

Thomas Tischer

List of Publications by Year in descending order

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Version: 2024-02-01

97
papers

3,458
citations

136940

32
h-index

155644

55
g-index

124
all docs

124
docs citations

124
times ranked

3631
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Characterization of osteosarcoma cell lines MG-63, Saos-2 and U-2 OS in comparison to human osteoblasts. <i>Anticancer Research</i> , 2004, 24, 3743-8. | 1.1 | 271 |
| 2 | Incidence of Associated Injuries with Acute Acromioclavicular Joint Dislocations Types III through V. <i>American Journal of Sports Medicine</i> , 2009, 37, 136-139. | 4.2 | 172 |
| 3 | Arthroscopic resection of the acromioclavicular joint. <i>American Journal of Sports Medicine</i> , 1993, 21, 71-77. | 4.2 | 125 |
| 4 | Fluorescence-Guided Bone Resection in Bisphosphonate-Related Osteonecrosis of the Jaws: First Clinical Results of a Prospective Pilot Study. <i>Journal of Oral and Maxillofacial Surgery</i> , 2011, 69, 84-91. | 1.2 | 124 |
| 5 | Bisphosphonate-Related Osteonecrosis of the Jaw: Is pH the Missing Part in the Pathogenesis Puzzle?. <i>Journal of Oral and Maxillofacial Surgery</i> , 2010, 68, 1158-1161. | 1.2 | 122 |
| 6 | Polychrome labeling of bone with seven different fluorochromes: Enhancing fluorochrome discrimination by spectral image analysis. <i>Bone</i> , 2005, 37, 441-445. | 2.9 | 110 |
| 7 | Arthroscopic Repair of Anterior-Inferior Glenohumeral Instability Using a Portal at the 5:30-oâ€™Clock Position. <i>American Journal of Sports Medicine</i> , 2010, 38, 1795-1803. | 4.2 | 105 |
| 8 | Arthroscopic reconstruction of the acromioclavicular joint disruption: surgical technique and preliminary results. <i>Archives of Orthopaedic and Trauma Surgery</i> , 2006, 126, 575-581. | 2.4 | 104 |
| 9 | Machine learning methods in sport injury prediction and prevention: a systematic review. <i>Journal of Experimental Orthopaedics</i> , 2021, 8, 27. | 1.8 | 84 |
| 10 | Fluorescence-Guided Bone Resection in Bisphosphonate-Associated Osteonecrosis of the Jaws. <i>Journal of Oral and Maxillofacial Surgery</i> , 2009, 67, 471-476. | 1.2 | 83 |
| 11 | Tissue engineering of the anterior cruciate ligament: a new method using acellularized tendon allografts and autologous fibroblasts. <i>Archives of Orthopaedic and Trauma Surgery</i> , 2007, 127, 735-741. | 2.4 | 75 |
| 12 | The role of bone void fillers in medial opening wedge high tibial osteotomy: a systematic review. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2016, 24, 3584-3598. | 4.2 | 75 |
| 13 | Bisphosphonate related osteonecrosis of the jaw: A minipig large animal model. <i>Bone</i> , 2012, 51, 592-599. | 2.9 | 73 |
| 14 | Characterization of eight different tetracyclines: advances in fluorescence bone labeling. <i>Journal of Anatomy</i> , 2010, 217, 76-82. | 1.5 | 69 |
| 15 | Detailed pathological changes of human lumbar facet joints L1â€™L5 in elderly individuals. <i>European Spine Journal</i> , 2006, 15, 308-315. | 2.2 | 68 |
| 16 | Tetracycline Bone Fluorescence: A Valuable Marker for Osteonecrosis Characterization and Therapy. <i>Journal of Oral and Maxillofacial Surgery</i> , 2010, 68, 125-129. | 1.2 | 66 |
| 17 | The Impact of Osseous Malalignment and Realignment Procedures in Knee Ligament Surgery: A Systematic Review of the Clinical Evidence. <i>Orthopaedic Journal of Sports Medicine</i> , 2017, 5, 232596711769728. | 1.7 | 64 |
| 18 | Do we need synthetic osteotomy augmentation materials for opening-wedge high tibial osteotomy. <i>Biomaterials</i> , 2008, 29, 3497-3502. | 11.4 | 62 |

