# Andrew A Amis

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/4544811/publications.pdf

Version: 2024-02-01

| | | | |
|---|---|---|---|
| 242 papers | 18,042 citations | 6254 80 h-index | 15266 126 g-index |
| 254 all docs | 254 docs citations | 254 times ranked | 6391 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Anatomy and biomechanics of the medial patellofemoral ligament. Knee, 2003, 10, 215-220. | 1.6 | 642 |
| 2 | Functional anatomy of the anterior cruciate ligament. Fibre bundle actions related to ligament replacements and injuries. Journal of Bone and Joint Surgery: British Volume, 1991, 73-B, 260-267. | 3.4 | 605 |
| 3 | The consequences of meniscectomy. Journal of Bone and Joint Surgery: British Volume, 2006, 88-B, 1549-1556. | 3.4 | 460 |
| 4 | The mechanical properties of the two bundles of the human posterior cruciate ligament. Journal of Biomechanics, 1994, 27, 13-24. | 2.1 | 379 |
| 5 | The anterolateral ligament. Bone and Joint Journal, 2014, 96-B, 325-331. | 4.4 | 348 |
| 6 | The effects of articular, retinacular, or muscular deficiencies on patellofemoral joint stability. Journal of Bone and Joint Surgery: British Volume, 2005, 87-B, 577-582. | 3.4 | 310 |
| 7 | Tensile strength of the medial patellofemoral ligament before and after repair or reconstruction. Journal of Bone and Joint Surgery: British Volume, 2005, 87-B, 36-40. | 3.4 | 283 |
| 8 | The Role of the Anterolateral Structures and the ACL in Controlling Laxity of the Intact and ACL-Deficient Knee. American Journal of Sports Medicine, 2016, 44, 345-354. | 4.2 | 276 |
| 9 | Quantitative study of the quadriceps muscles and trochlear groove geometry related to instability of the patellofemoral joint. Journal of Orthopaedic Research, 1998, 16, 136-143. | 2.3 | 263 |
| 10 | The Role of the Medial Collateral Ligament and Posteromedial Capsule in Controlling Knee Laxity. American Journal of Sports Medicine, 2006, 34, 1815-1823. | 4.2 | 248 |
| 11 | The anterolateral complex of the knee: results from the International ALC Consensus Group Meeting. Knee Surgery, Sports Traumatology, Arthroscopy, 2019, 27, 166-176. | 4.2 | 242 |
| 12 | PCL reconstruction: In vitro biomechanical comparison of 'isometric' versus single and double-bundled 'anatomic' grafts. Journal of Bone and Joint Surgery: British Volume, 1998, 80, 173-179. | 3.4 | 231 |
| 13 | Structural properties of the medial collateral ligament complex of the human knee. Journal of Biomechanics, 2005, 38, 1067-1074. | 2.1 | 227 |
| 14 | Current Concepts Review. American Journal of Sports Medicine, 2007, 35, 484-492. | 4.2 | 220 |
| 15 | Posteromedial Meniscocapsular Lesions Increase Tibiofemoral Joint Laxity With Anterior Cruciate Ligament Deficiency, and Their Repair Reduces Laxity. American Journal of Sports Medicine, 2016, 44, 400-408. | 4.2 | 208 |
| 16 | Current Concepts on Anatomy and Biomechanics of Patellar Stability. Sports Medicine and Arthroscopy Review, 2007, 15, 48-56. | 2.3 | 204 |
| 17 | Surgical Biomechanics of the Patellofemoral Joint. Arthroscopy - Journal of Arthroscopic and Related Surgery, 2007, 23, 542-553. | 2.7 | 202 |
| 18 | Biomechanical Comparison of Anterolateral Procedures Combined With Anterior Cruciate Ligament Reconstruction. American Journal of Sports Medicine, 2017, 45, 347-354. | 4.2 | 201 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Correlation between pre-operative periprosthetic bone density and post-operative bone loss in THA can be explained by strain-adaptive remodelling. Journal of Biomechanics, 1999, 32, 695-703. | 2.1 | 199 |
| 20 | Biomechanics of high tibial osteotomy. Knee Surgery, Sports Traumatology, Arthroscopy, 2013, 21, 197-205. | 4.2 | 194 |
| 21 | Anatomy of the posterior cruciate ligament and the meniscofemoral ligaments. Knee Surgery, Sports Traumatology, Arthroscopy, 2006, 14, 257-263. | 4.2 | 186 |
| 22 | The posteromedial corner revisited. Journal of Bone and Joint Surgery: British Volume, 2004, 86-B, 674-681. | 3.4 | 185 |
| 23 | The attachments of the anteromedial and posterolateral fibre bundles of the anterior cruciate ligament. Knee Surgery, Sports Traumatology, Arthroscopy, 2008, 16, 29-36. | 4.2 | 182 |
| 24 | Biomechanical Comparison of Anatomic Double-Bundle, Anatomic Single-Bundle, and Nonanatomic Single-Bundle Anterior Cruciate Ligament Reconstructions. American Journal of Sports Medicine, 2011, 39, 279-288. | 4.2 | 182 |
| 25 | The Medial Patellofemoral Ligament. American Journal of Sports Medicine, 2012, 40, 1871-1879. | 4.2 | 179 |
| 26 | Elbow joint force predictions for some strenuous isometric actions. Journal of Biomechanics, 1980, 13, 765-775. | 2.1 | 175 |
| 27 | Anatomic and Biomechanical Study of the Lateral Collateral and Popliteofibular Ligaments. American Journal of Sports Medicine, 2001, 29, 466-472. | 4.2 | 175 |
| 28 | Comparative Pull-Out and Cyclic-Loading Strength Tests of Anchorage of Hamstring Tendon Grafts in Anterior Cruciate Ligament Reconstruction. American Journal of Sports Medicine, 1999, 27, 621-625. | 4.2 | 169 |
| 29 | Biomechanics of the PCL and related structures: posterolateral, posteromedial and meniscofemoral ligaments. Knee Surgery, Sports Traumatology, Arthroscopy, 2003, 11, 271-281. | 4.2 | 169 |
| 30 | Length Change Patterns in the Lateral Extra-articular Structures of the Knee and Related Reconstructions. American Journal of Sports Medicine, 2015, 43, 354-362. | 4.2 | 168 |
