

Stephen M Howell

List of Publications by Year in descending order

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182
papers

7,763
citations

46918

47
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56606

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187
all docs

187
docs citations

187
times ranked

2723
citing authors

#	ARTICLE	IF	CITATIONS
1	Does A Kinematically Aligned Total Knee Arthroplasty Restore Function Without Failure Regardless of Alignment Category?. <i>Clinical Orthopaedics and Related Research</i> , 2013, 471, 1000-1007.	0.7	358
2	Structural Properties of Six Tibial Fixation Methods for Anterior Cruciate Ligament Soft Tissue Grafts. <i>American Journal of Sports Medicine</i> , 1999, 27, 35-43.	1.9	292
3	Accurate alignment and high function after kinematically aligned TKA performed with generic instruments. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2013, 21, 2271-2280.	2.3	256
4	The Relationship between the Angle of the Tibial Tunnel in the Coronal Plane and Loss of Flexion and Anterior Laxity after Anterior Cruciate Ligament Reconstruction. <i>American Journal of Sports Medicine</i> , 2001, 29, 567-574.	1.9	234
5	How Three Methods for Fixing a Medial Meniscal Autograft Affect Tibial Contact Mechanics. <i>American Journal of Sports Medicine</i> , 1999, 27, 320-328.	1.9	208
6	Do Patient-specific Guides Improve Coronal Alignment in Total Knee Arthroplasty?. <i>Clinical Orthopaedics and Related Research</i> , 2012, 470, 895-902.	0.7	202
7	Principles for placing the tibial tunnel and avoiding roof impingement during reconstruction of a torn anterior cruciate ligament. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 1998, 6, S49-S55.	2.3	198
8	A rationale for predicting anterior cruciate graft impingement by the intercondylar roof. <i>American Journal of Sports Medicine</i> , 1991, 19, 276-282.	1.9	197
9	Results of an Initial Experience with Custom-fit Positioning Total Knee Arthroplasty in a Series of 48 Patients. <i>Orthopedics</i> , 2008, 31, 857-63.	0.5	178
10	Implant Survival and Function Ten Years After Kinematically Aligned Total Knee Arthroplasty. <i>Journal of Arthroplasty</i> , 2018, 33, 3678-3684.	1.5	174
11	EFFECT OF THE ANGLE OF THE FEMORAL AND TIBIAL TUNNELS IN THE CORONAL PLANE AND INCREMENTAL EXCISION OF THE POSTERIOR CRUCIATE LIGAMENT ON TENSION OF AN ANTERIOR CRUCIATE LIGAMENT GRAFT. <i>Journal of Bone and Joint Surgery - Series A</i> , 2003, 85, 1018-1029.	1.4	160
12	Knee Extension and its Relationship to the Slope of the Intercondylar Roof. <i>American Journal of Sports Medicine</i> , 1995, 23, 288-294.	1.9	158
13	Does varus alignment adversely affect implant survival and function six years after kinematically aligned total knee arthroplasty?. <i>International Orthopaedics</i> , 2015, 39, 2117-2124.	0.9	156
14	Serial magnetic resonance imaging of hamstring anterior cruciate ligament autografts during the first year of implantation. <i>American Journal of Sports Medicine</i> , 1991, 19, 42-47.	1.9	152
15	Contributions of Femoral Fixation Methods to the Stiffness of Anterior Cruciate Ligament Replacements at Implantation. <i>Arthroscopy - Journal of Arthroscopic and Related Surgery</i> , 1999, 15, 379-387.	1.3	141
16	Comparison of Viscoelastic, Structural, and Material Properties of Double-Looped Anterior Cruciate Ligament Grafts Made From Bovine Digital Extensor and Human Hamstring Tendons. <i>Journal of Biomechanical Engineering</i> , 2001, 123, 162-169.	0.6	135
17	Native Knee Laxities at 0°, 45°, and 90° of Flexion and Their Relationship to the Goal of the Cap-Balancing Alignment Method of Total Knee Arthroplasty. <i>Journal of Bone and Joint Surgery - Series A</i> , 2015, 97, 1678-1684.	1.4	127
18	Nonanatomic Location of the Posterior Horn of a Medial Meniscal Autograft Implanted in a Cadaveric Knee Adversely Affects the Pressure Distribution on the Tibial Plateau. <i>American Journal of Sports Medicine</i> , 2002, 30, 74-82.	1.9	125