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|----|--|------|-----------|
| 19 | Generation and characterization of a human acellular meniscus scaffold for tissue engineering. <i>Journal of Biomedical Materials Research - Part A</i> , 2009, 91A, 567-574. | 4.0 | 62 |
| 20 | Influence of Sex on the Outcome of Autologous Chondrocyte Implantation in Chondral Defects of the Knee. <i>American Journal of Sports Medicine</i> , 2013, 41, 1541-1548. | 4.2 | 60 |
| 21 | Machine learning and conventional statistics: making sense of the differences. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2022, 30, 753-757. | 4.2 | 56 |
| 22 | Arthroscopic Anatomy, Variants, and Pathologic Findings in Shoulder Instability. <i>Arthroscopy - Journal of Arthroscopic and Related Surgery</i> , 2011, 27, 1434-1443. | 2.7 | 55 |
| 23 | Biomechanical comparison of menisci from different species and artificial constructs. <i>BMC Musculoskeletal Disorders</i> , 2013, 14, 324. | 1.9 | 51 |
| 24 | A Fibrin Glue Composition as Carrier for Nucleic Acid Vectors. <i>Pharmaceutical Research</i> , 2008, 25, 2946-2962. | 3.5 | 49 |
| 25 | Stem cells and bFGF in tendon healing: Effects of lentiviral gene transfer and long-term follow-up in a rat Achilles tendon defect model. <i>BMC Musculoskeletal Disorders</i> , 2016, 17, 148. | 1.9 | 49 |
| 26 | Platelet-Rich Plasma Powder: A New Preparation Method for the Standardization of Growth Factor Concentrations. <i>American Journal of Sports Medicine</i> , 2017, 45, 954-960. | 4.2 | 46 |
| 27 | Arthroscopic Suture Anchor Fixation of Bony Bankart Lesions: Clinical Outcome, Magnetic Resonance Imaging Results, and Return to Sports. <i>Arthroscopy - Journal of Arthroscopic and Related Surgery</i> , 2015, 31, 1472-1481. | 2.7 | 44 |
| 28 | The influence of the stable expression of BMP2 in fibrin clots on the remodelling and repair of osteochondral defects. <i>Biomaterials</i> , 2009, 30, 2385-2392. | 11.4 | 43 |
| 29 | Platelet-rich plasma injections induce disease-modifying effects in the treatment of osteoarthritis in animal models. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2021, 29, 4100-4121. | 4.2 | 38 |
| 30 | Artificial intelligence and machine learning: an introduction for orthopaedic surgeons. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2022, 30, 361-364. | 4.2 | 35 |
| 31 | Dose-related effects of extracorporeal shock waves on rabbit quadriceps tendon integrity. <i>Archives of Orthopaedic and Trauma Surgery</i> , 2002, 122, 436-441. | 2.4 | 33 |
| 32 | Dose-Dependent New Bone Formation by Extracorporeal Shock Wave Application on the Intact Femur of Rabbits. <i>European Surgical Research</i> , 2008, 41, 44-53. | 1.3 | 33 |
| 33 | Tissue Engineering of the Anterior Cruciate Ligament – Sodium Dodecyl Sulfate-Acellularized and Revitalized Tendons Are Inferior to Native Tendons. <i>Tissue Engineering - Part A</i> , 2010, 16, 1031-1040. | 3.1 | 31 |
| 34 | TGF- β 1 and IGF-1 influence the re-differentiation capacity of human chondrocytes in 3D pellet cultures in relation to different oxygen concentrations. <i>International Journal of Molecular Medicine</i> , 2012, 30, 666-672. | 4.0 | 29 |
| 35 | Impact of the patella height on the strain pattern of the medial patellofemoral ligament after reconstruction: a computer model-based study. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2017, 25, 3123-3133. | 4.2 | 29 |
| 36 | Olympic competition climbing: the beginning of a new era – a narrative review. <i>British Journal of Sports Medicine</i> , 2021, 55, 857-864. | 6.7 | 29 |