| 31 | The Effect of Femoral Tunnel Position and Graft Tension on Patellar Contact Mechanics and Kinematics After Medial Patellofemoral Ligament Reconstruction. American Journal of Sports Medicine, 2014, 42, 364-372. | 4.2 | 163 |
| 32 | Intraoperative measurement of knee kinematics in reconstruction of the anterior cruciate ligament. Journal of Bone and Joint Surgery: British Volume, 2002, 84, 1075-1081. | 3.4 | 159 |
| 33 | The effect of muscle loading on the simulation of bone remodelling in the proximal femur. Journal of Biomechanics, 2005, 38, 133-139. | 2.1 | 155 |
| 34 | Variation of finger forces in maximal isometric grasp tests on a range of cylinder diameters. Journal of Biomedical Engineering, 1987, 9, 313-320. | 0.7 | 154 |
| 35 | Patellofemoral kinematics during knee flexion-extension: An in vitro study. Journal of Orthopaedic Research, 2006, 24, 2201-2211. | 2.3 | 154 |
| 36 | The attachments of the anteromedial and posterolateral fibre bundles of the anterior cruciate ligament. Knee Surgery, Sports Traumatology, Arthroscopy, 2007, 15, 1414-1421. | 4.2 | 153 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Measurement of Patellar Tracking: Assessment and Analysis of the Literature. Clinical Orthopaedics and Related Research, 2003, 412, 241-259. | 1.5 | 143 |
| 38 | Finite element modelling of primary hip stem stability: The effect of interference fit. Journal of Biomechanics, 2008, 41, 587-594. | 2.1 | 142 |
| 39 | Biomechanics of the meniscus-meniscal ligament construct of the knee. Knee Surgery, Sports Traumatology, Arthroscopy, 2008, 16, 1121-1132. | 4.2 | 138 |
| 40 | Effects of lateral retinacular release on the lateral stability of the patella. Knee Surgery, Sports Traumatology, Arthroscopy, 2006, 14, 273-277. | 4.2 | 135 |
| 41 | Anterolateral Tenodesis or Anterolateral Ligament Complex Reconstruction: Effect of Flexion Angle at Graft Fixation When Combined With ACL Reconstruction. American Journal of Sports Medicine, 2017, 45, 3089-3097. | 4.2 | 131 |
| 42 | The Attachments of the Fiber Bundles of the Posterior Cruciate Ligament: An Anatomic Study. Arthroscopy - Journal of Arthroscopic and Related Surgery, 2007, 23, 284-290. | 2.7 | 129 |
| 43 | The effect of trochleoplasty on patellar stability and kinematics. Journal of Bone and Joint Surgery: British Volume, 2008, 90-B, 864-869. | 3.4 | 124 |
| 44 | Quantitative measurement of patellofemoral joint stability: Forceâ€“displacement behavior of the human patella in vitro. Journal of Orthopaedic Research, 2003, 21, 780-786. | 2.3 | 123 |
| 45 | Patellofemoral malalignment: looking beyond the viewbox. Clinics in Sports Medicine, 2002, 21, 521-546. | 1.8 | 120 |
| 46 | Biomechanics of intra-articular and extra-articular reconstruction of the anterior cruciate ligament. Journal of Bone and Joint Surgery: British Volume, 1993, 75-B, 812-817. | 3.4 | 117 |
| 47 | The functions of the fibre bundles of the anterior cruciate ligament in anterior drawer, rotational laxity and the pivot shift. Knee Surgery, Sports Traumatology, Arthroscopy, 2012, 20, 613-620. | 4.2 | 117 |
| 48 | Extra-articular techniques in anterior cruciate ligament reconstruction. Journal of Bone and Joint Surgery: British Volume, 2011, 93-B, 1440-1448. | 3.4 | 116 |
| 49 | A comparative study of â€™isometricâ€™ points for anterior cruciate ligament graft attachment. Knee Surgery, Sports Traumatology, Arthroscopy, 2001, 9, 28-33. | 4.2 | 114 |
| 50 | Anatomy of the lateral retinaculum of the knee. Journal of Bone and Joint Surgery: British Volume, 2008, 90-B, 527-534. | 3.4 | 114 |
| 51 | An anatomical study of meniscal allograft sizing. Knee Surgery, Sports Traumatology, Arthroscopy, 2004, 12, 130-135. | 4.2 | 112 |
| 52 | Double-Bundle â€œAnatomicâ€•Anterior Cruciate Ligament Reconstruction: A Cadaveric Study of Tunnel Positioning With a Transtibial Technique. Arthroscopy - Journal of Arthroscopic and Related Surgery, 2007, 23, 7-13. | 2.7 | 112 |
| 53 | Loading of the two bundles of the posterior cruciate ligament: An analysis of bundle function in A-P drawer. Journal of Biomechanics, 1996, 29, 873-879. | 2.1 | 110 |
| 54 | Biomechanics of the menisci of the knee. Orthopaedics and Trauma, 2008, 22, 193-201. | 0.3 | 109 |

| # | Article | IF | Citations |
|---|---|---|---|
| 55 | Biomechanics of rotational instability and anatomic anterior cruciate ligament reconstruction. Operative Techniques in Orthopaedics, 2005, 15, 29-35. | 0.1 | 108 |
| 56 | The effects of lateral meniscal allograft transplantation techniques on tibio-femoral contact pressures. Knee Surgery, Sports Traumatology, Arthroscopy, 2008, 16, 553-560. | 4.2 | 107 |
| 57 | Lateral forceâ€“displacement behaviour of the human patella and its variation with knee flexion â€” a biomechanical study in vitro. Journal of Biomechanics, 1998, 31, 1147-1152. | 2.1 | 103 |
| 58 | Iliotibial band tension affects patellofemoral and tibiofemoral kinematics. Journal of Biomechanics, 2009, 42, 1539-1546. | 2.1 | 103 |
| 59 | The capsular ligaments provide more hip rotational restraint than the acetabular labrum and the ligamentum teres. Bone and Joint Journal, 2015, 97-B, 484-491. | 4.4 | 102 |
| 60 | Standardisation of the description of patellofemoral motion and comparison between different techniques. Knee Surgery, Sports Traumatology, Arthroscopy, 2002, 10, 184-193. | 4.2 | 101 |
