

Stephen M Howell

List of Publications by Year in descending order

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182
papers

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times ranked

2723
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| # | 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. | 1.5 | 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. | 4.2 | 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. | 4.2 | 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. | 4.2 | 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. | 4.2 | 208 |
| 6 | Do Patient-specific Guides Improve Coronal Alignment in Total Knee Arthroplasty?. <i>Clinical Orthopaedics and Related Research</i> , 2012, 470, 895-902. | 1.5 | 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. | 4.2 | 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. | 4.2 | 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. | 1.1 | 178 |
| 10 | Implant Survival and Function Ten Years After Kinematically Aligned Total Knee Arthroplasty. <i>Journal of Arthroplasty</i> , 2018, 33, 3678-3684. | 3.1 | 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. | 3.0 | 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. | 4.2 | 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. | 1.9 | 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. | 4.2 | 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. | 2.7 | 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. | 1.3 | 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. | 3.0 | 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. | 4.2 | 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. | 4.2 | 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. | 4.2 | 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. | 4.2 | 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. | 3.0 | 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. | 2.7 | 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. | 4.2 | 97 |
| 25 | Anterior cruciate ligament reconstruction: principles of treatment. <i>EFORT Open Reviews</i> , 2016, 1, 398-408. | 4.1 | 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. | 4.2 | 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. | 3.0 | 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. | 2.7 | 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. | 2.5 | 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. | 3.1 | 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. | 2.3 | 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. | 4.2 | 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. | 4.2 | 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. | 4.2 | 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. | 2.7 | 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. | 1.9 | 68 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 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. | 1.2 | 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. | 2.7 | 65 |
| 39 | A new technique for transmission of signals from implantable transducers. <i>IEEE Transactions on Biomedical Engineering</i> , 1998, 45, 614-619. | 4.2 | 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. | 4.2 | 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. | 4.2 | 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. | 2.3 | 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. | 1.1 | 61 |
| 44 | What mechanisms are associated with tibial component failure after kinematically-aligned total knee arthroplasty?. <i>International Orthopaedics</i> , 2017, 41, 1561-1569. | 1.9 | 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. | 1.6 | 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. | 2.3 | 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. | 1.5 | 52 |
| 48 | Longitudinal Shapes of the Tibia and Femur are Unrelated and Variable. <i>Clinical Orthopaedics and Related Research</i> , 2010, 468, 1142-1148. | 1.5 | 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. | 2.3 | 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. | 1.7 | 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. | 4.2 | 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. | 3.1 | 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. | 4.2 | 41 |
| 54 | Checkpoints for Judging Tunnel and Anterior Cruciate Ligament Graft Placement. <i>Journal of Knee Surgery</i> , 2009, 22, 161-170. | 1.6 | 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. | 4.2 | 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. | 1.3 | 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. | 2.3 | 38 |
| 58 | Early Tension Loss in an Anterior Cruciate Ligament Graft. Journal of Bone and Joint Surgery - Series A, 2005, 87, 381-390. | 3.0 | 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. | 2.1 | 36 |
| 60 | Variability in static alignment and kinematics for kinematically aligned TKA. Knee, 2017, 24, 733-744. | 1.6 | 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. | 2.0 | 36 |
| 62 | How Frequent Is Rotational Mismatch Within $0^{\circ}\hat{\sim}10^{\circ}$ in Kinematically Aligned Total Knee Arthroplasty?. Orthopedics, 2013, 36, e1515-20. | 1.1 | 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. | 1.5 | 34 |
