

Christian Klemt

List of Publications by Year in descending order

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Version: 2024-02-01

64
papers

1,043
citations

471371

17
h-index

526166

27
g-index

64
all docs

64
docs citations

64
times ranked

713
citing authors

#	ARTICLE	IF	CITATIONS
1	Helical sub-structures in energy-storing tendons provide a possible mechanism for efficient energy storage and return. <i>Acta Biomaterialia</i> , 2013, 9, 7948-7956.	4.1	138
2	Diagnostic Utility of Platelet Count/Lymphocyte Count Ratio and Platelet Count/Mean Platelet Volume Ratio in Periprosthetic Joint Infection Following Total Knee Arthroplasty. <i>Journal of Arthroplasty</i> , 2021, 36, 291-297.	1.5	44
3	Single-Stage Revision of the Infected Total Knee Arthroplasty Is Associated With Improved Functional Outcomes: A Propensity Score-Matched Cohort Study. <i>Journal of Arthroplasty</i> , 2021, 36, 298-304.	1.5	43
4	One-stage revision is as effective as two-stage revision for chronic culture-negative periprosthetic joint infection after total hip and knee arthroplasty. <i>Bone and Joint Journal</i> , 2021, 103-B, 515-521.	1.9	43
5	Preoperative Opioid Use Negatively Affects Patient-reported Outcomes After Primary Total Hip Arthroplasty. <i>Journal of the American Academy of Orthopaedic Surgeons</i> , The, 2019, 27, e1016-e1020.	1.1	42
6	Functionally distinct tendon fascicles exhibit different creep and stress relaxation behaviour. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2014, 228, 49-59.	1.0	41
7	Stair Climbing and High Knee Flexion Activities in Bi-Cruciate Retaining Total Knee Arthroplasty: In-Vivo Kinematics and Articular Contact Analysis. <i>Journal of Arthroplasty</i> , 2019, 34, 570-576.	1.5	39
8	Bi-Cruciate Retaining Total Knee Arthroplasty Does Not Restore Native Tibiofemoral Articular Contact Kinematics During Gait. <i>Journal of Orthopaedic Research</i> , 2019, 37, 1929-1937.	1.2	38
9	Minority Race and Ethnicity is Associated With Higher Complication Rates After Revision Surgery for Failed Total Hip and Knee Joint Arthroplasty. <i>Journal of Arthroplasty</i> , 2021, 36, 1393-1400.	1.5	30
10	Development of a Preoperative Risk Calculator for Reinfection Following Revision Surgery for Periprosthetic Joint Infection. <i>Journal of Arthroplasty</i> , 2021, 36, 693-699.	1.5	25
11	Analysis of shoulder compressive and shear forces during functional activities of daily life. <i>Clinical Biomechanics</i> , 2018, 54, 34-41.	0.5	24
12	Outcome of Dual Mobility Constructs for Adverse Local Tissue Reaction Associated Abductor Deficiency in Revision Total Hip Arthroplasty. <i>Journal of Arthroplasty</i> , 2020, 35, 3686-3691.	1.5	24
13	Outcome of Re-Revision Surgery for Adverse Local Tissue Reaction in Metal-on-Polyethylene and Metal-on-Metal Total Hip Arthroplasty. <i>Journal of Arthroplasty</i> , 2020, 35, S284-S288.	1.5	24
14	Machine learning algorithms predict extended postoperative opioid use in primary total knee arthroplasty. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2022, 30, 2573-2581.	2.3	22
15	Artificial intelligence algorithms accurately predict prolonged length of stay following revision total knee arthroplasty. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2022, 30, 2556-2564.	2.3	22
16	Complete blood platelet and lymphocyte ratios increase diagnostic accuracy of periprosthetic joint infection following total hip arthroplasty. <i>Archives of Orthopaedic and Trauma Surgery</i> , 2023, 143, 1441-1449.	1.3	22
17	Machine learning models accurately predict recurrent infection following revision total knee arthroplasty for periprosthetic joint infection. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2022, 30, 2582-2590.	2.3	20
18	Anthropometric Scaling of Anatomical Datasets for Subject-Specific Musculoskeletal Modelling of the Shoulder. <i>Annals of Biomedical Engineering</i> , 2019, 47, 924-936.	1.3	18