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19	Kinematic alignment is a possible alternative to mechanical alignment in total knee arthroplasty. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2017, 25, 3467-3479.	2.3	124
20	Revascularization of a Human Anterior Cruciate Ligament Graft During the First Two Years of Implantation. <i>American Journal of Sports Medicine</i> , 1995, 23, 42-49.	1.9	123
21	Contact Mechanics of the Medial Tibial Plateau after Implantation of a Medial Meniscal Allograft. <i>American Journal of Sports Medicine</i> , 2000, 28, 370-376.	1.9	113
22	Assessment of the Radii of the Medial and Lateral Femoral Condyles in Varus and Valgus Knees with Osteoarthritis. <i>Journal of Bone and Joint Surgery - Series A</i> , 2010, 92, 98-104.	1.4	111
23	Serial magnetic resonance study assessing the effects of impingement on the MR image of the patellar tendon graft. <i>Arthroscopy - Journal of Arthroscopic and Related Surgery</i> , 1992, 8, 350-358.	1.3	98
24	How Four Weeks of Implantation Affect the Strength and Stiffness of a Tendon Graft in a Bone Tunnel. <i>American Journal of Sports Medicine</i> , 2002, 30, 506-513.	1.9	97
25	Anterior cruciate ligament reconstruction: principles of treatment. <i>EFORT Open Reviews</i> , 2016, 1, 398-408.	1.8	97
26	Femoral bone and cartilage wear is predictable at 0° and 90° in the osteoarthritic knee treated with total knee arthroplasty. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2014, 22, 2975-2981.	2.3	96
27	How Frequently Do Four Methods for Mechanically Aligning a Total Knee Arthroplasty Cause Collateral Ligament Imbalance and Change Alignment from Normal in White Patients?. <i>Journal of Bone and Joint Surgery - Series A</i> , 2014, 96, e101.	1.4	95
28	A biomechanical evaluation of anterior and posterior tibialis tendons as suitable single-loop anterior cruciate ligament grafts. <i>Arthroscopy - Journal of Arthroscopic and Related Surgery</i> , 2002, 18, 589-597.	1.3	93
29	Controversies in Soft-tissue Anterior Cruciate Ligament Reconstruction: Grafts, Bundles, Tunnels, Fixation, and Harvest. <i>Journal of the American Academy of Orthopaedic Surgeons</i> , The, 2008, 16, 376-384.	1.1	80
30	Does Calipered Kinetically Aligned TKA Restore Native Left to Right Symmetry of the Lower Limb and Improve Function?. <i>Journal of Arthroplasty</i> , 2018, 33, 398-406.	1.5	79
31	Use of roentgenography and magnetic resonance imaging to predict meniscal geometry determined with a three-dimensional coordinate digitizing system. <i>Journal of Orthopaedic Research</i> , 2000, 18, 228-237.	1.2	78
32	Are undesirable contact kinematics minimized after kinematically aligned total knee arthroplasty? An intersurgeon analysis of consecutive patients. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2013, 21, 2281-2287.	2.3	78
33	Evaluation of the Single-Incision Arthroscopic Technique for Anterior Cruciate Ligament Replacement. <i>American Journal of Sports Medicine</i> , 1999, 27, 284-293.	1.9	77
34	Arthroscopic Findings Associated with Roof Impingement of an Anterior Cruciate Ligament Graft. <i>American Journal of Sports Medicine</i> , 1995, 23, 616-625.	1.9	73
35	The Effect of Graft Tissue on Anterior Cruciate Ligament Outcomes: A Multicenter, Prospective, Randomized Controlled Trial Comparing Autograft Hamstrings With Fresh-Frozen Anterior Tibialis Allograft. <i>Arthroscopy - Journal of Arthroscopic and Related Surgery</i> , 2012, 28, 1079-1086.	1.3	70
36	What clinical characteristics and radiographic parameters are associated with patellofemoral instability after kinematically aligned total knee arthroplasty?. <i>International Orthopaedics</i> , 2017, 41, 283-291.	0.9	68

