

Sandro F Fucentese

List of Publications by Year in descending order

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Version: 2024-02-01

85
papers

2,712
citations

201674

27
h-index

197818

49
g-index

88
all docs

88
docs citations

88
times ranked

2136
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | The tibial tuberosity-trochlear groove distance; a comparative study between CT and MRI scanning. <i>Knee</i> , 2006, 13, 26-31. | 1.6 | 453 |
| 2 | Trochleoplasty for patellar instability due to trochlear dysplasia. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2005, 76, 693-698. | 3.3 | 172 |
| 3 | The patella morphology in trochlear dysplasia - A comparative MRI study. <i>Knee</i> , 2006, 13, 145-150. | 1.6 | 144 |
| 4 | Classification of trochlear dysplasia as predictor of clinical outcome after trochleoplasty. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2011, 19, 1655-1661. | 4.2 | 88 |
| 5 | Total shoulder arthroplasty with an uncemented soft-metal-backed glenoid component. <i>Journal of Shoulder and Elbow Surgery</i> , 2010, 19, 624-631. | 2.6 | 76 |
| 6 | End-stage extension of the knee and its influence on tibial tuberosity-trochlear groove distance (TTTG) in asymptomatic volunteers. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2014, 22, 214-218. | 4.2 | 76 |
| 7 | Macromechanics and polycaprolactone fiber organization drive macrophage polarization and regulate inflammatory activation of tendon in vitro and in vivo. <i>Biomaterials</i> , 2020, 249, 120034. | 11.4 | 71 |
| 8 | Complications after epiphyseal reconstruction of the anterior cruciate ligament in prepubescent children. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2016, 24, 2736-2740. | 4.2 | 70 |
| 9 | Evaluation of a virtual-reality-based simulator using passive haptic feedback for knee arthroscopy. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2015, 23, 1077-1085. | 4.2 | 66 |
| 10 | Imaging of Individual Anatomical Risk Factors for Patellar Instability. <i>Seminars in Musculoskeletal Radiology</i> , 2016, 20, 065-073. | 0.7 | 65 |
| 11 | Complex Osteotomies of Tibial Plateau Malunions Using Computer-Assisted Planning and Patient-Specific Surgical Guides. <i>Journal of Orthopaedic Trauma</i> , 2015, 29, e270-e276. | 1.4 | 54 |
| 12 | Shear-stress sensing by PIEZO1 regulates tendon stiffness in rodents and influences jumping performance in humans. <i>Nature Biomedical Engineering</i> , 2021, 5, 1457-1471. | 22.5 | 54 |
| 13 | Conventional Radiographs and Magnetic Resonance Imaging for the Analysis of Trochlear Dysplasia: The Influence of Selected Levels on Magnetic Resonance Imaging. <i>American Journal of Sports Medicine</i> , 2017, 45, 1059-1065. | 4.2 | 53 |
| 14 | Kinematic Evaluation of the GMK Sphere Implant During Gait Activities: A Dynamic Videofluoroscopy Study. <i>Journal of Orthopaedic Research</i> , 2019, 37, 2337-2347. | 2.3 | 53 |
| 15 | Efficacy of standardized training on a virtual reality simulator to advance knee and shoulder arthroscopic motor skills. <i>BMC Musculoskeletal Disorders</i> , 2018, 19, 150. | 1.9 | 50 |
| 16 | Total Knee Arthroplasty MRI Featuring Slice-Encoding for Metal Artifact Correction: Reduction of Artifacts for STIR and Proton Density-Weighted Sequences. <i>American Journal of Roentgenology</i> , 2013, 201, 1315-1324. | 2.2 | 48 |
| 17 | Upright CT of the knee: the effect of weight-bearing on joint alignment. <i>European Radiology</i> , 2015, 25, 3398-3404. | 4.5 | 48 |
| 18 | Accuracy of 3D-planned patient specific instrumentation in high tibial open wedge valgisation osteotomy. <i>Journal of Experimental Orthopaedics</i> , 2020, 7, 7. | 1.8 | 47 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Deep convolutional neural network-based detection of meniscus tears: comparison with radiologists and surgery as standard of reference. <i>Skeletal Radiology</i> , 2020, 49, 1207-1217. | 2.0 | 43 |
| 20 | Deep Convolutional Neural Network-Based Diagnosis of Anterior Cruciate Ligament Tears. <i>Investigative Radiology</i> , 2020, 55, 499-506. | 6.2 | 41 |
| 21 | Haemophilic knee arthropathy: long-term outcome after total knee replacement. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2012, 20, 2465-2470. | 4.2 | 40 |
| 22 | Performance of medical students on a virtual reality simulator for knee arthroscopy: an analysis of learning curves and predictors of performance. <i>BMC Surgery</i> , 2016, 16, 14. | 1.3 | 40 |
| 23 | Introducing the Lateral Femoral Condyle Index as a Risk Factor for Anterior Cruciate Ligament Injury. <i>American Journal of Sports Medicine</i> , 2019, 47, 2420-2426. | 4.2 | 39 |
| 24 | <i>Corynebacterium</i> Species Rarely Cause Orthopedic Infections. <i>Journal of Clinical Microbiology</i> , 2018, 56, . | 3.9 | 38 |
| 25 | Pain-Associated Transcriptome Changes in Synovium of Knee Osteoarthritis Patients. <i>Genes</i> , 2018, 9, 338. | 2.4 | 37 |
| 26 | The Relationship of Femoral Tunnel Positioning in Medial Patellofemoral Ligament Reconstruction on Clinical Outcome and Postoperative Complications. <i>Arthroscopy - Journal of Arthroscopic and Related Surgery</i> , 2018, 34, 2410-2416. | 2.7 | 33 |
| 27 | Lateral unicompartmental knee replacement: a systematic review of reasons for failure. <i>International Orthopaedics</i> , 2018, 42, 1827-1833. | 1.9 | 32 |
| 28 | Long-term results of total knee arthroplasty in haemophilic patients: an 18-year follow-up. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2017, 25, 3431-3438. | 4.2 | 29 |
| 29 | Bone autografting in medial open wedge high tibial osteotomy results in improved osseous gap healing on computed tomography, but no functional advantage: a prospective, randomised, controlled trial. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2019, 27, 2951-2957. | 4.2 | 27 |
| 30 | Is the contralateral tibia a reliable template for reconstruction: a three-dimensional anatomy cadaveric study. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2018, 26, 2324-2331. | 4.2 | 26 |
| 31 | MRI Predictors of Posterolateral Corner Instability: A Decision Tree Analysis of Patients with Acute Anterior Cruciate Ligament Tear. <i>Radiology</i> , 2018, 289, 170-180. | 7.3 | 25 |
| 32 | Accuracy of three dimensional-planned patient-specific instrumentation in femoral and tibial rotational osteotomy for patellofemoral instability. <i>International Orthopaedics</i> , 2020, 44, 1711-1717. | 1.9 | 25 |
| 33 | Injury risks among elite competitive alpine skiers are underestimated if not registered prospectively, over the entire season and regardless of whether requiring medical attention. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2021, 29, 1635-1643. | 4.2 | 24 |
| 34 | Upright weight-bearing CT of the knee during flexion: changes of the patellofemoral and tibiofemoral articulations between 0° and 120°. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2017, 25, 853-862. | 4.2 | 23 |
| 35 | Malpositioning of patient-specific instruments within the possible degrees of freedom in high-tibial osteotomy has no considerable influence on mechanical leg axis correction. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2020, 28, 1356-1364. | 4.2 | 23 |
| 36 | Preoperative exercise in patients undergoing total knee arthroplasty: a pilot randomized controlled trial. <i>Archives of Physiotherapy</i> , 2020, 10, 13. | 1.8 | 23 |