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19	In vivo kinematic analysis of patients with robotic-assisted total hip arthroplasty during gait at 1-year follow-up. <i>International Journal of Medical Robotics and Computer Assisted Surgery</i> , 2019, 15, e2021.	1.2	17
20	Outcomes and Risk Factors Associated With 2-Stage Reimplantation Requiring an Interim Spacer Exchange for Periprosthetic Joint Infection. <i>Journal of Arthroplasty</i> , 2021, 36, 1094-1100.	1.5	17
21	Elevated ESR/CRP Ratio Is Associated With Reinfection After Debridement, Antibiotics, and Implant Retention in Chronic Periprosthetic Joint Infections. <i>Journal of Arthroplasty</i> , 2020, 35, 3254-3260.	1.5	16
22	The contribution of the glenoid labrum to glenohumeral stability under physiological joint loading using finite element analysis. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2017, 20, 1613-1622.	0.9	15
23	Effect of postural changes on in vivo pelvic tilt and functional component anteversion in total hip arthroplasty patients with lumbar disc degenerations. <i>Bone and Joint Journal</i> , 2020, 102-B, 1505-1510.	1.9	15
24	Outcomes and Risk Factors Associated With Failures of Debridement, Antibiotics, and Implant Retention in Patients With Acute Hematogenous Periprosthetic Joint Infection. <i>Journal of the American Academy of Orthopaedic Surgeons</i> , The, 2021, 29, 1024-1030.	1.1	15
25	In Vivo analysis of spinopelvic kinematics and peak head-hip contact in total hip arthroplasty patients with lumbar degenerative disc disease. <i>Journal of Orthopaedic Research</i> , 2019, 37, 674-680.	1.2	13
26	Does Component Alignment Affect Patient Reported Outcomes following Bicruciate Retaining Total Knee Arthroplasty? An In Vivo Three-Dimensional Analysis. <i>Journal of Knee Surgery</i> , 2020, 33, 798-803.	0.9	13
27	Periprosthetic joint infection is the main reason for failure in patients following periprosthetic fracture treated with revision arthroplasty. <i>Archives of Orthopaedic and Trauma Surgery</i> , 2022, 142, 3565-3574.	1.3	13
28	Response to Letter to the Editor on "Diagnostic Utility of Platelet Count/Lymphocyte Count Ratio and Platelet Count/Mean Platelet Volume Ratio in Periprosthetic Joint Infection After Total Knee Arthroplasty". <i>Journal of Arthroplasty</i> , 2020, 35, 3782-3783.	1.5	12
29	Comparison of patient reported outcome measures after single versus two-stage revision for chronic infection of total hip arthroplasty: a retrospective propensity score matched cohort study. <i>Archives of Orthopaedic and Trauma Surgery</i> , 2021, 141, 1789-1796.	1.3	12
30	Neural network models accurately predict discharge disposition after revision total knee arthroplasty?. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2022, 30, 2591-2599.	2.3	12
31	Artificial neural networks for the prediction of transfusion rates in primary total hip arthroplasty. <i>Archives of Orthopaedic and Trauma Surgery</i> , 2023, 143, 1643-1650.	1.3	12
32	Outcome of Debridement, Antibiotics, and Implant Retention With Modular Component Exchange in Acute Culture-Negative Periprosthetic Joint Infections. <i>Journal of Arthroplasty</i> , 2021, 36, 1087-1093.	1.5	11
33	Concomitant Hip and Knee Periprosthetic Joint Infection in Periprosthetic Fracture: Diagnostic Utility of Serum and Synovial Fluid Markers. <i>Journal of Arthroplasty</i> , 2021, 36, 722-727.	1.5	11
34	Lumbar Spine Fusion Before Revision Total Hip Arthroplasty Is Associated With Increased Dislocation Rates. <i>Journal of the American Academy of Orthopaedic Surgeons</i> , The, 2021, 29, e860-e868.	1.1	11
35	The Utility of Machine Learning Algorithms for the Prediction of Early Revision Surgery After Primary Total Hip Arthroplasty. <i>Journal of the American Academy of Orthopaedic Surgeons</i> , The, 2022, 30, 513-522.	1.1	11
36	The Use of Artificial Neural Networks for the Prediction of Surgical Site Infection Following TKA. <i>Journal of Knee Surgery</i> , 2023, 36, 637-643.	0.9	10