| 61 | In vitro testing protocols for the cruciate ligaments and ligament reconstructions. Knee Surgery, Sports Traumatology, Arthroscopy, 1998, 6, S70-S76. | 4.2 | 100 |
| 62 | The effect of femoral attachment location on anterior cruciate ligament reconstruction: graft tension patterns and restoration of normal anterior?posterior laxity patterns. Knee Surgery, Sports Traumatology, Arthroscopy, 2005, 13, 92-100. | 4.2 | 100 |
| 63 | Biomechanical Comparisons of Knee Stability After Anterior Cruciate Ligament Reconstruction Between 2 Clinically Available Transtibial Procedures. American Journal of Sports Medicine, 2010, 38, 1349-1358. | 4.2 | 98 |
| 64 | The cartilaginous and osseous geometry of the femoral trochlear groove. Knee Surgery, Sports Traumatology, Arthroscopy, 2004, 12, 300-6. | 4.2 | 97 |
| 65 | Changes in Knee Kinematics Reflect the Articular Geometry after Arthroplasty. Clinical Orthopaedics and Related Research, 2008, 466, 2491-2499. | 1.5 | 97 |
| 66 | Tensile strength of the medial patellofemoral ligament before and after repair or reconstruction. Journal of Bone and Joint Surgery: British Volume, 2005, 87, 36-40. | 3.4 | 97 |
| 67 | International Meniscus Reconstruction Experts Forum (IMREF) 2015 Consensus Statement on the Practice of Meniscal Allograft Transplantation. American Journal of Sports Medicine, 2017, 45, 1195-1205. | 4.2 | 95 |
| 68 | A Biomechanical Evaluation Of Suture Anchors In Repair Of The Rotator Cuff. Journal of Bone and Joint Surgery: British Volume, 1997, 79, 458-461. | 3.4 | 95 |
| 69 | The meniscofemoral ligaments: secondary restraints to the posterior drawer. Journal of Bone and Joint Surgery: British Volume, 2003, 85-B, 765-773. | 3.4 | 94 |
| 70 | The Effect of Tibial Tuberosity Medialization and Lateralization on Patellofemoral Joint Kinematics, Contact Mechanics, and Stability. American Journal of Sports Medicine, 2015, 43, 186-194. | 4.2 | 94 |
| 71 | Incidence and Mechanism of the Pivot Shift. Clinical Orthopaedics and Related Research, 1999, 363, 219???231. | 1.5 | 91 |
| 72 | Fixation of the graft in reconstruction of the anterior cruciate ligament. Journal of Bone and Joint Surgery: British Volume, 2005, 87-B, 593-603. | 3.4 | 91 |

| # | Article | IF | Citations |
|---|---|---|---|
| 73 | The Geometry of the Trochlear Groove. Clinical Orthopaedics and Related Research, 2010, 468, 782-788. | 1.5 | 91 |
| 74 | The effect of femoral component rotation on the kinematics of the tibiofemoral and patellofemoral joints after total knee arthroplasty. Knee Surgery, Sports Traumatology, Arthroscopy, 2011, 19, 1479-1487. | 4.2 | 87 |
| 75 | Effect of Medial Patellofemoral Ligament Reconstruction Method on Patellofemoral Contact Pressures and Kinematics. American Journal of Sports Medicine, 2016, 44, 1186-1194. | 4.2 | 87 |
| 76 | Meniscofemoral ligaments revisited. Journal of Bone and Joint Surgery: British Volume, 2002, 84, 846-851. | 3.4 | 86 |
| 77 | A review of the function and biomechanics of the meniscofemoral ligaments. Arthroscopy - Journal of Arthroscopic and Related Surgery, 2003, 19, 161-171. | 2.7 | 85 |
| 78 | The Role of Fibers in the Femoral Attachment of the Anterior Cruciate Ligament in Resisting Tibial Displacement. Arthroscopy - Journal of Arthroscopic and Related Surgery, 2015, 31, 435-444. | 2.7 | 81 |
| 79 | Persistence of the Mini Pivot Shift after Anatomically Placed Anterior Cruciate Ligament Reconstruction. Clinical Orthopaedics and Related Research, 2007, 457, 203-209. | 1.5 | 80 |
| 80 | Contributions of the anterolateral complex and the anterolateral ligament to rotatory knee stability in the setting of ACL Injury: a roundtable discussion. Knee Surgery, Sports Traumatology, Arthroscopy, 2017, 25, 997-1008. | 4.2 | 76 |
| 81 | The contribution of the medial retinaculum and quadriceps muscles to patellar lateral stabilityâ€"an in-vitro study. Knee, 2004, 11, 89-94. | 1.6 | 75 |
| 82 | The kinematics and stability of singleâ€radius versus multiâ€radius femoral components related to Midâ€range instability after TKA. Journal of Orthopaedic Research, 2013, 31, 53-58. | 2.3 | 75 |
| 83 | Analysis of boneâ€"prosthesis interface micromotion for cementless tibial prosthesis fixation and the influence of loading conditions. Journal of Biomechanics, 2010, 43, 1074-1080. | 2.1 | 74 |
| 84 | The Ability of Medial Patellofemoral Ligament Reconstruction to Correct Patellar Kinematics and Contact Mechanics in the Presence of a Lateralized Tibial Tubercle. American Journal of Sports Medicine, 2015, 43, 2198-2207. | 4.2 | 73 |
| 85 | Forces in the Knee Joint Whilst Rising from Normal and Motorized Chairs. Engineering in Medicine, 1979, 8, 33-40. | 0.6 | 72 |
| 86 | Anterior cruciate ligament replacement. Knee stability and the effects of implants. Journal of Bone and Joint Surgery: British Volume, 1989, 71-B, 819-824. | 3.4 | 71 |
| 87 | Biomechanics of a double prosthetic ligament in the anterior cruciate deficient knee. Journal of Bone and Joint Surgery: British Volume, 1990, 72-B, 1038-1043. | 3.4 | 70 |
| 88 | A comparison of five tibial-fixation systems in hamstring-graft anterior cruciate ligament reconstruction. Knee Surgery, Sports Traumatology, Arthroscopy, 2004, 12, 391-7. | 4.2 | 68 |
| 89 | The Effects of Anterolateral Tenodesis on Tibiofemoral Contact Pressures and Kinematics. American Journal of Sports Medicine, 2017, 45, 3081-3088. | 4.2 | 68 |