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37	Does Malrotation of the Tibial and Femoral Components Compromise Function in Kinematically Aligned Total Knee Arthroplasty?. <i>Orthopedic Clinics of North America</i> , 2016, 47, 41-50.	0.5	67
38	Arthroscopic roofplasty: A method for correcting an extension deficit caused by roof impingement of an anterior cruciate ligament graft. <i>Arthroscopy - Journal of Arthroscopic and Related Surgery</i> , 1992, 8, 375-379.	1.3	65
39	A new technique for transmission of signals from implantable transducers. <i>IEEE Transactions on Biomedical Engineering</i> , 1998, 45, 614-619.	2.5	64
40	Variability of the location of the tibial tubercle affects the rotational alignment of the tibial component in kinematically aligned total knee arthroplasty. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2013, 21, 2288-2295.	2.3	63
41	Anterior tibial translation during a maximum quadriceps contraction: Is it clinically significant?. <i>American Journal of Sports Medicine</i> , 1990, 18, 573-578.	1.9	61
42	In vivo tensile behavior of a four-bundle hamstring graft as a replacement for the anterior cruciate ligament. <i>Journal of Orthopaedic Research</i> , 1997, 15, 539-545.	1.2	61
43	Calipered Kinematically Aligned Total Knee Arthroplasty: An Accurate Technique That Improves Patient Outcomes and Implant Survival. <i>Orthopedics</i> , 2019, 42, 126-135.	0.5	61
44	What mechanisms are associated with tibial component failure after kinematically-aligned total knee arthroplasty?. <i>International Orthopaedics</i> , 2017, 41, 1561-1569.	0.9	60
45	Total knee arthroplasty with patient-specific instruments improves function and restores limb alignment in patients with extra-articular deformity. <i>Knee</i> , 2013, 20, 407-411.	0.8	58
46	The level of compressive load affects conclusions from statistical analyses to determine whether a lateral meniscal autograft restores tibial contact pressure to normal: A study in human cadaveric knees. <i>Journal of Orthopaedic Research</i> , 2003, 21, 459-464.	1.2	56
47	The ACL in the Arthritic Knee: How Often Is It Present and Can Preoperative Tests Predict Its Presence?. <i>Clinical Orthopaedics and Related Research</i> , 2013, 471, 181-188.	0.7	52
48	Longitudinal Shapes of the Tibia and Femur are Unrelated and Variable. <i>Clinical Orthopaedics and Related Research</i> , 2010, 468, 1142-1148.	0.7	48
49	Contact pressure and tension in anterior cruciate ligament grafts subjected to roof impingement during passive extension. <i>Journal of Orthopaedic Research</i> , 1997, 15, 263-268.	1.2	45
50	Timing of neuromuscular activation of the quadriceps and hamstrings prior to landing in high school male athletes, female athletes, and female non-athletes. <i>Journal of Electromyography and Kinesiology</i> , 2008, 18, 591-597.	0.7	45
51	Kinematically aligned total knee arthroplasty limits high tibial forces, differences in tibial forces between compartments, and abnormal tibial contact kinematics during passive flexion. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2018, 26, 1589-1601.	2.3	44
52	Does Kinematic Alignment and Flexion of a Femoral Component Designed for Mechanical Alignment Reduce the Proximal and Lateral Reach of the Trochlea?. <i>Journal of Arthroplasty</i> , 2016, 31, 1808-1813.	1.5	41
53	Kinematic alignment more closely restores the groove location and the sulcus angle of the native trochlea than mechanical alignment: implications for prosthetic design. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2019, 27, 1504-1513.	2.3	41
54	Checkpoints for Judging Tunnel and Anterior Cruciate Ligament Graft Placement. <i>Journal of Knee Surgery</i> , 2009, 22, 161-170.	0.9	40

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55	Roofplasty requirements in vitro for different tibial hole placements in anterior cruciate ligament reconstruction. American Journal of Sports Medicine, 1993, 21, 292-298.	1.9	39
56	Identification of Cross-Sectional Parameters of Lateral Meniscal Allografts That Predict Tibial Contact Pressure in Human Cadaveric Knees. Journal of Biomechanical Engineering, 2002, 124, 481-489.	0.6	38
57	New algorithm for selecting meniscal allografts that best match the size and shape of the damaged meniscus. Journal of Orthopaedic Research, 2006, 24, 1535-1543.	1.2	38
58	Early Tension Loss in an Anterior Cruciate Ligament Graft. Journal of Bone and Joint Surgery - Series A, 2005, 87, 381-390.	1.4	37
59	A method for quantifying the anterior load-displacement behavior of the human knee in both the low and high stiffness regions. Journal of Biomechanics, 2001, 34, 1655-1660.	0.9	36
60	Variability in static alignment and kinematics for kinematically aligned TKA. Knee, 2017, 24, 733-744.	0.8	36
61	Kinematic alignment of current TKA implants does not restore the native trochlear anatomy. Orthopaedics and Traumatology: Surgery and Research, 2018, 104, 983-995.	0.9	36
62	How Frequent Is Rotational Mismatch Within $0^{\circ}\pm 10^{\circ}$ in Kinematically Aligned Total Knee Arthroplasty?. Orthopedics, 2013, 36, e1515-20.	0.5	35
63	Kinematic Alignment in Total Knee Arthroplasty. , 2012, , 1255-1268.		35
64	The Role of the Supraspinatus and Infraspinatus Muscles in Glenohumeral Kinematics of Anterior Shoulder Instability. Clinical Orthopaedics and Related Research, 1991, &NA;, 128-134.	0.7	34
65	Foam-Reinforced Elderly Human Tibia Approximates Young Human Tibia Better than Porcine Tibia. American Journal of Sports Medicine, 2004, 32, 755-764.	1.9	32
66	Is a shortened length of stay and increased rate of discharge to home associated with a low readmission rate and cost-effectiveness after primary total knee arthroplasty?. Arthroplasty Today, 2018, 4, 107-112.	0.8	32
67	Is There a Force Target That Predicts Early Patient-reported Outcomes After Kinematically Aligned TKA?. Clinical Orthopaedics and Related Research, 2019, 477, 1200-1207.	0.7	32
68	Endoscopic fixation of a double-looped semitendinosus and gracilis anterior cruciate ligament graft using bone mulch screw. Operative Techniques in Orthopaedics, 1996, 6, 152-160.	0.2	31
69	Alignment in TKA: what has been clear is not anymore!. Knee Surgery, Sports Traumatology, Arthroscopy, 2019, 27, 2037-2039.	2.3	30
70	Analysis of differences in laxities and neutral positions from native after kinematically aligned TKA using cruciate retaining implants. Journal of Orthopaedic Research, 2019, 37, 358-369.	1.2	30
71	The limits of passive motion are variable between and unrelated within normal tibiofemoral joints. Journal of Orthopaedic Research, 2015, 33, 1594-1602.	1.2	29
72	Three-dimensional analysis of the tibial resection plane relative to the arthritic tibial plateau in total knee arthroplasty. Journal of Experimental Orthopaedics, 2017, 4, 27.	0.8	29

