

Stephen J Mellon

List of Publications by Year in descending order

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Version: 2024-02-01

66
papers

1,667
citations

279798

23
h-index

315739

38
g-index

70
all docs

70
docs citations

70
times ranked

1279
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | The clinical outcome of minimally invasive Phase 3 Oxford unicompartmental knee arthroplasty. Bone and Joint Journal, 2015, 97-B, 1493-1499. | 4.4 | 232 |
| 2 | Evidence-Based Indications for Mobile-Bearing Unicompartmental Knee Arthroplasty in a Consecutive Cohort of Thousand Knees. Journal of Arthroplasty, 2017, 32, 1779-1785. | 3.1 | 112 |
| 3 | Anterior knee pain and evidence of osteoarthritis of the patellofemoral joint should not be considered contraindications to mobile-bearing unicompartmental knee arthroplasty. Bone and Joint Journal, 2017, 99-B, 632-639. | 4.4 | 77 |
| 4 | The Interaction of Caseload and Usage in Determining Outcomes of Unicompartmental Knee Arthroplasty: A Meta-Analysis. Journal of Arthroplasty, 2017, 32, 3228-3237.e2. | 3.1 | 72 |
| 5 | The influence of cemented femoral stem choice on the incidence of revision for periprosthetic fracture after primary total hip arthroplasty. Bone and Joint Journal, 2016, 98-B, 1347-1354. | 4.4 | 67 |
| 6 | Unsatisfactory outcomes following unicompartmental knee arthroplasty in patients with partial thickness cartilage loss. Bone and Joint Journal, 2017, 99-B, 475-482. | 4.4 | 63 |
| 7 | Evaluation of factors affecting tibial bone strain after unicompartmental knee replacement. Journal of Orthopaedic Research, 2013, 31, 821-828. | 2.3 | 59 |
| 8 | Follow-Up of Metal-on-Metal Hip Arthroplasty Patients Is Currently Not Evidence Based or Cost Effective. Journal of Arthroplasty, 2015, 30, 1317-1323. | 3.1 | 55 |
| 9 | Liposomal bupivacaine infiltration at the surgical site for the management of postoperative pain. The Cochrane Library, 2020, 2020, CD011419. | 2.8 | 53 |
| 10 | Ten-year clinical and radiographic results of 1000 cementless Oxford unicompartmental knee replacements. Knee Surgery, Sports Traumatology, Arthroscopy, 2020, 28, 1479-1487. | 4.2 | 46 |
| 11 | Obesity should not be considered a contraindication to medial Oxford UKA: long-term patient-reported outcomes and implant survival in 1000 knees. Knee Surgery, Sports Traumatology, Arthroscopy, 2019, 27, 2259-2265. | 4.2 | 44 |
| 12 | Individual motion patterns during gait and sit-to-stand contribute to edge-loading risk in metal-on-metal hip resurfacing. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2013, 227, 799-810. | 1.8 | 42 |
| 13 | Bone and its adaptation to mechanical loading: a review. International Materials Reviews, 2012, 57, 235-255. | 19.3 | 41 |
| 14 | Optimal acetabular component orientation estimated using edge-loading and impingement risk in patients with metal-on-metal hip resurfacing arthroplasty. Journal of Biomechanics, 2015, 48, 318-323. | 2.1 | 39 |
| 15 | Liposomal bupivacaine peripheral nerve block for the management of postoperative pain. The Cochrane Library, 2022, 2022, CD011476. | 2.8 | 36 |
| 16 | Hip replacement: Landmark surgery in modern medical history. Maturitas, 2013, 75, 221-226. | 2.4 | 35 |
| 17 | <i>In vivo</i> evaluation of edge-loading in metal-on-metal hip resurfacing patients with pseudotumours. Bone and Joint Research, 2012, 1, 42-49. | 3.6 | 33 |
| 18 | Surgeons' Accuracy in Achieving Their Desired Acetabular Component Orientation. Journal of Bone and Joint Surgery - Series A, 2016, 98, e72. | 3.0 | 32 |

