

Matthias Woiczinski

List of Publications by Year in descending order

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567281

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40
times ranked

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citing authors

#	ARTICLE	IF	CITATIONS
1	Biomechanical stability of short versus long proximal femoral nails in osteoporotic subtrochanteric A3 reverse-oblique femoral fractures: a cadaveric study. Archives of Orthopaedic and Trauma Surgery, 2023, 143, 389-397.	2.4	5
2	Impact of femoro-tibial size combinations and TKA design on kinematics. Archives of Orthopaedic and Trauma Surgery, 2022, 142, 1197-1212.	2.4	3
3	Influence of Treadmill Design on Gait: Does Treadmill Size Affect Muscle Activation Amplitude? A Musculoskeletal Calculation With Individualized Input Parameters of Gait Analysis. Frontiers in Neurology, 2022, 13, 830762.	2.4	2
4	Biomechanical stability of sacroiliac screw osteosynthesis with and without cement augmentation. Injury, 2021, 52, 2707-2711.	1.7	23
5	Resomer C212® in vertebroplasty or kyphoplasty: A feasibility study on artificial bones with biomechanical and thermal evaluation. Technology and Health Care, 2021, 29, 343-350.	1.2	1
6	Secondary Patellar Resurfacing in TKA: A Combined Analysis of Registry Data and Biomechanical Testing. Journal of Clinical Medicine, 2021, 10, 1227.	2.4	9
7	Reporting checklist for verification and validation of finite element analysis in orthopedic and trauma biomechanics. Medical Engineering and Physics, 2021, 92, 25-32.	1.7	21
8	How relevant is lumbar bone mineral density for the stability of symphyseal implants? A biomechanical cadaver study. European Journal of Trauma and Emergency Surgery, 2021, , 1.	1.7	2
9	Varus or valgus positioning of the tibial component of a unicompartamental fixed-bearing knee arthroplasty does not increase wear. Knee Surgery, Sports Traumatology, Arthroscopy, 2020, 28, 3016-3021.	4.2	6
10	Biomechanical comparison of minimally invasive treatment options for Type C unstable fractures of the pelvic ring. Orthopaedics and Traumatology: Surgery and Research, 2020, 106, 127-133.	2.0	9
11	Impact of tibial baseplate malposition on kinematics, contact forces and ligament tensions in TKA: A numerical analysis. Journal of the Mechanical Behavior of Biomedical Materials, 2020, 103, 103564.	3.1	10
12	The T-pod is as stable as supraacetabular fixation using 1 or 2 Schanz screws in partially unstable pelvic fractures: a biomechanical study. European Journal of Medical Research, 2020, 25, 26.	2.2	2
13	Étude biomécanique comparative des ostéosyntheses mini invasives pour le traitement des fractures instables de l'anneau pelvien de type Tile C. Revue De Chirurgie Orthopedique Et Traumatologique, 2020, 106, 43-44.	0.0	1
14	Optimisation of the drill-in behaviour of the EcoFit® SC threaded cup. Biomedizinische Technik, 2020, 65, 477-484.	0.8	1
15	Influence of different anteversion alignments of a cementless hip stem on primary stability and strain distribution. Clinical Biomechanics, 2020, 80, 105167.	1.2	1
16	Modified less invasive anterior subcutaneous fixator for unstable Tile-C-pelvic ring fractures: a biomechanical study. BioMedical Engineering OnLine, 2019, 18, 38.	2.7	16
17	Tape suture for stabilization of incomplete posterior pelvic ring fractures—biomechanical analysis of a new minimally invasive treatment for incomplete lateral compression pelvic ring fractures. Journal of Orthopaedic Surgery and Research, 2019, 14, 465.	2.3	8
18	TKA design-integrated trochlea groove rotation reduces patellofemoral pressure. Knee Surgery, Sports Traumatology, Arthroscopy, 2019, 27, 1680-1692.	4.2	11