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73	A high-accuracy three-dimensional coordinate digitizing system for reconstructing the geometry of diarthrodial joints. <i>Journal of Biomechanics</i> , 1998, 31, 571-577.	0.9	28
74	Compaction of a Bone Dowel in the Tibial Tunnel Improves the Fixation Stiffness of a Soft Tissue Anterior Cruciate Ligament Graft. <i>American Journal of Sports Medicine</i> , 2005, 33, 719-725.	1.9	28
75	Method for Quantifying Patient Expectations and Early Recovery After Total Knee Arthroplasty. <i>Orthopedics</i> , 2009, 32, 884.	0.5	28
76	Rationale for Strategic Graft Placement in Anterior Cruciate Ligament Reconstruction: I.D.E.A.L. Femoral Tunnel Position. <i>American Journal of Orthopedics</i> , 2015, 44, 253-8.	0.7	28
77	Scientific justification and technique for anterior cruciate ligament reconstruction using autogenous and allogeneic soft-tissue grafts. <i>Orthopedic Clinics of North America</i> , 2003, 34, 19-30.	0.5	27
78	Quadriceps load aggravates and roofplasty mitigates active impingement of anterior cruciate ligament grafts against the intercondylar roof. <i>Journal of Orthopaedic Research</i> , 1998, 16, 611-617.	1.2	26
79	Deviations in femoral joint lines using calipered kinematically aligned TKA from virtually planned joint lines are small and do not affect clinical outcomes. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2020, 28, 3118-3127.	2.3	26
80	Outcomes in Patients with a Calipered Kinematically Aligned TKA That Already Had a Contralateral Mechanically Aligned TKA. <i>Journal of Knee Surgery</i> , 2021, 34, 087-093.	0.9	26
81	Anterior Laxity, Slippage, and Recovery of Function in the First Year After Tibialis Allograft Anterior Cruciate Ligament Reconstruction. <i>American Journal of Sports Medicine</i> , 2011, 39, 78-88.	1.9	25
82	Reoperations are few and confined to the most valgus phenotypes 4 years after unrestricted calipered kinematically aligned TKA. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2022, 30, 948-957.	2.3	25
83	Time-Related Changes in the Cross-Sectional Area of the Tibial Tunnel After Compaction of an Autograft Bone Dowel Alongside a Hamstring Graft. <i>Arthroscopy - Journal of Arthroscopic and Related Surgery</i> , 2006, 22, 855-860.	1.3	24
84	Principles for Using Hamstring Tendons for Anterior Cruciate Ligament Reconstruction. <i>Clinics in Sports Medicine</i> , 2007, 26, 567-585.	0.9	24
85	Does a positioning rod or a patient-specific guide result in more natural femoral flexion in the concept of kinematically aligned total knee arthroplasty?. <i>Archives of Orthopaedic and Trauma Surgery</i> , 2017, 137, 105-110.	1.3	24
86	The Role of Arthroscopy in Treating Osteoarthritis of the Knee in the Older Patient. <i>Orthopedics</i> , 2010, 33, 652.	0.5	23
87	Migration of Radio-Opaque Markers Injected Into Tendon Grafts: A Study Using Roentgen Stereophotogrammetric Analysis (RSA). <i>Journal of Biomechanical Engineering</i> , 2005, 127, 887-890.	0.6	22
88	Simulation of total knee arthroplasty in 5° or 7° valgus: A study of gap imbalances and changes in limb and knee alignments from native. <i>Journal of Orthopaedic Research</i> , 2017, 35, 2031-2039.	1.2	22
89	A Total Knee Arthroplasty Is Stiffer When the Intraoperative Tibial Force Is Greater than the Native Knee. <i>Journal of Knee Surgery</i> , 2019, 32, 1008-1014.	0.9	22
90	A cruciate-retaining implant can treat both knees of most windswept deformities when performed with calipered kinematically aligned TKA. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2021, 29, 437-445.	2.3	22