| 90 | Repair of cartilage lesions using biological implants. A comparative histological and biomechanical study in goats. Journal of Bone and Joint Surgery: British Volume, 1991, 73-B, 57-64. | 3.4 | 66 |

| # | Article | IF | Citations |
|---|---|---|---|
| 91 | Unicompartmental Knee Arthroplasty Enables Near Normal Gait at Higher Speeds, Unlike Total Knee Arthroplasty. Journal of Arthroplasty, 2013, 28, 176-178. | 3.1 | 66 |
| 92 | Accuracy of an electromagnetic measurement device and application to the measurement and description of knee joint motion. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 1998, 212, 347-355. | 1.8 | 65 |
| 93 | Control of Laxity in Knees with Combined Posterior Cruciate Ligament and Posterolateral Corner Deficiency. American Journal of Sports Medicine, 2008, 36, 487-494. | 4.2 | 65 |
| 94 | The structural properties of the lateral retinaculum and capsular complex of the knee. Journal of Biomechanics, 2009, 42, 2323-2329. | 2.1 | 65 |
| 95 | Tribological properties of PVA/PVP blend hydrogels against articular cartilage. Journal of the Mechanical Behavior of Biomedical Materials, 2018, 78, 36-45. | 3.1 | 65 |
| 96 | The Effects of Different Tensioning Strategies on Knee Laxity and Graft Tension after Double-Bundle Anterior Cruciate Ligament Reconstruction. American Journal of Sports Medicine, 2007, 35, 2083-2090. | 4.2 | 62 |
| 97 | The effect of overstuffing the patellofemoral joint on the extensor retinaculum of the knee. Knee Surgery, Sports Traumatology, Arthroscopy, 2009, 17, 1211-1216. | 4.2 | 62 |
| 98 | Quantifying the pivot shift test: a systematic review. Knee Surgery, Sports Traumatology, Arthroscopy, 2013, 21, 767-783. | 4.2 | 62 |
| 99 | Clinical biomechanics of instability related to total knee arthroplasty. Clinical Biomechanics, 2014, 29, 119-128. | 1.2 | 61 |
| 100 | The scientific rationale for lateral tenodesis augmentation of intra-articular ACL reconstruction using a modified â€˜Lemaireâ€™ procedure. Knee Surgery, Sports Traumatology, Arthroscopy, 2017, 25, 1339-1344. | 4.2 | 61 |
| 101 | The effect on patellofemoral joint stability of selective cutting of lateral retinacular and capsular structures. Journal of Biomechanics, 2009, 42, 291-296. | 2.1 | 60 |
| 102 | PCL reconstruction. Journal of Bone and Joint Surgery: British Volume, 1998, 80-B, 173-179. | 3.4 | 58 |
| 103 | Total ankle replacement design and positioning affect implant-bone micromotion and bone strains. Medical Engineering and Physics, 2017, 42, 80-90. | 1.7 | 58 |
| 104 | Meniscofemoral ligamentsâ€”structural and material properties. Journal of Biomechanics, 2002, 35, 1623-1629. | 2.1 | 55 |
| 105 | The medial ligaments and the ACL restrain anteromedial laxity of the knee. Knee Surgery, Sports Traumatology, Arthroscopy, 2020, 28, 3700-3708. | 4.2 | 55 |
| 106 | The effect of screw length and position on fixation of four-stranded hamstring grafts for anterior cruciate ligament reconstruction. Knee, 2003, 10, 97-102. | 1.6 | 53 |
| 107 | Sectioning the medial patellofemoral ligament alters patellofemoral joint kinematics and contact mechanics. Journal of Orthopaedic Research, 2013, 31, 1423-1429. | 2.3 | 53 |
| 108 | Anteroposterior Laxity After Bicruciate-Retaining Total Knee Arthroplasty Is Closer to the Native Knee Than ACL-Resecting TKA: A Biomechanical Cadaver Study. Journal of Arthroplasty, 2015, 30, 2315-2319. | 3.1 | 53 |

| # | Article | IF | Citations |
|---|---|---|---|
| 109 | The strength of artificial ligament anchorages. A comparative experimental study. Journal of Bone and Joint Surgery: British Volume, 1988, 70-B, 397-403. | 3.4 | 52 |
| 110 | Patellofemoral joint kinematics: The circular path of the patella around the trochlear axis. Journal of Orthopaedic Research, 2010, 28, 589-594. | 2.3 | 52 |
| 111 | Passive tension and gap formation of rotator cuff repairs. Journal of Shoulder and Elbow Surgery, 2004, 13, 664-667. | 2.6 | 51 |
| 112 | A comparison of modified Larson and â€˜anatomicâ€™ posterolateral corner reconstructions in knees with combined PCL and posterolateral corner deficiency. Knee Surgery, Sports Traumatology, Arthroscopy, 2009, 17, 305-312. | 4.2 | 49 |
| 113 | Length-change patterns of the medial collateral ligament and posterior oblique ligament in relation to their function and surgery. Knee Surgery, Sports Traumatology, Arthroscopy, 2020, 28, 3720-3732. | 4.2 | 49 |
| 114 | The Width:thickness Ratio of the Patella. Clinical Orthopaedics and Related Research, 2008, 466, 1198-1203. | 1.5 | 47 |
| 115 | Intraoperative measurement of knee kinematics in reconstruction of the anterior cruciate ligament. Journal of Bone and Joint Surgery: British Volume, 2002, 84-B, 1075-1081. | 3.4 | 46 |
| 116 | RSA Can Measure ACL Graft Stretching and Migration. Clinical Orthopaedics and Related Research, 2006, 448, 139-145. | 1.5 | 44 |
| 117 | Anterolateral knee biomechanics. Knee Surgery, Sports Traumatology, Arthroscopy, 2017, 25, 1015-1023. | 4.2 | 44 |
| 118 | A BIOMECHANICAL EVALUATION OF SUTURE ANCHORS IN REPAIR OF THE ROTATOR CUFF. Journal of Bone and Joint Surgery: British Volume, 1997, 79-B, 458-461. | 3.4 | 43 |
| 119 | Lack of evidence to support present medial release methods in total knee arthroplasty. Knee Surgery, Sports Traumatology, Arthroscopy, 2014, 22, 3100-3112. | 4.2 | 43 |