| 65 | Foam-Reinforced Elderly Human Tibia Approximates Young Human Tibia Better than Porcine Tibia. American Journal of Sports Medicine, 2004, 32, 755-764. | 4.2 | 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. | 1.6 | 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. | 1.5 | 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. | 0.1 | 31 |
| 69 | Alignment in TKA: what has been clear is not anymore!. Knee Surgery, Sports Traumatology, Arthroscopy, 2019, 27, 2037-2039. | 4.2 | 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. | 2.3 | 30 |
| 71 | The limits of passive motion are variable between and unrelated within normal tibiofemoral joints. Journal of Orthopaedic Research, 2015, 33, 1594-1602. | 2.3 | 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. | 1.8 | 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. | 2.1 | 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. | 4.2 | 28 |
| 75 | Method for Quantifying Patient Expectations and Early Recovery After Total Knee Arthroplasty. <i>Orthopedics</i> , 2009, 32, 884. | 1.1 | 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. | 1.2 | 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. | 2.3 | 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. | 4.2 | 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. | 1.6 | 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. | 4.2 | 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. | 4.2 | 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. | 2.7 | 24 |
| 84 | Principles for Using Hamstring Tendons for Anterior Cruciate Ligament Reconstruction. <i>Clinics in Sports Medicine</i> , 2007, 26, 567-585. | 1.8 | 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. | 2.4 | 24 |
| 86 | The Role of Arthroscopy in Treating Osteoarthritis of the Knee in the Older Patient. <i>Orthopedics</i> , 2010, 33, 652. | 1.1 | 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. | 1.3 | 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. | 2.3 | 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. | 1.6 | 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. | 4.2 | 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. | 1.1 | 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. | 4.2 | 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. | 1.3 | 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. | 5.2 | 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. | 4.2 | 19 |
| 96 | An In Vivo Study of the Effect of Distal Femoral Resection on Passive Knee Extension. Journal of Arthroplasty, 2010, 25, 1137-1142. | 3.1 | 18 |
| 97 | Accuracy evaluation of a lower-cost and four higher-cost laser scanners. Journal of Biomechanics, 2016, 49, 127-131. | 2.1 | 18 |
| 98 | Coupled Motions Under Compressive Load in Intact and ACL-Deficient Knees: A Cadaveric Study. Journal of Biomechanical Engineering, 2007, 129, 818-824. | 1.3 | 17 |
| 99 | Can kinematic tibial templates assist the surgeon locating the flexion and extension plane of the knee?. Knee, 2017, 24, 1006-1015. | 1.6 | 17 |
| 100 | Internal-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. | 4.2 | 17 |
| 101 | What are the bias, imprecision, and limits of agreement for finding the flexion-extension plane of the knee with five tibial reference lines?. Knee, 2016, 23, 406-411. | 1.6 | 16 |
| 102 | Increases in tibial force imbalance but not changes in tibiofemoral laxities are caused by varus-valgus malalignment of the femoral component in kinematically aligned TKA. Knee Surgery, Sports Traumatology, Arthroscopy, 2018, 26, 3238-3248. | 4.2 | 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. | 3.8 | 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, . | 1.3 | 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. | 4.2 | 15 |
| 106 | The effect of intersegmental knee moments on patellofemoral contact mechanics in cycling. Journal of Biomechanics, 1998, 31, 677-683. | 2.1 | 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. | 4.2 | 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. | 2.4 | 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. | 1.3 | 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. | 1.3 | 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. | 1.6 | 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. | 3.0 | 12 |
| 113 | Kinematically Aligned Total Knee Arthroplasty with Patient-Specific Instrument. <i>Yonsei Medical Journal</i> , 2020, 61, 201. | 2.2 | 12 |
| 114 | Tibial Contact Force and Contact Location Errors of the VERASENSE. <i>Journal of Biomechanical Engineering</i> , 2018, 140, . | 1.3 | 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. | 2.3 | 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. | 4.2 | 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. | 2.5 | 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. | 4.2 | 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. | 2.5 | 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. | 1.6 | 9 |
| 121 | Reorienting the tibial baseplate improves the registration accuracy of model-based radiostereometric analysis. <i>Journal of Biomechanics</i> , 2020, 113, 110078. | 2.1 | 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. | 1.3 | 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, . | 1.3 | 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. | 4.2 | 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. | 1.8 | 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. | 2.8 | 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. | 1.6 | 7 |
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