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91	In Vivo Adduction and Reverse Axial Rotation (External) of the Tibial Component Can Be Minimized. Orthopedics, 2009, 32, 319.	0.5	22
92	Small differences in tibial contact locations following kinematically aligned TKA from the native contralateral knee. Knee Surgery, Sports Traumatology, Arthroscopy, 2020, 28, 2893-2904.	2.3	21
93	How Cyclic Loading Affects the Migration of Radio-Opaque Markers Attached to Tendon Grafts Using a New Method: A Study Using Roentgen Stereophotogrammetric Analysis (RSA). Journal of Biomechanical Engineering, 2004, 126, 62-69.	0.6	20
94	Evidence Of No Benefit From Knee Surgery For Osteoarthritis Led To Coverage Changes And Is Linked To Decline In Procedures. Health Affairs, 2012, 31, 2242-2249.	2.5	20
95	Gravity Reduces the Tibia When Using a Tibial Guide that Targets the Intercondylar Roof. American Journal of Sports Medicine, 2004, 32, 1702-1710.	1.9	19
96	An In Vivo Study of the Effect of Distal Femoral Resection on Passive Knee Extension. Journal of Arthroplasty, 2010, 25, 1137-1142.	1.5	18
97	Accuracy evaluation of a lower-cost and four higher-cost laser scanners. Journal of Biomechanics, 2016, 49, 127-131.	0.9	18
98	Coupled Motions Under Compressive Load in Intact and ACL-Deficient Knees: A Cadaveric Study. Journal of Biomechanical Engineering, 2007, 129, 818-824.	0.6	17
99	Can kinematic tibial templates assist the surgeon locating the flexion and extension plane of the knee?. Knee, 2017, 24, 1006-1015.	0.8	17
100	Internalâ€“external malalignment of the femoral component in kinematically aligned total knee arthroplasty increases tibial force imbalance but does not change laxities of the tibiofemoral joint. Knee Surgery, Sports Traumatology, Arthroscopy, 2018, 26, 1618-1628.	2.3	17
101	What are the bias, imprecision, and limits of agreement for finding the flexionâ€“extension plane of the knee with five tibial reference lines?. Knee, 2016, 23, 406-411.	0.8	16
102	Increases in tibial force imbalance but not changes in tibiofemoral laxities are caused by varusâ€“valgus malalignment of the femoral component in kinematically aligned TKA. Knee Surgery, Sports Traumatology, Arthroscopy, 2018, 26, 3238-3248.	2.3	16
103	Peri-operative silent myocardial ischaemia in patients undergoing lower limb joint replacement surgery: an indicator of postoperative morbidity or mortality?. Anaesthesia, 1999, 54, 235-240.	1.8	15
104	An Improved Tibial Force Sensor to Compute Contact Forces and Contact Locations In Vitro After Total Knee Arthroplasty. Journal of Biomechanical Engineering, 2017, 139, .	0.6	15
105	Negligible effect of surgeon experience on the accuracy and time to perform unrestricted caliper verified kinematically aligned TKA with manual instruments. Knee Surgery, Sports Traumatology, Arthroscopy, 2022, 30, 2966-2974.	2.3	15
106	The effect of intersegmental knee moments on patellofemoral contact mechanics in cycling. Journal of Biomechanics, 1998, 31, 677-683.	0.9	13
107	High-Stiffness Distal Fixation Restores Anterior Laxity and Stiffness as Well as Joint Line Fixation with an Interference Screw. American Journal of Sports Medicine, 2007, 35, 2073-2082.	1.9	13
108	Does alignment of the limb and tibial width determine relative narrowing between compartments when planning mechanically aligned TKA?. Archives of Orthopaedic and Trauma Surgery, 2018, 138, 91-97.	1.3	13