| 120 | Incidence and mechanism of the pivot shift. An in vitro study. Clinical Orthopaedics and Related Research, 1999, , 219-31. | 1.5 | 43 |
| 121 | Length change patterns of the extensor retinaculum and the effect of total knee replacement. Journal of Orthopaedic Research, 2009, 27, 865-870. | 2.3 | 42 |
| 122 | Downhill walking gait pattern discriminates between types of knee arthroplasty: improved physiological knee functionality in UKA versus TKA. Knee Surgery, Sports Traumatology, Arthroscopy, 2015, 23, 1748-1755. | 4.2 | 42 |
| 123 | The envelope of passive motion allowed by the capsular ligaments of the hip. Journal of Biomechanics, 2015, 48, 3803-3809. | 2.1 | 42 |
| 124 | Meniscofemoral ligaments revisited. Journal of Bone and Joint Surgery: British Volume, 2002, 84-B, 846-851. | 3.4 | 41 |
| 125 | Length-change patterns of the collateral ligaments after total knee arthroplasty. Knee Surgery, Sports Traumatology, Arthroscopy, 2012, 20, 1349-1356. | 4.2 | 41 |
| 126 | The bone attachments of the medial collateral and posterior oblique ligaments are defined anatomically and radiographically. Knee Surgery, Sports Traumatology, Arthroscopy, 2020, 28, 3709-3719. | 4.2 | 40 |

| # | Article | IF | Citations |
|---|---|---|---|
| 127 | Strain-rate sensitivity of the lateral collateral ligament of the knee. Journal of the Mechanical Behavior of Biomedical Materials, 2015, 41, 261-270. | 3.1 | 39 |
| 128 | Active Patellar Tracking Measurement. American Journal of Sports Medicine, 2004, 32, 1209-1217. | 4.2 | 38 |
| 129 | Biomechanics of Patellofemoral Joint Prostheses. Clinical Orthopaedics and Related Research, 2005, &NA;, 20-29. | 1.5 | 38 |
| 130 | Biomechanical Analysis of Knee Laxity With Isolated Anteromedial or Posterolateral Bundleâ€“Deficient Anterior Cruciate Ligament. Arthroscopy - Journal of Arthroscopic and Related Surgery, 2014, 30, 335-343. | 2.7 | 38 |
| 131 | Digital volume correlation and micro-CT: An in-vitro technique for measuring full-field interface micromotion around polyethylene implants. Journal of Biomechanics, 2015, 48, 3447-3454. | 2.1 | 38 |
| 132 | Biomechanical Comparisons Between 4-Strand and Modified Larson 2-Strand Procedures for Reconstruction of the Posterolateral Corner of the Knee. American Journal of Sports Medicine, 2011, 39, 1462-1469. | 4.2 | 37 |
| 133 | Patellar thickness and lateral retinacular release affects patellofemoral kinematics in total knee arthroplasty. Knee Surgery, Sports Traumatology, Arthroscopy, 2014, 22, 526-533. | 4.2 | 37 |
| 134 | A comparative study of single-and double-bundle ACL reconstructions in sheep. Knee Surgery, Sports Traumatology, Arthroscopy, 1994, 2, 94-99. | 4.2 | 36 |
| 135 | Patellar resection during total knee arthroplasty: effect on bone strain and fracture risk. Knee Surgery, Sports Traumatology, Arthroscopy, 2005, 13, 203-208. | 4.2 | 35 |
| 136 | Review: femoral tunnel placement for PCL reconstruction in relation to the PCL fibre bundle attachments. Knee Surgery, Sports Traumatology, Arthroscopy, 2009, 17, 652-659. | 4.2 | 35 |
| 137 | Can we define envelope of laxity during navigated knee arthroplasty?. Knee Surgery, Sports Traumatology, Arthroscopy, 2014, 22, 1736-1743. | 4.2 | 35 |
| 138 | Kinematic behaviour and soft tissue management in guided motion total knee replacement. Knee Surgery, Sports Traumatology, Arthroscopy, 2014, 22, 3074-3082. | 4.2 | 34 |
| 139 | The fixation strength of a novel ACL soft-tissue graft fixation device compared with conventional interference screws: a biomechanical study in vitro. Knee Surgery, Sports Traumatology, Arthroscopy, 2011, 19, 559-567. | 4.2 | 33 |
| 140 | A morphometric study of normal and varus knees. Knee Surgery, Sports Traumatology, Arthroscopy, 2014, 22, 2891-2899. | 4.2 | 33 |
| 141 | The Role of the Anterolateral Structures and the ACL in Controlling Laxity of the Intact and ACL-Deficient Knee: Response. American Journal of Sports Medicine, 2016, 44, NP15-NP18. | 4.2 | 33 |
| 142 | Prediction of structural failure of tibial bone models under physiological loads: Effect of CT densityâ€“modulus relationships. Medical Engineering and Physics, 2014, 36, 991-997. | 1.7 | 31 |
| 143 | Properties and Function of the Medial Patellofemoral Ligament: A Systematic Review. American Journal of Sports Medicine, 2020, 48, 754-766. | 4.2 | 31 |
| 144 | The role of PCL reconstruction in knees with combined PCL and posterolateral corner deficiency. Knee Surgery, Sports Traumatology, Arthroscopy, 2008, 16, 104-111. | 4.2 | 30 |

| # | Article | IF | Citations |
|---|---|---|---|
| 145 | Rotator cuff repair failure inÂvivo: a radiostereometric measurement study. Journal of Shoulder and Elbow Surgery, 2011, 20, 1194-1199. | 2.6 | 29 |
| 146 | A comparative study of the effects of different bioactive fillers in PLGA matrix composites and their suitability as bone substitute materials: A thermo-mechanical and in vitro investigation. Journal of the Mechanical Behavior of Biomedical Materials, 2015, 50, 277-289. | 3.1 | 29 |
| 147 | Clinically relevant biomechanics of the knee capsule and ligaments. Knee Surgery, Sports Traumatology, Arthroscopy, 2015, 23, 2789-2796. | 4.2 | 29 |
| 148 | The infrapatellar fat pad is a dynamic and mobile structure, which deforms during knee motion, and has proximal extensions which wrap around the patella. Knee Surgery, Sports Traumatology, Arthroscopy, 2018, 26, 3515-3524. | 4.2 | 29 |