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|----|--|------|-----------|
| 37 | New advances in fluorochrome sequential labelling of teeth using seven different fluorochromes and spectral image analysis. <i>Journal of Anatomy</i> , 2007, 210, 117-121. | 1.5 | 28 |
| 38 | Physicobiochemical Synergism Through Gene Therapy and Functional Tissue Engineering for <i>In Vitro</i> Chondrogenesis. <i>Tissue Engineering - Part A</i> , 2009, 15, 2513-2524. | 3.1 | 28 |
| 39 | Re-Differentiation Capacity of Human Chondrocytes <i>In Vitro</i> Following Electrical Stimulation with Capacitively Coupled Fields. <i>Journal of Clinical Medicine</i> , 2019, 8, 1771. | 2.4 | 27 |
| 40 | Platelet concentrate vs. saline in a rat patellar tendon healing model. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2011, 19, 495-502. | 4.2 | 26 |
| 41 | <i>In vivo</i> tetracycline labeling of bone: an intraoperative aid in the surgical therapy of osteoradionecrosis of the mandible. <i>Oral Surgery Oral Medicine Oral Pathology Oral Radiology and Endodontics</i> , 2006, 102, e10-e13. | 1.4 | 25 |
| 42 | Is gender influencing the biomechanical results after autologous chondrocyte implantation?. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2014, 22, 72-79. | 4.2 | 25 |
| 43 | Dose-Dependent Effects of Platelet-Rich Plasma Powder on Chondrocytes <i>In Vitro</i> . <i>American Journal of Sports Medicine</i> , 2020, 48, 1727-1734. | 4.2 | 25 |
| 44 | Mechanisms of Acute Knee Injuries in Bouldering and Rock Climbing Athletes. <i>American Journal of Sports Medicine</i> , 2020, 48, 730-738. | 4.2 | 24 |
| 45 | The dependence of autologous chondrocyte transplantation on varying cellular passage, yield and culture duration. <i>Biomaterials</i> , 2011, 32, 5810-5818. | 11.4 | 23 |
| 46 | Large variability exists in the management of posterolateral corner injuries in the global surgical community. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2020, 28, 2116-2123. | 4.2 | 23 |
| 47 | A novel nonviral gene delivery tool of BMP-2 for the reconstitution of critical-size bone defects in rats. <i>Journal of Biomedical Materials Research - Part A</i> , 2016, 104, 2441-2455. | 4.0 | 22 |
| 48 | Evaluation of Rock Climbing Related Injuries in Older Athletes. <i>Wilderness and Environmental Medicine</i> , 2019, 30, 362-368. | 0.9 | 22 |
| 49 | Patient-specific factors influencing the traction forces in hip arthroscopy. <i>Archives of Orthopaedic and Trauma Surgery</i> , 2017, 137, 81-87. | 2.4 | 21 |
| 50 | The reverse shoulder prosthesis for primary and secondary treatment of proximal humeral fractures: a case report. <i>Archives of Orthopaedic and Trauma Surgery</i> , 2008, 128, 973-978. | 2.4 | 20 |
| 51 | Positive impact of IGF-1-coupled nanoparticles on the differentiation potential of human chondrocytes cultured on collagen scaffolds. <i>International Journal of Nanomedicine</i> , 2015, 10, 1131. | 6.7 | 20 |
| 52 | A biomechanical, micro-computertomographic and histological analysis of the influence of diclofenac and prednisolone on fracture healing <i>in vivo</i> . <i>BMC Musculoskeletal Disorders</i> , 2016, 17, 383. | 1.9 | 20 |
| 53 | Platelet-rich plasma (PRP) as therapy for cartilage, tendon and muscle damage – German working group position statement. <i>Journal of Experimental Orthopaedics</i> , 2020, 7, 64. | 1.8 | 20 |
| 54 | Whole bone testing in small animals: systematic characterization of the mechanical properties of different rodent bones available for rat fracture models. <i>European Journal of Medical Research</i> , 2018, 23, 8. | 2.2 | 17 |