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109	In Vivo Calibration of a Femoral Fixation Device Transducer for Measuring Anterior Cruciate Ligament Graft Tension: A Study in an Ovine Model. <i>Journal of Biomechanical Engineering</i> , 2001, 123, 355-361.	0.6	12
110	Does Graft Construct Lengthening at the Fixations Cause an Increase in Anterior Laxity Following Anterior Cruciate Ligament Reconstruction in vivo?. <i>Journal of Biomechanical Engineering</i> , 2010, 132, 081001.	0.6	12
111	A Best-Fit of an Anatomic Tibial Baseplate Closely Parallels the Flexion-Extension Plane and Covers a High Percentage of the Proximal Tibia. <i>Journal of Knee Surgery</i> , 2020, 34, 1486-1494.	0.9	12
112	EARLY TENSION LOSS IN AN ANTERIOR CRUCIATE LIGAMENT GRAFT. <i>Journal of Bone and Joint Surgery - Series A</i> , 2005, 87, 381-390.	1.4	12
113	Kinematically Aligned Total Knee Arthroplasty with Patient-Specific Instrument. <i>Yonsei Medical Journal</i> , 2020, 61, 201.	0.9	12
114	Tibial Contact Force and Contact Location Errors of the VERASENSE. <i>Journal of Biomechanical Engineering</i> , 2018, 140, .	0.6	11
115	Tibial forces are more useful than varus/valgus laxities for identifying and correcting overstuffing in kinematically aligned total knee arthroplasty. <i>Journal of Orthopaedic Research</i> , 2021, 39, 1271-1280.	1.2	11
116	Kinematically aligned TKA restores physiological patellofemoral biomechanics in the sagittal plane during a deep knee bend. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2020, 28, 1497-1507.	2.3	10
117	Restoring the Patient's Pre-Arthritic Posterior Slope Is the Correct Target for Maximizing Internal Tibial Rotation When Implanting a PCL Retaining TKA with Calipered Kinematic Alignment. <i>Journal of Personalized Medicine</i> , 2021, 11, 516.	1.1	10
118	More passive internal tibial rotation with posterior cruciate ligament retention than with excision in a medial pivot TKA implanted with unrestricted caliper verified kinematic alignment. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2023, 31, 852-860.	2.3	10
119	A Surgeon That Switched to Unrestricted Kinematic Alignment with Manual Instruments Has a Short Learning Curve and Comparable Resection Accuracy and Outcomes to Those of an Experienced Surgeon. <i>Journal of Personalized Medicine</i> , 2022, 12, 1152.	1.1	10
120	Revision of a Medial UKA to a Kinematic Aligned TKA: Comparison of Operative Complexity, Postoperative Alignment, and Outcome Scores to a Primary TKA. <i>Journal of Knee Surgery</i> , 2021, 34, 406-414.	0.9	9
121	Reorienting the tibial baseplate improves the registration accuracy of model-based radiostereometric analysis. <i>Journal of Biomechanics</i> , 2020, 113, 110078.	0.9	9
122	Kinematically Aligned TKA with MRI-based Cutting Guides. , 0, , 207-207.		9
123	Virtual Axis Finder: A New Method to Determine the Two Kinematic Axes of Rotation for the Tibio-Femoral Joint. <i>Journal of Biomechanical Engineering</i> , 2010, 132, 011009.	0.6	8
124	Errors in Calculating Anterior/Posterior Tibial Contact Locations in Total Knee Arthroplasty Using Three-Dimensional Model to Two-Dimensional Image Registration in Radiographs: An In Vitro Study of Two Methods. <i>Journal of Biomechanical Engineering</i> , 2017, 139, .	0.6	8
125	The posterolateral upslope of a low-conforming insert blocks the medial pivot during a deep knee bend in TKA: a comparative analysis of two implants with different insert conformities. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2023, 31, 3627-3636.	2.3	8
126	Soft Tissue Balance of the Native Knee Provides Guidance for Balancing a Total Knee Arthroplasty. , 2017, , 17-27.		8