#	ARTICLE	IF	CITATIONS
37	The utility of machine learning algorithms for the prediction of patient-reported outcome measures following primary hip and knee total joint arthroplasty. Archives of Orthopaedic and Trauma Surgery, 2023, 143, 2235-2245.	1.3	10
38	Gender Influences Gait Asymmetry following Bicruciate-Retaining Total Knee Arthroplasty. Journal of Knee Surgery, 2020, 33, 582-588.	0.9	9
39	Sensitivity and Specificity of Serum and Synovial Fluid Markers in Diagnosis of Infection in Head-Neck Taper Corrosion of Metal-On-Polyethylene Total Hip Arthroplasty. Journal of Arthroplasty, 2020, 35, 3737-3742.	1.5	9
40	Can machine learning models predict failure of revision total hip arthroplasty?. Archives of Orthopaedic and Trauma Surgery, 2023, 143, 2805-2812.	1.3	9
41	MARS MRI Characteristics of Adverse Local Tissue Reactions in Taper Corrosion of Metal-On-Polyethylene THA Differ From Metal-On-Metal THA. Journal of Arthroplasty, 2020, 35, 3338-3342.	1.5	8
42	MARS MRI assessment of fatty degeneration of the gluteal muscles in patients with THA: reliability and accuracy of commonly used classification systems. Skeletal Radiology, 2021, 50, 665-672.	1.2	8
43	An anatomical atlas-based scaling study for quantifying muscle and hip joint contact forces in above and through-knee amputees using validated musculoskeletal modelling. IEEE Transactions on Biomedical Engineering, 2021, 68, 1-1.	2.5	8
44	Patient-reported Outcomes Associated With Preoperative Opioid Use in Revision Total Hip Arthroplasty: A Propensity Score-Matched Cohort Study. Journal of the American Academy of Orthopaedic Surgeons, The, 2021, 29, e330-e336.	1.1	8
45	Outcome of Spinal Versus General Anesthesia in Revision Total Hip Arthroplasty: A Propensity Score-Matched Cohort Analysis. Journal of the American Academy of Orthopaedic Surgeons, The, 2021, 29, e656-e666.	1.1	7
46	In vivo kinematics of deep lunges and sit-to-stand activities in patients with bicruciate-retaining total knee arthroplasty. Bone and Joint Journal, 2020, 102-B, 59-65.	1.9	6
47	Outcome and Risk Factors Associated with Failures of Isolated Bearing Exchange for Osteolysis in Well-Fixed Cementless Total Hip Arthroplasty. Journal of Arthroplasty, 2021, 36, 255-260.	1.5	6
48	Impact of Preoperative Opioid Use on Patient-Reported Outcomes after Revision Total Knee Arthroplasty: A Propensity Matched Analysis. Journal of Knee Surgery, 2023, 36, 115-120.	0.9	6
49	Preoperative Serum C-Reactive Protein/Albumin Ratio Is a Predictor of Complications After Single-stage Revision for the Treatment of Periprosthetic Joint Infection. Journal of the American Academy of Orthopaedic Surgeons, The, 2021, 29, e1013-e1024.	1.1	6
50	Three-dimensional kinematic analysis of dislocation mechanism in dual mobility total hip arthroplasty constructs. Journal of Orthopaedic Research, 2021, 39, 1423-1432.	1.2	5
51	Asymmetrical tibial polyethylene geometry-cruciate retaining total knee arthroplasty does not fully restore in-vivo articular contact kinematics during strenuous activities. Knee Surgery, Sports Traumatology, Arthroscopy, 2022, 30, 652-660.	2.3	5
52	Outcome and risk factors of failures associated with revision total hip arthroplasty for recurrent dislocation. Archives of Orthopaedic and Trauma Surgery, 2022, 142, 1801-1807.	1.3	5
53	In Vitro Kinematic Analysis of Single Axis Radius Posterior-Substituting Total Knee Arthroplasty. Journal of Knee Surgery, 2021, 34, 1253-1259.	0.9	4
54	Outcome of Revision Surgery for the Idiopathic Stiff Total Knee Arthroplasty. Journal of Arthroplasty, 2021, 36, 1067-1073.	1.5	4

#	ARTICLE	IF	CITATIONS
55	Outcomes of Tourniquet-Less Revision Total Knee Arthroplasty: A Matched Cohort Analysis. Journal of the American Academy of Orthopaedic Surgeons, The, 2021, 29, e1343-e1352.	1.1	4
56	Knee Arthroscopy Prior to Revision TKA Is Associated with Increased Re-Revision for Stiffness. Journal of Knee Surgery, 2022, 35, 1223-1228.	0.9	4
57	The Effect of Joint Line Elevation on In Vivo Knee Kinematics in Bicruciate Retaining Total Knee Arthroplasty. Journal of Knee Surgery, 2022, 35, 1445-1452.	0.9	3
58	Elevated ESR and CRP Prior to Second-Stage Reimplantation Knee Revision Surgery for Periprosthetic Joint Infection Are Associated with Increased Reinfection Rates. Journal of Knee Surgery, 2023, 36, 354-361.	0.9	3
59	Posterior Tibial Slope Increases Anterior Cruciate Ligament Stress in Bi-Cruciate Retaining Total Knee Arthroplasty: In Vivo Kinematic Analysis. Journal of Knee Surgery, 2020, , .	0.9	3
60	Effect of postural changes on in vivo pelvic tilt and functional component anteversion in total hip arthroplasty patients with lumbar disc degenerations. Bone and Joint Journal, 2020, , 1-7.	1.9	2
61	Outcome of revision surgery for adverse local tissue reactions in patients with recalled total hip arthroplasty. Archives of Orthopaedic and Trauma Surgery, 2022, 142, 2577-2583.	1.3	2
62	Gait and Knee Flexion In Vivo Kinematics of Asymmetric Tibial Polyethylene Geometry Cruciate Retaining Total Knee Arthroplasty. Journal of Knee Surgery, 2022, 35, 828-837.	0.9	2
63	Impact of Smoking and Drinking on Complications After Revision Total Joint Arthroplasty: A Matched Cohort Analysis. Journal of the American Academy of Orthopaedic Surgeons, The, 2021, 29, e769-e781.	1.1	2
64	Metal Articulations As A Source of THA Pain. Journal of Arthroplasty, 2022, , .	1.5	0