clinical Biomechanics</i> , 2005, 20, 923-931.	1.2	42
3	Biomechanical evaluation of the Nice knot. <i>International Journal of Shoulder Surgery</i> , 2016, 10, 15.	1.5	24
4	Investigation of pelvic symmetry using CAD software. <i>Medical and Biological Engineering and Computing</i> , 2020, 58, 75-82.	2.8	16
5	Virtual reconstruction of unilateral pelvic fractures by using pelvic symmetry. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2020, 15, 1267-1277.	2.8	15
6	Computer simulation for the optimization of patient positioning in spinal deformity instrumentation surgery. <i>Medical and Biological Engineering and Computing</i> , 2008, 46, 33-41.	2.8	14
7	Computer-aided design“computer-aided engineering associative feature-based heterogeneous object modeling. <i>Advances in Mechanical Engineering</i> , 2015, 7, 168781401561976.	1.6	13
8	A geometric approach to study the contact mechanisms in the patellofemoral joint of normal versus patellofemoral pain syndrome subjects. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2015, 18, 391-400.	1.6	13
9	Biomechanical Analysis of Chlorhexidine Power Irrigation to Disinfect Contaminated Anterior Cruciate Ligament Grafts. <i>American Journal of Sports Medicine</i> , 2011, 39, 1528-1533.	4.2	12
10	Three-dimensional geometric analysis of the talus for designing talar prosthetics. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2014, 228, 371-378.	1.8	12
11	Effects of Recycling on the Mechanical Behavior of Polypropylene at Room Temperature Through Statistical Analysis Method. <i>Polymer Engineering and Science</i> , 2016, 56, 1283-1290.	3.1	10
12	Improving greater trochanteric reattachment with a novel cable plate system. <i>Medical Engineering and Physics</i> , 2013, 35, 383-391.	1.7	9
13	Dynamic Positioning of Scoliotic Patients During Spine Instrumentation Surgery. <i>Journal of Spinal Disorders and Techniques</i> , 2009, 22, 190-196.	1.9	8
14	Development and application of the average pelvic shape in virtual pelvic fracture reconstruction. <i>International Journal of Medical Robotics and Computer Assisted Surgery</i> , 2021, 17, e2199.	2.3	8
15	The effects of femoral neck cut, cable tension, and muscles forces on the greater trochanter fixation. <i>Medical and Biological Engineering and Computing</i> , 2012, 50, 411-417.	2.8	5
16	Multi-material plastic part design via the level set shape and topology optimization method. <i>Engineering Optimization</i> , 2016, 48, 1910-1931.	2.6	5
17	An Equivalent Constitutive Model of Cancellous Bone With Fracture Prediction. <i>Journal of Biomechanical Engineering</i> , 2020, 142, .	1.3	5
18	Effect of force tightening on cable tension and displacement in greater trochanter reattachment. , 2011, 2011, 5749-52.		3

#	ARTICLE	IF	CITATIONS
19	Prediction of fracture initiation and propagation in pelvic bones. Computer Methods in Biomechanics and Biomedical Engineering, 2022, 25, 808-820.	1.6	3
20	Polycarbonate-urethane coating can significantly improve talus implant contact characteristics. Journal of the Mechanical Behavior of Biomedical Materials, 2022, 125, 104936.	3.1	3
21	Quantitative analysis of regional specific pelvic symmetry. Medical and Biological Engineering and Computing, 2021, 59, 369-381.	2.8	2
22	Prediction of failure in cancellous bone using extended finite element method. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2020, 234, 988-999.	1.8	1
23	Influence of Girth Weld Flaw and Pipe Parameters on the Critical Longitudinal Strain of Steel Pipes. , 2012, , .		0