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|----|--|-----|-----------|
| 37 | The tibial tubercle trochlear groove distance in patients with trochlear dysplasia: the influence of the proximally flat trochlea. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2016, 24, 2741-2747. | 4.2 | 22 |
| 38 | Tibio-femoral kinematics of the healthy knee joint throughout complete cycles of gait activities. <i>Journal of Biomechanics</i> , 2020, 110, 109915. | 2.1 | 22 |
| 39 | The impact of limb loading and the measurement modality (2D versus 3D) on the measurement of the limb loading dependent lower extremity parameters. <i>BMC Musculoskeletal Disorders</i> , 2020, 21, 418. | 1.9 | 22 |
| 40 | Unicompartmental knee arthroplasty MRI: impact of slice-encoding for metal artefact correction MRI on image quality, findings and therapy decision. <i>European Radiology</i> , 2015, 25, 2184-2193. | 4.5 | 21 |
| 41 | Postoperative alignment of TKA in patients with severe preoperative varus or valgus deformity: is there a difference between surgical techniques?. <i>BMC Musculoskeletal Disorders</i> , 2017, 18, 272. | 1.9 | 20 |
| 42 | Large metaphyseal volume hemiprotheses for complex fractures of the proximal humerus. <i>Journal of Shoulder and Elbow Surgery</i> , 2014, 23, 427-433. | 2.6 | 19 |
| 43 | Total knee arthroplasty in patients with a history of illicit intravenous drug abuse. <i>International Orthopaedics</i> , 2018, 42, 101-107. | 1.9 | 19 |
| 44 | Joint-preserving tumour resection around the knee with allograft reconstruction using three-dimensional preoperative planning and patient-specific instruments. <i>Knee</i> , 2019, 26, 787-793. | 1.6 | 18 |
| 45 | Rotation or flexion alters mechanical leg axis measurements comparably in patients with different coronal alignment. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2020, 28, 3128-3134. | 4.2 | 18 |
| 46 | Femoral insertion site in medial patellofemoral ligament reconstruction. <i>Knee</i> , 2016, 23, 456-459. | 1.6 | 16 |
| 47 | Assessment of the Isometry of the Anterolateral Ligament in a 3-Dimensional Weight-Bearing Computed Tomography Simulation. <i>Arthroscopy - Journal of Arthroscopic and Related Surgery</i> , 2017, 33, 1016-1023. | 2.7 | 16 |
| 48 | Combined Correction of Tibial Torsion and Tibial Tuberosity-Trochlear Groove Distance by Supratuberositary Torsional Osteotomy of the Tibia. <i>American Journal of Sports Medicine</i> , 2020, 48, 2260-2267. | 4.2 | 16 |
| 49 | Three-dimensional meniscus allograft sizing—a study of 280 healthy menisci. <i>Journal of Orthopaedic Surgery and Research</i> , 2020, 15, 74. | 2.3 | 16 |
| 50 | 3D-printed anatomic models of the knee for evaluation of patellofemoral dysplasia in comparison to standard radiographs and computed tomography. <i>European Journal of Radiology</i> , 2020, 127, 109011. | 2.6 | 15 |
| 51 | A novel augmented reality-based surgical guidance system for total knee arthroplasty. <i>Archives of Orthopaedic and Trauma Surgery</i> , 2021, 141, 2227-2233. | 2.4 | 14 |
| 52 | The effect of native knee rotation on the tibial-tubercle-trochlear-groove distance in patients with patellar instability: an analysis of MRI and CT measurements. <i>Archives of Orthopaedic and Trauma Surgery</i> , 2022, 142, 3149-3155. | 2.4 | 13 |
| 53 | Patellofemoral instability in trochleodysplastic knee joints and the quantitative influence of simulated trochleoplasty – A finite element simulation. <i>Clinical Biomechanics</i> , 2021, 81, 105216. | 1.2 | 12 |
| 54 | Treatment options for patellofemoral instability in sports traumatology. <i>Orthopedic Reviews</i> , 2013, 5, e23. | 1.3 | 11 |