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|----|---|------|-----------|
| 55 | Pet Ownership and Nonownership among Elderly in Arizona. <i>Anthrozoos</i> , 1988, 2, 125-132. | 1.4 | 16 |
| 56 | Empfehlungen der AG Klinische Geweberegeneration zur Behandlung von Knorpelschäden am Kniegelenk. <i>Zeitschrift Fur Orthopadie Und Unfallchirurgie</i> , 2023, 161, 57-64. | 0.7 | 16 |
| 57 | Efficient and stable gene transfer of growth factors into chondrogenic cells and primary articular chondrocytes using a VSV.G pseudotyped retroviral vector. <i>Biomaterials</i> , 2008, 29, 1242-1249. | 11.4 | 15 |
| 58 | Comparative analysis of bone regeneration behavior using recombinant human BMP-2 versus plasmid DNA of BMP-2. <i>Journal of Biomedical Materials Research - Part A</i> , 2019, 107, 163-173. | 4.0 | 14 |
| 59 | Cost Analysis in Shoulder Surgery: A Systematic Review. <i>Orthopaedic Journal of Sports Medicine</i> , 2020, 8, 232596712091712. | 1.7 | 13 |
| 60 | Does Anticoagulant Medication Alter Fracture-Healing? A Morphological and Biomechanical Evaluation of the Possible Effects of Rivaroxaban and Enoxaparin Using a Rat Closed Fracture Model. <i>PLoS ONE</i> , 2016, 11, e0159669. | 2.5 | 12 |
| 61 | Improving results in rat fracture models: enhancing the efficacy of biomechanical testing by a modification of the experimental setup. <i>BMC Musculoskeletal Disorders</i> , 2018, 19, 243. | 1.9 | 11 |
| 62 | Influence of Sutures on Cartilage Integrity: Do Meniscus Sutures Harm Cartilage? An Experimental Animal Study. <i>Arthroscopy - Journal of Arthroscopic and Related Surgery</i> , 2019, 35, 1509-1516. | 2.7 | 11 |
| 63 | Intrarater Reliability of Muscle Strength and Hamstring to Quadriceps Strength Imbalance Ratios During Concentric, Isometric, and Eccentric Maximal Voluntary Contractions Using the Isoforce Dynamometer. <i>Clinical Journal of Sport Medicine</i> , 2019, 29, 69-77. | 1.8 | 10 |
| 64 | Quantifiable Contrast-Enhanced Ultrasound Explores the Role of Protection, Rest, Ice (Cryotherapy), Compression and Elevation (PRICE) Therapy on Microvascular Blood Flow. <i>Ultrasound in Medicine and Biology</i> , 2021, 47, 1269-1278. | 1.5 | 10 |
| 65 | Time to focus on ACL revision: ESSKA 2022 consensus. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2023, 31, 4637-4638. | 4.2 | 10 |
| 66 | Local cooling reduces regional bone blood flow. <i>Journal of Orthopaedic Research</i> , 2013, 31, 1820-1827. | 2.3 | 9 |
| 67 | Impact of compression stockings on leg swelling after arthroscopy – a prospective randomised pilot study. <i>BMC Musculoskeletal Disorders</i> , 2019, 20, 161. | 1.9 | 9 |
| 68 | In Vivo Evaluation of Different Collagen Scaffolds in an Achilles Tendon Defect Model. <i>BioMed Research International</i> , 2018, 2018, 1-11. | 1.9 | 8 |
| 69 | Measuring lower limb circumference and volume – introduction of a novel optical 3D volumetric measurement system. <i>Biomedizinische Technik</i> , 2020, 65, 237-241. | 0.8 | 8 |
| 70 | The lack of retropatellar resurfacing at index surgery is significantly associated with failure in patients following patellofemoral inlay arthroplasty: a multi-center study of more than 260 patients. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2022, 30, 1212-1219. | 4.2 | 8 |
| 71 | Fully automated segmentation of callus by micro-CT compared to biomechanics. <i>Journal of Orthopaedic Surgery and Research</i> , 2017, 12, 108. | 2.3 | 7 |
| 72 | All-Arthroscopic Hydrogel-Based Autologous Chondrocyte Transplantation in the Knee Joint: Good Clinical and Magnetic Resonance Imaging Outcome After 24 Months. <i>Arthroscopy - Journal of Arthroscopic and Related Surgery</i> , 2021, 37, 1892-1899.e1. | 2.7 | 7 |