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127	The accuracy of signal intensity measurements in magnetic resonance imaging as evaluated within the knee. <i>Magnetic Resonance Imaging</i> , 1992, 10, 573-578.	1.0	7
128	Telemetry system for monitoring anterior cruciate ligament graft forces in vivo. <i>Medical and Biological Engineering and Computing</i> , 1998, 36, 330-336.	1.6	7
129	Autogenous graft choices in ACL reconstruction. <i>Current Opinion in Orthopaedics</i> , 2001, 12, 149-155.	0.3	7
130	Differences in Trochlear Morphology from Native Using a Femoral Component Interfaced with an Anatomical Patellar Prosthesis in Kinematic Alignment and Mechanical Alignment. <i>Journal of Knee Surgery</i> , 2022, 35, 625-633.	0.9	7
131	Kinematically Aligned Total Knee Arthroplasty Using Calipered Measurements, Manual Instruments, and Verification Checks. , 2020, , 279-300.		7
132	Can an isometer predict the tensile behavior of a double-looped hamstring graft during anterior cruciate ligament reconstruction?. <i>Journal of Orthopaedic Research</i> , 1998, 16, 386-393.	1.2	6
133	Rationale and Endoscopic Technique for Anatomic Placement and Rigid Fixation of a Double-Looped Semitendinosus and Gracilis Graft. <i>Techniques in Orthopaedics</i> , 1998, 13, 319-328.	0.1	6
134	The WasherLoc and Bone Dowel: A Rigid, Slippage-Resistant Tibial Fixation Device for a Soft Tissue Anterior Cruciate Ligament Graft. <i>Techniques in Orthopaedics</i> , 2005, 20, 278-282.	0.1	6
135	Roentgen Stereophotogrammetric Analysis Methods for Determining Ten Causes of Lengthening of a Soft-Tissue Anterior Cruciate Ligament Graft Construct. <i>Journal of Biomechanical Engineering</i> , 2008, 130, 041002.	0.6	6
136	Validation of a New Method for Finding the Rotational Axes of the Knee Using Both Marker-Based Roentgen Stereophotogrammetric Analysis and 3D Video-Based Motion Analysis for Kinematic Measurements. <i>Journal of Biomechanical Engineering</i> , 2011, 133, 051003.	0.6	6
137	Static and Fatigue Strength of a Fixation Device Transducer for Measuring Anterior Cruciate Ligament Graft Tension. <i>Journal of Biomechanical Engineering</i> , 2000, 122, 600-603.	0.6	5
138	Avoiding Posterior Cruciate Ligament and Roof Impingement With Transtibial Anterior Cruciate Ligament Reconstruction: Keys to Correct Tunnel Placement. <i>Techniques in Orthopaedics</i> , 2005, 20, 211-217.	0.1	5
139	The EZLoc: A Simple, Rigid Femoral Fixation Device for a Soft Tissue Anterior Cruciate Ligament Graft. <i>Techniques in Orthopaedics</i> , 2005, 20, 238-244.	0.1	5
140	Optimized Design of an Instrumented Spatial Linkage that Minimizes Errors in Locating the Rotational Axes of the Tibiofemoral Joint: A Computational Analysis. <i>Journal of Biomechanical Engineering</i> , 2013, 135, 31003.	0.6	5
141	Errors in femoral anteversion, femoral offset, and vertical offset following robot-assisted total hip arthroplasty. <i>International Journal of Medical Robotics and Computer Assisted Surgery</i> , 2020, 16, e2104.	1.2	5
142	An insert with less than spherical medial conformity causes a loss of passive internal rotation after calipered kinematically aligned TKA. <i>Archives of Orthopaedic and Trauma Surgery</i> , 2021, 141, 2287-2294.	1.3	5
143	Can Markers Injected Into a Single-Loop Anterior Cruciate Ligament Graft Define the Axes of the Tibial and Femoral Tunnels? A Cadaveric Study Using Roentgen Stereophotogrammetric Analysis. <i>Journal of Biomechanical Engineering</i> , 2008, 130, 044503.	0.6	4
144	Repeatability, reproducibility, and agreement of three computational methods to approximate the functional flexion-extension axis of the tibiofemoral joint using 3D bone models of the femur. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2019, 22, 1144-1152.	0.9	4

#	ARTICLE	IF	CITATIONS
145	Which Asymmetric Tibial Component Is Optimally Designed for Calipered Kinematically Aligned Total Knee Arthroplasty?. Journal of Knee Surgery, 2022, 35, 1610-1618.	0.9	4
146	Adjusting Insert Thickness and Tibial Slope Do Not Correct Internal Tibial Rotation Loss Caused by PCL Resection: In Vitro Study of a Medial Constraint TKA Implanted with Unrestricted Calipered Kinematic Alignment. Journal of Knee Surgery, 2023, 36, 507-514.	0.9	4
147	Be Sensible and Cautious About Criticizing Tunnel Placement in ACL Reconstruction. Journal of Bone and Joint Surgery - Series A, 2012, 94, e133.	1.4	3
148	Changes in the rotational axes of the tibiofemoral joint caused by resection of the anterior cruciate ligament. Journal of Orthopaedic Research, 2017, 35, 886-893.	1.2	3
149	Characterization and Correction of Errors in Computing Contact Location Between Curved Articular Surfaces: Application to Total Knee Arthroplasty. Journal of Biomechanical Engineering, 2017, 139, .	0.6	3
150	Morphological errors in 3D bone models of the distal femur and proximal tibia generated from magnetic resonance imaging and computed tomography determined using two registration methods. Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization, 2020, 8, 31-39.	1.3	3
151	Management of a Patient with an Anterior Cruciate Ligament Rupture. Operative Techniques in Sports Medicine, 2009, 17, 39-46.	0.2	2
152	Design, Calibration and Validation of a Novel 3D Printed Instrumented Spatial Linkage that Measures Changes in the Rotational Axes of the Tibiofemoral Joint. Journal of Biomechanical Engineering, 2014, 136, 011003.	0.6	2
153	Alignment Targets in Total Knee Arthroplasty. , 2015, , 145-159.		2
154	What are the six degree-of-freedom errors of a robotically-machined femoral cavity in total hip arthroplasty and are they clinically important? An in-vitro study. Medical Engineering and Physics, 2017, 48, 120-130.	0.8	2
155	Use the Right Looking Glass When You Do Caliper-verified Kinematically Aligned TKA!. Arthroplasty Today, 2022, 15, 139-140.	0.8	2
156	Posterior rim loading of a low-conforming tibial insert in unrestricted kinematic alignment is caused by rotational alignment of an asymmetric baseplate designed for mechanical alignment. Knee Surgery, Sports Traumatology, Arthroscopy, 2023, 31, 3051-3060.	2.3	2
157	<title>Telemetry system for monitoring anterior cruciate ligament graft forces in vivo</title>. , 1997, , .		1
158	Correct Placement of Tibial and Femoral Tunnels for Anterior Cruciate Ligament Reconstruction Using the Transtibial Technique. Techniques in Knee Surgery, 2003, 2, 43-52.	0.1	1
159	Calipered Kinematic Alignment Total Knee Arthroplasty Performed With Specific Manual Instrumentation, Verification Checks, and a Decision Tree. , 2022, , 22-28.		1
160	Compression Fracture. Spine, 1987, 12, 946-947.	1.0	0
161	Dear Editor. American Journal of Sports Medicine, 1993, 21, 632-632.	1.9	0
162	Loss of Motion Due to Graft Impingement (Roof Impingement and Posterior Cruciate Ligament) Tj ETQq0 0 0 rgBT /Overlock 0 Tf 50 62	0.2	0