| 149 | The mechanical properties of human flexor tendons in relation to artificial tendons. Journal of Hand Surgery, 1985, 10, 331-336. | 0.8 | 28 |
| 150 | Tribological evaluation of biomedical polycarbonate urethanes against articular cartilage. Journal of the Mechanical Behavior of Biomedical Materials, 2018, 82, 394-402. | 3.1 | 28 |
| 151 | The meniscofemoral ligaments: secondary restraints to the posterior drawer. Analysis of anteroposterior and rotary laxity in the intact and posterior-cruciate-deficient knee. Journal of Bone and Joint Surgery: British Volume, 2003, 85, 765-73. | 3.4 | 28 |
| 152 | Review on tension in the natural and reconstructed anterior cruciate ligament. Knee Surgery, Sports Traumatology, Arthroscopy, 1994, 2, 192-202. | 4.2 | 27 |
| 153 | Biomechanics of the Anterolateral Structures of the Knee. Clinics in Sports Medicine, 2018, 37, 21-31. | 1.8 | 27 |
| 154 | A Technique of Staged Lateral Release to Correct Patellar Tracking in Total Knee Arthroplasty. Journal of Arthroplasty, 2009, 24, 735-742. | 3.1 | 26 |
| 155 | The influence of muscle pennation angle and cross-sectional area on contact forces in the ankle joint. Journal of Strain Analysis for Engineering Design, 2017, 52, 12-23. | 1.8 | 25 |
| 156 | The transpatellar approach for the knee in the laboratory. Journal of Orthopaedic Research, 2009, 27, 330-334. | 2.3 | 24 |
| 157 | How does laxity after single radius total knee arthroplasty compare with the native knee?. Journal of Orthopaedic Research, 2014, 32, 1208-1213. | 2.3 | 24 |
| 158 | ACL reconstruction combined with lateral monoloop tenodesis can restore intact knee laxity. Knee Surgery, Sports Traumatology, Arthroscopy, 2020, 28, 1159-1168. | 4.2 | 24 |
| 159 | The effect of femoral component rotation on the extensor retinaculum of the knee. Journal of Orthopaedic Research, 2010, 28, 1136-1141. | 2.3 | 23 |
| 160 | Validation of multiple subject-specific finite element models of unicompartmental knee replacement. Medical Engineering and Physics, 2013, 35, 1457-1464. | 1.7 | 23 |
| 161 | The superficial medial collateral ligament is the primary medial restraint to knee laxity after cruciate-retaining or posterior-stabilised total knee arthroplasty: effects of implant type and partial release. Knee Surgery, Sports Traumatology, Arthroscopy, 2016, 24, 2646-2655. | 4.2 | 22 |
| 162 | A cadaveric model to evaluate the effect of unloading the medial quadriceps on patellar tracking and patellofemoral joint pressure and stability. Journal of Experimental Orthopaedics, 2018, 5, 34. | 1.8 | 22 |

| # | Article | IF | Citations |
|---|---|---|---|
| 163 | Biomechanical Assessment of a Distally Fixed Lateral Extra-articular Augmentation Procedure in the Treatment of Anterolateral Rotational Laxity of the Knee. American Journal of Sports Medicine, 2019, 47, 2102-2109. | 4.2 | 21 |
| 164 | Isolated popliteus tendon injury does not lead to abnormal laxity in posterior-stabilised total knee arthroplasty. Knee Surgery, Sports Traumatology, Arthroscopy, 2015, 23, 1763-1769. | 4.2 | 19 |
| 165 | Biomechanical Aspects of the Elbow: Joint Forces Related to Prosthesis Design. Engineering in Medicine, 1981, 10, 65-68. | 0.6 | 18 |
| 166 | Knee Joint Line Obliquity Causes Tibiofemoral Subluxation That Alters Contact Areas and Meniscal Loading. American Journal of Sports Medicine, 2021, 49, 2351-2360. | 4.2 | 18 |
| 167 | A quantitative technique to create a femoral tunnel at the averaged center of the anteromedial bundle attachment in anatomic double-bundle anterior cruciate ligament reconstruction. BMC Musculoskeletal Disorders, 2013, 14, 189. | 1.9 | 17 |
| 168 | Dynamic augmentation restores anterior tibial translation in ACL suture repair: a biomechanical comparison of non-, static and dynamic augmentation techniques. Knee Surgery, Sports Traumatology, Arthroscopy, 2018, 26, 2986-2996. | 4.2 | 17 |
| 169 | Failure mechanisms of polyester fiber anterior cruciate ligament implants: A human retrieval and laboratory study. , 1999, 48, 534-539. | | 16 |
| 170 | Biomechanical comparison of graft structures in anterior cruciate ligament reconstruction. Knee Surgery, Sports Traumatology, Arthroscopy, 2017, 25, 559-568. | 4.2 | 16 |
| 171 | Method for visualising and measuring the position of the femoral attachment of the ACL and ACL grafts in experimental work. Journal of Biomechanics, 1998, 31, 387-390. | 2.1 | 15 |
| 172 | Iliotibial band tension reduces patellar lateral stability. Journal of Orthopaedic Research, 2009, 27, 335-339. | 2.3 | 15 |
| 173 | No difference in patellar tracking between symmetrical and asymmetrical femoral component designs in TKA. Knee Surgery, Sports Traumatology, Arthroscopy, 2014, 22, 534-542. | 4.2 | 15 |
| 174 | Medial Collateral Ligament Reconstruction for Anteromedial Instability of the Knee: A Biomechanical Study In Vitro. American Journal of Sports Medicine, 2022, 50, 1823-1831. | 4.2 | 15 |
| 175 | Femoral articular geometry and patellofemoral stability. Knee, 2017, 24, 555-563. | 1.6 | 14 |
| 176 | The Role of Fibers Within the Tibial Attachment of the Anterior Cruciate Ligament in Restraining Tibial Displacement. Arthroscopy - Journal of Arthroscopic and Related Surgery, 2019, 35, 2101-2111. | 2.7 | 14 |