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|----|--|-----|-----------|
| 19 | Age and Outcomes of Medial Meniscal-Bearing Unicompartmental Knee Arthroplasty. <i>Journal of Arthroplasty</i> , 2018, 33, 3153-3159. | 3.1 | 31 |
| 20 | Adherence monitoring of rehabilitation exercise with inertial sensors: A clinical validation study. <i>Gait and Posture</i> , 2019, 70, 211-217. | 1.4 | 30 |
| 21 | Most unicompartmental knee replacement revisions could be avoided: a radiographic evaluation of revised Oxford knees in the National Joint Registry. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2020, 28, 3926-3934. | 4.2 | 29 |
| 22 | The effect of motion patterns on edge-loading of metal-on-metal hip resurfacing. <i>Medical Engineering and Physics</i> , 2011, 33, 1212-1220. | 1.7 | 28 |
| 23 | Does activity affect the outcome of the Oxford unicompartmental knee replacement?. <i>Knee</i> , 2016, 23, 327-330. | 1.6 | 27 |
| 24 | Lateral osteophytes do not represent a contraindication to medial unicompartmental knee arthroplasty: a 15-year follow-up. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2017, 25, 652-659. | 4.2 | 27 |
| 25 | Comparison of outcomes after UKA in patients with and without chondrocalcinosis: a matched cohort study. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2017, 25, 319-324. | 4.2 | 24 |
| 26 | Oxford domed lateral unicompartmental knee arthroplasty. <i>Bone and Joint Journal</i> , 2020, 102-B, 1033-1040. | 4.4 | 24 |
| 27 | 2-dimensional MEMS dielectrophoresis device for osteoblast cell stimulation. <i>Biomedical Microdevices</i> , 2006, 8, 353-359. | 2.8 | 22 |
| 28 | Medial meniscal extrusion: a validation study comparing different methods of assessment. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2018, 26, 1152-1157. | 4.2 | 19 |
| 29 | Optimal interference of the tibial component of the cementless Oxford Unicompartmental Knee Replacement. <i>Bone and Joint Research</i> , 2018, 7, 226-231. | 3.6 | 18 |
| 30 | Automatic bone segmentation in ultrasound images using local phase features and dynamic programming. , 2016, , . | | 17 |
| 31 | The effect of obesity on revision rate in unicompartmental knee arthroplasty: a systematic review and meta-analysis. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2021, 29, 3467-3477. | 4.2 | 17 |
| 32 | A computer-aided tracking and motion analysis with ultrasound (CAT & MAUS) system for the description of hip joint kinematics. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2016, 11, 1965-1977. | 2.8 | 14 |
| 33 | Cementless unicompartmental knee replacement achieves better ten-year clinical outcomes than cemented: a systematic review. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2021, 29, 3229-3245. | 4.2 | 14 |
| 34 | Functional Outcome and Revision Rate Are Independent of Limb Alignment Following Oxford Medial Unicompartmental Knee Replacement. <i>Journal of Bone and Joint Surgery - Series A</i> , 2019, 101, 270-275. | 3.0 | 12 |
| 35 | Evaluation of the accuracy of three popular regression equations for hip joint centre estimation using computerised tomography measurements for metal-on-metal hip resurfacing arthroplasty patients. <i>Gait and Posture</i> , 2013, 38, 1044-1047. | 1.4 | 11 |
| 36 | Unicompartmental knee replacement: Does the macroscopic status of the anterior cruciate ligament affect outcome?. <i>Knee</i> , 2016, 23, 506-510. | 1.6 | 11 |