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|----|--|-----|-----------|
| 73 | Compensatory Responses During Slip-Induced Perturbation in Patients With Knee Osteoarthritis Compared With Healthy Older Adults: An Increased Risk of Falls?. <i>Frontiers in Bioengineering and Biotechnology</i> , 0, 10, . | 4.1 | 7 |
| 74 | Repair of cartilage defects with devitalized osteochondral tissue: A pilot animal study. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2019, 107, 2354-2364. | 3.4 | 6 |
| 75 | Doping in Sport Climbing. <i>Current Sports Medicine Reports</i> , 2019, 18, 351-352. | 1.2 | 6 |
| 76 | Epicondylopathia humeri radialis. <i>Zeitschrift Fur Orthopadie Und Unfallchirurgie</i> , 2022, 160, 329-340. | 0.7 | 6 |
| 77 | Biomechanical, Biochemical, and Cell Biological Evaluation of Different Collagen Scaffolds for Tendon Augmentation. <i>BioMed Research International</i> , 2018, 2018, 1-11. | 1.9 | 5 |
| 78 | Sport und Endoprothese. <i>Sports Orthopaedics and Traumatology</i> , 2019, 35, 123-129. | 0.1 | 4 |
| 79 | Letter to the Editor. <i>American Journal of Sports Medicine</i> , 2009, 37, e5-e5. | 4.2 | 3 |
| 80 | Evidence of an autoregulatory mechanism of regional bone blood flow at hypotension. <i>Archives of Orthopaedic and Trauma Surgery</i> , 2013, 133, 1233-1241. | 2.4 | 3 |
| 81 | Results of a tri-national online survey on the current status of sports injury prevention among members of the German-Speaking Orthopaedic Sports Medicine Society (GOTS). <i>Sportverletzung-Sportschaden</i> , 2021, 35, 80-87. | 0.9 | 3 |
| 82 | Subacromial impingement syndrome: association of multiple magnetic resonance imaging parameters with shoulder function and pain. <i>Archives of Orthopaedic and Trauma Surgery</i> , 2023, 143, 237-246. | 2.4 | 3 |
| 83 | Does prevention pay off? Economic aspects of sports injury prevention: a systematic review. <i>British Journal of Sports Medicine</i> , 2021, , bjsports-2021-104241. | 6.7 | 3 |
| 84 | Tissue Engineering of the Anterior Cruciate Ligament and Meniscus Using Acellularized Scaffolds. , 2010, , . | | 2 |
| 85 | Does cefuroxime alter fracture healing <i>in vivo</i> ? A micro-computertomographic, biomechanical, and histomorphometric evaluation using a rat fracture model. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2017, 105, 2282-2291. | 3.4 | 2 |
| 86 | Hyperflexion Knee Injury with Anterior Cruciate Ligament Rupture and Avulsion Fractures of Both Posterior Meniscal Attachments. <i>JBJS Case Connector</i> , 2020, 10, e19.00541-e19.00541. | 0.3 | 2 |
| 87 | Predictors for an unsuccessful conservative treatment of patients with medial patellar plica syndrome. <i>Archives of Orthopaedic and Trauma Surgery</i> , 2021, 141, 93-98. | 2.4 | 2 |
| 88 | Double-Level Osteotomy in Severe Varus Malalignment to Optimize Knee Joint Restoration. <i>Video Journal of Sports Medicine</i> , 2021, 1, 263502542110466. | 0.3 | 2 |
| 89 | Sportmedizinische Aspekte des olympischen Wettkampfkarate. <i>Sports Orthopaedics and Traumatology</i> , 2020, 36, 26-33. | 0.1 | 1 |
| 90 | Subscapularis Tendon Tears – Usefulness of Written MRI Reports for Guiding Patient Referral to Shoulder Specialists. <i>RoFo Fortschritte Auf Dem Gebiet Der Rontgenstrahlen Und Der Bildgebenden Verfahren</i> , 2021, 193, 797-803. | 1.3 | 1 |

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|----|---|-----|-----------|
| 91 | Does the anterolateral ligament protect the anterior cruciate ligament in the most common injury mechanisms? A human knee model study. <i>Knee</i> , 2021, 29, 381-389. | 1.6 | 1 |
| 92 | Comparison of different suture techniques for Achilles tendon repair in rat model using collagen scaffolds. <i>Acta of Bioengineering and Biomechanics</i> , 2018, 20, 73-77. | 0.4 | 1 |
| 93 | Whole bone testing in small animals: Why do our results not reach statistical significance? Impact and reduction of systematic failure. <i>Bone</i> , 2010, 46, S31. | 2.9 | 0 |
| 94 | Dose-Dependent Effects of Platelet-Rich Plasma Powder on Chondrocytes In Vitro: Response. <i>American Journal of Sports Medicine</i> , 2020, 48, NP60-NP61. | 4.2 | 0 |
| 95 | Primärprävention von Sportverletzungen und -schäden. <i>Sports Orthopaedics and Traumatology</i> , 2021, 37, 4-9. | 0.1 | 0 |
| 96 | Matrix-Assisted Bone Marrow Stimulation: A Surgical Technique. <i>Video Journal of Sports Medicine</i> , 2021, 1, 263502542110038. | 0.3 | 0 |
| 97 | Transosseous Multiple Finger Flexor Tendon Pulley Reconstruction. <i>Video Journal of Sports Medicine</i> , 2022, 2, 263502542210796. | 0.3 | 0 |