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|----|--|-----|-----------|
| 55 | Francisella tularensis Periprosthetic Joint Infections Diagnosed with Growth in Cultures. Journal of Clinical Microbiology, 2019, 57, . | 3.9 | 10 |
| 56 | Ultra-high resolution 3D MRI for chondrocalcinosis detection in the knee—a prospective diagnostic accuracy study comparing 7-tesla and 3-tesla MRI with CT. European Radiology, 2021, 31, 9436-9445. | 4.5 | 10 |
| 57 | Contralateral MRI scan can be used reliably for three-dimensional meniscus sizing — Retrospective analysis of 160 healthy menisci. Knee, 2019, 26, 954-961. | 1.6 | 9 |
| 58 | The impact of mal-angulated femoral rotational osteotomies on mechanical leg axis: a computer simulation model. BMC Musculoskeletal Disorders, 2020, 21, 50. | 1.9 | 9 |
| 59 | Inhibition of ERK 1/2 kinases prevents tendon matrix breakdown. Scientific Reports, 2021, 11, 6838. | 3.3 | 9 |
| 60 | A real 3D measurement technique for the tibial slope: differentiation between different articular surfaces and comparison to radiographic slope measurement. BMC Musculoskeletal Disorders, 2020, 21, 635. | 1.9 | 8 |
| 61 | Three-dimensional preoperative planning in the weight-bearing state: validation and clinical evaluation. Insights Into Imaging, 2021, 12, 44. | 3.4 | 8 |
| 62 | Influence of femoral tunnel exit on the 3D graft bending angle in anterior cruciate ligament reconstruction. Journal of Experimental Orthopaedics, 2021, 8, 44. | 1.8 | 7 |
| 63 | Autologous Matrix-Induced Chondrogenesis (AMIC) for Isolated Retropatellar Cartilage Lesions: Outcome after a Follow-Up of Minimum 2 Years. Cartilage, 2021, 13, 1280S-1290S. | 2.7 | 7 |
| 64 | Novel Protocol for Knee Mobilization Under Femoral and Sciatic Nerve Blocks for Postoperative Knee Stiffness. Orthopedics, 2016, 39, e708-14. | 1.1 | 7 |
| 65 | Factors affecting outcome in the treatment of streptococcal periprosthetic joint infections: results from a single-centre retrospective cohort study. International Orthopaedics, 2021, 45, 57-63. | 1.9 | 6 |
| 66 | Influence of medial open wedge high tibial osteotomy on tibial tuberosity—trochlear groove distance. Knee Surgery, Sports Traumatology, Arthroscopy, 2023, 31, 1500-1506. | 4.2 | 6 |
| 67 | Tibial tunnel enlargement is affected by the tunnel diameter-screw ratio in tibial hybrid fixation for hamstring ACL reconstruction. Archives of Orthopaedic and Trauma Surgery, 2023, 143, 1923-1930. | 2.4 | 6 |
| 68 | Tibial internal rotation in combined anterior cruciate ligament and high-grade anterolateral ligament injury and its influence on ACL length. BMC Musculoskeletal Disorders, 2022, 23, 262. | 1.9 | 5 |
| 69 | The winking sign is an indicator for increased femorotibial rotation in patients with recurrent patellar instability. Knee Surgery, Sports Traumatology, Arthroscopy, 2022, 30, 3651-3658. | 4.2 | 5 |
| 70 | No relevant mechanical leg axis deviation in the frontal and sagittal planes is to be expected after subtrochanteric or supracondylar femoral rotational or derotational osteotomy. Knee Surgery, Sports Traumatology, Arthroscopy, 2023, 31, 414-423. | 4.2 | 4 |
| 71 | Tibial torsion analysis in computed tomography: development and validation of a real 3D measurement technique. Insights Into Imaging, 2021, 12, 18. | 3.4 | 3 |
| 72 | Accuracy of joint line restoration based on three-dimensional registration of the contralateral tibial tuberosity and the fibular tip. Journal of Experimental Orthopaedics, 2021, 8, 84. | 1.8 | 3 |