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19	Interlaboratory comparison of femur surface reconstruction from CT data compared to reference optical 3D scan. <i>BioMedical Engineering OnLine</i> , 2018, 17, 29.	2.7	26
20	A lateral retinacular release during total knee arthroplasty changes femorotibial kinematics: an in vitro study. <i>Archives of Orthopaedic and Trauma Surgery</i> , 2018, 138, 401-407.	2.4	10
21	Medial stabilized and posterior stabilized TKA affect patellofemoral kinematics and retropatellar pressure distribution differently. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2018, 26, 1743-1750.	4.2	10
22	Minimally invasive screw fixation is as stable as anterior plating in acetabular T-Type fractures – A biomechanical study. <i>Orthopaedics and Traumatology: Surgery and Research</i> , 2018, 104, 1055-1061.	2.0	12
23	Varus malalignment of cementless hip stems provides sufficient primary stability but highly increases distal strain distribution. <i>Clinical Biomechanics</i> , 2018, 58, 14-20.	1.2	15
24	Increase in the Tibial Slope in Unicondylar Knee Replacement: Analysis of the Effect on the Kinematics and Ligaments in a Weight-Bearing Finite Element Model. <i>BioMed Research International</i> , 2018, 2018, 1-9.	1.9	21
25	La fixation par vis par voie mini-invasive dans les fractures en T de l'acétabulum est aussi stable que la plaque antérieure : Étude biomécanique. <i>Revue De Chirurgie Orthopedique Et Traumatologique</i> , 2018, 104, 714-715.	0.0	0
26	Influence of mediolateral tibial baseplate position in TKA on knee kinematics and retropatellar pressure. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2017, 25, 2602-2608.	4.2	16
27	Can the metaphyseal anchored Metha short stem safely be revised with a standard CLS stem? A biomechanical analysis. <i>International Orthopaedics</i> , 2017, 41, 2471-2477.	1.9	17
28	Influence of undersized cementless hip stems on primary stability and strain distribution. <i>Archives of Orthopaedic and Trauma Surgery</i> , 2017, 137, 1435-1441.	2.4	28
29	Mediolateral femoral component position in TKA significantly alters patella shift and femoral roll-back. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2017, 25, 3561-3568.	4.2	17
30	Influence of tibial rotation in total knee arthroplasty on knee kinematics and retropatellar pressure: an in vitro study. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2016, 24, 2395-2401.	4.2	48
31	Femorotibial kinematics and load patterns after total knee arthroplasty: An in vitro comparison of posterior-stabilized versus medial-stabilized design. <i>Clinical Biomechanics</i> , 2016, 33, 42-48.	1.2	46
32	Development and validation of a weight-bearing finite element model for total knee replacement. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2016, 19, 1033-1045.	1.6	20
33	Rapid Prototyping for In Vitro Knee Rig Investigations of Prosthetized Knee Biomechanics: Comparison with Cobalt-Chromium Alloy Implant Material. <i>BioMed Research International</i> , 2015, 2015, 1-9.	1.9	10
34	Comparing effects of perfusion and hydrostatic pressure on gene profiles of human chondrocyte. <i>Journal of Biotechnology</i> , 2015, 210, 59-65.	3.8	16
35	The effect of trochlea tilting on patellofemoral contact patterns after total knee arthroplasty: an in vitro study. <i>Archives of Orthopaedic and Trauma Surgery</i> , 2014, 134, 867-872.	2.4	24
36	Posterior cruciate ligament balancing in total knee arthroplasty: a numerical study with a dynamic force controlled knee model. <i>BioMedical Engineering OnLine</i> , 2014, 13, 91.	2.7	18

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37	Patellofemoral contact patterns before and after total knee arthroplasty: an in vitro measurement. BioMedical Engineering OnLine, 2013, 12, 58.	2.7	43
38	Calculation of the elastic properties of prosthetic knee components with an iterative finite element-based modal analysis: quantitative comparison of different measuring techniques. Biomedizinische Technik, 2013, 58, 369-76.	0.8	4