#	ARTICLE	IF	CITATIONS
163	A Computational Analysis of Error in Locating the Rotational Axes of the Tibiofemoral Joint With an Instrumented Spatial Linkage. , 2012, , .		0
164	Reply to Letter to the Editor: The ACL in the Arthritic Knee: How Often is it Present and Can Preoperative Tests Predict its Presence?. Clinical Orthopaedics and Related Research, 2013, 471, 1055-1055.	0.7	0
165	Propagation of errors in two methods for determining tibial contact locations using single-plane fluoroscopy following total knee arthroplasty. Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization, 2017, , 1-8.	1.3	0
166	The Varus Knee. , 2018, , 3-27.		0
167	L'alignement cinématique des prothèses totales de genou ne restaure pas l'anatomie native de la trochlée. Revue De Chirurgie Orthopedique Et Traumatologique, 2018, 104, 673-685.	0.0	0
168	WasherLoc. , 2018, , 311-314.e1.		0
169	EZLoc. , 2018, , 273-276.e1.		0
170	Does the condylar lift-off method or the separation method better detect loss of contact between tibial and femoral implants based on analysis of single-plane radiographs following total knee arthroplasty?. Journal of Biomechanics, 2019, 86, 40-47.	0.9	0
171	Reducing the Risk and Methods of Managing Stiffness After Calipered Kinematically Aligned Total Knee Arthroplasty. , 2022, , 111-116.		0
172	Retaining the Posterior Cruciate Ligament and Restoring the Prearthritic Tibial Joint Line Reduces the Risk of Early-Onset Tibiofemoral Instability After Calipered Kinematically Aligned Total Knee Arthroplasty. , 2022, , 126-130.		0
173	Reducing the Risk and Management of Patellofemoral Instability After Calipered Kinematically Aligned Total Knee Arthroplasty. , 2022, , 122-125.		0
174	Reducing the Risk and Management of Early and Late Tibial Component Failure After Calipered Kinematically Aligned Total Knee Arthroplasty. , 2022, , 117-121.		0
175	Hamstring Tendons for ACL Reconstruction. , 2004, , 657-668.		0
176	EZLoc Femoral Fixation of a Soft Tissue Graft. , 2008, , 233-241.		0
177	High-Stiffness, Slippage-Resistant Cortical Fixation Has Many Advantages over Intratunnel Fixation. , 2008, , 204-210.		0
178	WasherLoc and Bone Dowel Tibial Fixation of a Soft-Tissue Graft. , 2008, , 316-323.		0
179	Use of the Transtibial Technique to Avoid Posterior Cruciate Ligament and Roof Impingement of an Anterior Cruciate Ligament Graft. , 2008, , 121-128.		0
180	Virtual Axis Finder: A New Method to Identify the Two Kinematic Axes of Rotation for the Tibio-Femoral Joint. , 2009, , .		0

#	ARTICLE	IF	CITATIONS
181	Five Quality Assurance Steps for Balancing a Kinematically Aligned Total Knee Arthroplasty. , 2017, , 79-96.		0
182	Excellent and Good Results Treating Stiffness with Early and Late Manipulation after Unrestricted Caliper-Verified Kinematically Aligned TKA. Journal of Personalized Medicine, 2022, 12, 304.	1.1	0