| 177 | Strength of Interference Screw Fixation to Cuboid vs Pulvertaft Weave to Peroneus Brevis for Tibialis Posterior Tendon Transfer for Foot Drop. Foot and Ankle International, 2018, 39, 858-864. | 2.3 | 13 |
| 178 | A method to quantify alteration of knee kinematics caused by changes of TKR positioning. Journal of Biomechanics, 2009, 42, 665-670. | 2.1 | 12 |
| 179 | Rotator cuffâ€“sparing approaches for glenohumeral joint access: an anatomic feasibility study. Journal of Shoulder and Elbow Surgery, 2017, 26, 512-520. | 2.6 | 12 |
| 180 | It is safe and effective to use all inside meniscal repair devices for posteromedial meniscal â€˜rampâ€™ lesions. Knee Surgery, Sports Traumatology, Arthroscopy, 2018, 26, 2310-2316. | 4.2 | 12 |

| # | Article | IF | Citations |
|---|---|---|---|
| 181 | Effect of Anterolateral Complex Sectioning and Tenodesis on Patellar Kinematics and Patellofemoral Joint Contact Pressures. American Journal of Sports Medicine, 2018, 46, 2922-2928. | 4.2 | 12 |
| 182 | A constrained-condylar fixed-bearing total knee arthroplasty is stabilised by the medial soft tissues. Knee Surgery, Sports Traumatology, Arthroscopy, 2021, 29, 659-667. | 4.2 | 12 |
| 183 | A Triple-Strand Anatomic Medial Collateral Ligament Reconstruction Restores Knee Stability More Completely Than a Double-Strand Reconstruction: A Biomechanical Study In Vitro. American Journal of Sports Medicine, 2022, 50, 1832-1842. | 4.2 | 12 |
| 184 | THE INFLUENCE OF TIBIAL PROSTHESIS DESIGN FEATURES ON STRESSES RELATED TO ASEPTIC LOOSENING AND STRESS SHIELDING. Journal of Mechanics in Medicine and Biology, 2011, 11, 55-72. | 0.7 | 11 |
| 185 | Strain rate dependency of fractures of immature bone. Journal of the Mechanical Behavior of Biomedical Materials, 2017, 66, 68-76. | 3.1 | 11 |
| 186 | Posterior capsular release is a biomechanically safe procedure to perform in total knee arthroplasty. Knee Surgery, Sports Traumatology, Arthroscopy, 2019, 27, 1587-1594. | 4.2 | 11 |
| 187 | The medial collateral ligament: the neglected ligament. Knee Surgery, Sports Traumatology, Arthroscopy, 2020, 28, 3698-3699. | 4.2 | 11 |
| 188 | Total knee arthroplasty reduces knee extension torque in-vitro and patellofemoral arthroplasty does not. Journal of Biomechanics, 2020, 104, 109739. | 2.1 | 11 |
| 189 | Mechanical testing of intra-articular tissues. Relating experiments to physiological function. Orthopaedics and Trauma, 2008, 22, 341-348. | 0.3 | 10 |
| 190 | The extensor efficiency of unicompartmental, bicompartmental, and total knee arthroplasty. Bone and Joint Research, 2021, 10, 1-9. | 3.6 | 10 |
| 191 | Stability of small pegs for cementless implant fixation. Journal of Orthopaedic Research, 2017, 35, 2765-2772. | 2.3 | 9 |
| 192 | Partial and Combined Partial Knee Arthroplasty: Greater Anterior-Posterior Stability Than Posterior Cruciateâ€“Retaining Total Knee Arthroplasty. Journal of Arthroplasty, 2021, 36, 3765-3772.e4. | 3.1 | 9 |
| 193 | Development of the apex polyester fibre cruciate ligament implant. Clinical Materials, 1994, 15, 51-60. | 0.5 | 8 |
| 194 | Patellofemoral Joint Biomechanics. , 2005, , 37-53. | | 8 |
| 195 | Measurement of migration of soft tissue by modified Roentgen stereophotogrammetric analysis (RSA): validation of a new technique to monitor rotator cuff tears. Journal of Medical Engineering and Technology, 2010, 34, 159-165. | 1.4 | 8 |
| 196 | Variable bone mineral density reductions post-unicompartmental knee arthroplasty. Knee Surgery, Sports Traumatology, Arthroscopy, 2015, 23, 2230-2236. | 4.2 | 8 |
| 197 | Parametric analysis of glenoid implant design and fixation type. Journal of Orthopaedic Research, 2017, 35, 775-784. | 2.3 | 8 |
| 198 | Ligamentous and capsular restraints to anterior-posterior and superior-inferior laxity of the acromioclavicular joint: a biomechanical study. Journal of Shoulder and Elbow Surgery, 2021, 30, 1251-1256. | 2.6 | 8 |

| # | Article | IF | Citations |
|---|---|---|---|
| 199 | Patello-femoral joint replacement. Orthopaedics and Trauma, 1999, 13, 64-70. | 0.3 | 7 |
| 200 | Influence of increasing construct constraint in the presence of posterolateral deficiency at knee replacement: A biomechanical study. Journal of Orthopaedic Research, 2016, 34, 427-434. | 2.3 | 7 |
| 201 | An in vitro analysis of medial structures and a medial soft tissue reconstruction in a constrained condylar total knee arthroplasty. Knee Surgery, Sports Traumatology, Arthroscopy, 2017, 25, 2646-2655. | 4.2 | 7 |
| 202 | Pre-clinical assessment of total knee replacement anterior-posterior constraint. Journal of Biomechanics, 2018, 73, 153-160. | 2.1 | 7 |
| 203 | Flexor digitorum longus tendon transfer to the navicular: tendon-to-tendon repair is stronger compared with interference screw fixation. Knee Surgery, Sports Traumatology, Arthroscopy, 2020, 28, 320-325. | 4.2 | 7 |
| 204 | An Anterior Cruciate Ligament In Vitro Rupture Model Based on Clinical Imaging. American Journal of Sports Medicine, 2021, 49, 2387-2395. | 4.2 | 7 |
| 205 | Bi-unicondylar arthroplasty. Bone and Joint Research, 2021, 10, 723-733. | 3.6 | 7 |
| 206 | Anatomy and Biomechanics of the Posterior Cruciate Ligament. Sports Medicine and Arthroscopy Review, 1999, 7, 225-234. | 2.3 | 6 |
| 207 | Neural Structures within Human Meniscofemoral Ligaments: A Cadaveric Study. ISRN Anatomy, 2014, 2014, 1-6. | 0.5 | 6 |
| 208 | The effect of knee extensor open kinetic chain resistance training in the ACL-injured knee. Knee Surgery, Sports Traumatology, Arthroscopy, 2015, 23, 3168-3177. | 4.2 | 6 |