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|----|--|-----|-----------|
| 37 | Mid- to long-term function and implant survival of ACL reconstruction and medial Oxford UKR. <i>Knee</i> , 2019, 26, 897-904. | 1.6 | 11 |
| 38 | Instruments to reduce the risk of tibial fracture following cementless unicompartmental knee replacement. <i>Knee</i> , 2018, 25, 988-996. | 1.6 | 10 |
| 39 | Intraosseous pressure during loading and with vascular occlusion in an animal model. <i>Bone and Joint Research</i> , 2018, 7, 511-516. | 3.6 | 10 |
| 40 | A radiographic analysis of alignment in 966 lower extremities with knee pain and its association with osteoarthritis in Indian population. <i>Journal of Orthopaedics</i> , 2020, 20, 207-212. | 1.3 | 10 |
| 41 | Follow-up guidance for metal-on-metal hip replacement patients should be updated. <i>International Orthopaedics</i> , 2015, 39, 609-610. | 1.9 | 9 |
| 42 | Long-term <i>in vivo</i> wear of different bearing types used for the Oxford Unicompartmental Knee Replacement. <i>Bone and Joint Research</i> , 2019, 8, 535-543. | 3.6 | 9 |
| 43 | Low polyethylene creep and wear following mobile-bearing unicompartmental knee replacement. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2021, 29, 3433-3442. | 4.2 | 9 |
| 44 | CAT & MAUS: A novel system for true dynamic motion measurement of underlying bony structures with compensation for soft tissue movement. <i>Journal of Biomechanics</i> , 2017, 62, 156-164. | 2.1 | 7 |
| 45 | Lifetime revision risk for medial unicompartmental knee replacement is lower than expected. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2020, 28, 3935-3941. | 4.2 | 7 |
| 46 | The clinical outcomes of cementless unicompartmental knee replacement in patients with reduced bone mineral density. <i>Journal of Orthopaedic Surgery and Research</i> , 2020, 15, 35. | 2.3 | 7 |
| 47 | The effect of age on the outcomes of cementless mobile bearing unicompartmental knee replacements. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2022, 30, 928-938. | 4.2 | 7 |
| 48 | Systematic review and meta-analysis of bearing dislocation in lateral meniscal bearing unicompartmental knee replacement: Domed versus flat tibial surface. <i>Knee</i> , 2021, 28, 214-228. | 1.6 | 6 |
| 49 | Improved radiograph measurement inter-observer reliability by use of statistical shape models. <i>European Journal of Radiology</i> , 2012, 81, 2585-2591. | 2.6 | 5 |
| 50 | Measurement of in-vivo patella kinematics using motion analysis and ultrasound (MAUS). , 2013, , . | | 5 |
| 51 | The effect of body mass index on the outcomes of cementless medial mobile-bearing unicompartmental knee replacements. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2023, 31, 608-618. | 4.2 | 5 |
| 52 | Comparison of five-year clinical outcomes of 524 cemented and cementless medial unicompartmental knee replacements. <i>Knee</i> , 2022, 34, 89-97. | 1.6 | 5 |
| 53 | Greater trochanter tracking in ultrasound imaging during gait. , 2015, , . | | 4 |
| 54 | Posterior Bearing Overhang Following Medial and Lateral Mobile Bearing Unicompartmental Knee Replacements. <i>Journal of Orthopaedic Research</i> , 2019, 37, 1938-1945. | 2.3 | 4 |

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|----|---|-----|-----------|
| 55 | Candidacy for medial unicompartmental knee replacement declines with age. Orthopaedics and Traumatology: Surgery and Research, 2020, 106, 443-447. | 2.0 | 4 |
| 56 | Globally Optimal Registration for Describing Joint Kinematics. Procedia Computer Science, 2016, 90, 188-193. | 2.0 | 2 |
| 57 | An open-source tool for the validation of finite element models using three-dimensional full-field measurements. Medical Engineering and Physics, 2020, 77, 125-129. | 1.7 | 2 |
| 58 | (ii) The role of imaging in follow-up of newly introduced implants. Orthopaedics and Trauma, 2012, 26, 237-241. | 0.4 | 1 |
| 59 | Asymmetrical hip loading correlates with metal ion levels in patients with metal-on-metal hip resurfacing during sit-to-stand. HIP International, 2014, 24, 20-26. | 1.7 | 1 |
| 60 | Early and Late Mechanical Stability of the Cementless Bone-Implant Interface in Total Joint Arthroplasty. , 2014, , 13-26. | | 1 |
| 61 | Response to review article published titled "Total ankle arthroplasty versus ankle arthrodesis - a comparison of outcomes over the last decade"™. Journal of Orthopaedic Surgery and Research, 2019, 14, 142. | 2.3 | 1 |
| 62 | Acceptable outcomes with unicompartmental knee replacement and PCL deficiency are achievable: a case series of nine patients. Knee Surgery, Sports Traumatology, Arthroscopy, 2021, 29, 3272-3278. | 4.2 | 1 |
| 63 | The Oxford Domed Lateral Unicompartmental Knee Replacement implant: Increasing wall height reduces the risk of bearing dislocation. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2022, 236, 349-355. | 1.8 | 1 |
| 64 | Application of a robotics path planning algorithm to assess the risk of mobile bearing dislocation in lateral unicompartmental knee replacement. Scientific Reports, 2022, 12, 2068. | 3.3 | 1 |
| 65 | Pilot study to assess a simple accelerometric method to measure heel strike transients. Osteoarthritis and Cartilage, 2012, 20, S103. | 1.3 | 0 |
| 66 | O 059 - Muscle length in flatfeet and neutral feet using a new multi-segment, musculoskeletal foot model. Gait and Posture, 2018, 65, 121-122. | 1.4 | 0 |