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|----|---|-----|-----------|
| 73 | Meniscus sizing using three-dimensional models of the ipsilateral tibia plateau based on CT scans – an experimental study of a new sizing approach. <i>Journal of Experimental Orthopaedics</i> , 2020, 7, 36. | 1.8 | 3 |
| 74 | Mal-angulation of femoral rotational osteotomies causes more postoperative sagittal mechanical leg axis deviation in supracondylar than in subtrochanteric procedures. <i>Journal of Experimental Orthopaedics</i> , 2020, 7, 46. | 1.8 | 3 |
| 75 | Biomechanical comparison of the use of different surgical suture techniques for continuous loop tendon grafts preparation. <i>Scientific Reports</i> , 2020, 10, 538. | 3.3 | 2 |
| 76 | The quantitative influence of current treatment options on patellofemoral stability in patients with trochlear dysplasia and symptomatic patellofemoral instability - a finite element simulation. <i>Clinical Biomechanics</i> , 2021, 84, 105340. | 1.2 | 2 |
| 77 | Osteochondral Allograft Reconstruction of the Tibia Plateau for Posttraumatic Defects – A Novel Computer-Assisted Method Using 3D Preoperative Planning and Patient-Specific Instrumentation. <i>The Surgery Journal</i> , 2021, 07, e289-e296. | 0.7 | 2 |
| 78 | Intra-osseous local anaesthetic patellar pain catheter suppresses osteoarthritic patello-femoral pain. <i>Knee</i> , 2017, 24, 882-889. | 1.6 | 1 |
| 79 | Risk factor analysis for above-knee amputation in patients with periprosthetic joint infection of the knee: a case-control study. <i>BMC Musculoskeletal Disorders</i> , 2021, 22, 884. | 1.9 | 1 |
| 80 | Restoration of Native Leg Length After Opening-Wedge High Tibial Osteotomy: An Intraindividual Analysis. <i>Orthopaedic Journal of Sports Medicine</i> , 2022, 10, 232596712110637. | 1.7 | 1 |
| 81 | Decrease of tibial tuberosity trochlear groove distance following mechanically aligned total knee arthroplasty. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2023, 31, 1162-1167. | 4.2 | 1 |
| 82 | Elongation Patterns of Posterolateral Corner Reconstruction Techniques: Results Using 3-Dimensional Weightbearing Computed Tomography Simulation. <i>Orthopaedic Journal of Sports Medicine</i> , 2022, 10, 232596712210902. | 1.7 | 1 |
| 83 | Elongation Patterns of the Superficial Medial Collateral Ligament and the Posterior Oblique Ligament: A 3-Dimensional, Weightbearing Computed Tomography Simulation. <i>Orthopaedic Journal of Sports Medicine</i> , 2022, 10, 232596712210912. | 1.7 | 1 |
| 84 | Trochleoplasty Techniques: Complications. , 2020, , 349-352. | | 0 |
| 85 | Effectiveness of proximal tibial tubercle transfer in patients with patella baja after total knee arthroplasty. <i>Journal of Experimental Orthopaedics</i> , 2022, 9, 16. | 1.8 | 0 |