| 209 | Lateral soft-tissue structures contribute to cruciate-retaining total knee arthroplasty stability. Journal of Orthopaedic Research, 2017, 35, 1902-1909. | 2.3 | 6 |
| 210 | Surgical anatomy of the foot and ankle. Knee Surgery, Sports Traumatology, Arthroscopy, 2010, 18, 555-556. | 4.2 | 5 |
| 211 | Isometric placement of the augmentation braid is not attained reliably in contemporary ACL suture repair. Knee, 2020, 27, 111-123. | 1.6 | 5 |
| 212 | Redesigning Metal Interference Screws Can Improve Ease of Insertion While Maintaining Fixation of Soft-Tissue Anterior Cruciate Ligament Reconstruction Grafts. Arthroscopy, Sports Medicine, and Rehabilitation, 2020, 2, e137-e144. | 1.7 | 5 |
| 213 | Systematic review of tendon transfers in the foot and ankle using interference screw fixation: Outcomes and safety of early versus standard postoperative rehabilitation. Foot and Ankle Surgery, 2022, 28, 166-175. | 1.7 | 5 |
| 214 | Variation in the patellar tendon moment arm identified with an improved measurement framework. Journal of Orthopaedic Research, 2022, 40, 799-807. | 2.3 | 5 |
| 215 | Treatment of the Fixation Surface Improves Glenoid Prosthesis Longevity in vitro. Journal of Biomechanics, 2017, 61, 81-87. | 2.1 | 4 |
| 216 | Effect of patellofemoral pain on foot posture and walking kinematics. Gait and Posture, 2019, 70, 361-369. | 1.4 | 4 |

| # | Article | IF | Citations |
|---|---|---|---|
| 217 | The Medial Patellofemoral Ligament. , 2014, , 113-125. | | 4 |
| 218 | ACL graft compression: a method to allow reduced tunnel sizes in ACL reconstruction. Knee Surgery, Sports Traumatology, Arthroscopy, 2018, 26, 2430-2437. | 4.2 | 3 |
| 219 | Reduced tibial strain-shielding with extraosseous total knee arthroplasty revision system. Medical Engineering and Physics, 2018, 62, 22-28. | 1.7 | 3 |
| 220 | Editorial Commentary: Taking a Wider View During Anterior Cruciate Ligament Reconstruction? The Case for Doing More Than Just Reconstructing the Anterior Cruciate Ligament Itself. Arthroscopy - Journal of Arthroscopic and Related Surgery, 2019, 35, 1484-1485. | 2.7 | 3 |
| 221 | Acromioclavicular joint reconstruction implants have differing ability to restore horizontal and vertical plane stability. Knee Surgery, Sports Traumatology, Arthroscopy, 2021, 29, 3902-3909. | 4.2 | 3 |
| 222 | The anatomy and biomechanics of the medial collateral ligament and posteromedial corner of the knee. , 2012, , 23-30. | | 2 |
| 223 | Physiology: Biomechanics. , 2016, , 35-45. | | 2 |
| 224 | The anterolateral aspect of the knee: the state of play. Knee Surgery, Sports Traumatology, Arthroscopy, 2017, 25, 989-990. | 4.2 | 2 |
| 225 | Cadaveric study validating in vitro monitoring techniques to measure the failure mechanism of glenoid implants against clinical CT. Journal of Orthopaedic Research, 2018, 36, 2524-2532. | 2.3 | 2 |
| 226 | Strength of interference screw fixation of meniscus prosthesis matches native meniscus attachments. Knee Surgery, Sports Traumatology, Arthroscopy, 2022, 30, 2259-2266. | 4.2 | 2 |
| 227 | Validity of repeated-measures analyses of in vitro arthroplasty kinematics and kinetics. Journal of Biomechanics, 2021, 129, 110669. | 2.1 | 1 |
| 228 | Bone adaptation to a polyester fiber anterior cruciate ligament replacement. Journal of Long-Term Effects of Medical Implants, 1999, 9, 153-68. | 0.7 | 1 |
| 229 | Basic FGF Mediates ERK Activation in Articular Cartilage Explants upon Cyclical Loading. Clinical Science, 2003, 104, 46P-47P. | 0.0 | 0 |
| 230 | Reply to O. Cebesoyâ€™s comments on the paper â€œEffects of lateral retinacular release on the lateral stability of the patellaâ€• Knee Surgery, Sports Traumatology, Arthroscopy, 2007, 15, 826-827. | 4.2 | 0 |
| 231 | Graft tunnel positioning during PCL reconstruction. , 2012, , 387-393. | | 0 |
| 232 | 1 Anatomy and Biomechanics of the Natural Knee and After TKR. , 2015, , 3-15. | | 0 |
| 233 | Scientific Basis and Surgical Technique for Iliotibial Band Tenodesis Combined with ACL Reconstruction. , 2017, , 393-404. | | 0 |
| 234 | Biomechanical Role of Lateral Structures in Controlling Anterolateral Rotatory Laxity: The Iliotibial Tract. Operative Techniques in Orthopaedics, 2017, 27, 96-101. | 0.1 | 0 |

| # | Article | IF | Citations |
|---|---|---|---|
| 235 | Novel curved surface preparation technique for knee resurfacing. Medical Engineering and Physics, 2017, 49, 89-93. | 1.7 | 0 |
| 236 | The Envelope of Laxity of the Pivot Shift Test. , 2017, , 223-234. | | 0 |
| 237 | Femoral Tunnel Placement to Restore Normal Knee Laxity after Anterior Cruciate Ligament Reconstruction. , 2018, , 188-193.e1. | | 0 |
| 238 | Letter to the Editor on â€œAnterior cruciate ligament repair versus reconstruction: A kinematic analysisâ€• Knee, 2020, 27, 609-610. | 1.6 | 0 |
| 239 | Femoral Tunnel Placement to Restore Normal Knee Laxity After Anterior Cruciate Ligament Reconstruction. , 2008, , 140-146. | | 0 |
| 240 | The Use of Computer-Assisted Surgery During Patellofemoral Arthroplasty. , 2013, , 143-158. | | 0 |
| 241 | ICL-15 Cartilage Lesion and the Patellofemoral Joint. , 2014, , 127-138. | | 0 |
| 242 | Length Change Patterns of the Medial Ligaments of the Knee Joint. The Proceedings of Mechanical Engineering Congress Japan, 2019, 2019, J04223P. | 0.0 | 0 |