

Peter Augat

List of Publications by Year in descending order

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247
papers

13,032
citations

19608

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29081

104
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276
all docs

276
docs citations

276
times ranked

9296
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Effects of Mechanical Factors on the Fracture Healing Process. <i>Clinical Orthopaedics and Related Research</i> , 1998, 355S, S132-S147. | 0.7 | 552 |
| 2 | Influence of size and stability of the osteotomy gap on the success of fracture healing. <i>Journal of Orthopaedic Research</i> , 1997, 15, 577-584. | 1.2 | 446 |
| 3 | Clinical Use of Quantitative Computed Tomography and Peripheral Quantitative Computed Tomography in the Management of Osteoporosis in Adults: The 2007 ISCD Official Positions. <i>Journal of Clinical Densitometry</i> , 2008, 11, 123-162. | 0.5 | 430 |
| 4 | Bone mechanical properties and changes with osteoporosis. <i>Injury</i> , 2016, 47, S11-S20. | 0.7 | 332 |
| 5 | Shear movement at the fracture site delays healing in a diaphyseal fracture model. <i>Journal of Orthopaedic Research</i> , 2003, 21, 1011-1017. | 1.2 | 306 |
| 6 | High-Resolution Magnetic Resonance Imaging: Three-Dimensional Trabecular Bone Architecture and Biomechanical Properties. <i>Bone</i> , 1998, 22, 445-454. | 1.4 | 303 |
| 7 | Prediction of fracture load at different skeletal sites by geometric properties of the cortical shell. <i>Journal of Bone and Mineral Research</i> , 1996, 11, 1356-1363. | 3.1 | 279 |
| 8 | In Vivo High Resolution MRI of the Calcaneus: Differences in Trabecular Structure in Osteoporosis Patients. <i>Journal of Bone and Mineral Research</i> , 1998, 13, 1175-1182. | 3.1 | 261 |
| 9 | The role of cortical bone and its microstructure in bone strength. <i>Age and Ageing</i> , 2006, 35, ii27-ii31. | 0.7 | 258 |
| 10 | Volumetric quantitative computed tomography of the proximal femur: Precision and relation to bone strength. <i>Bone</i> , 1997, 21, 101-108. | 1.4 | 253 |
| 11 | Mechanics and mechano-biology of fracture healing in normal and osteoporotic bone. <i>Osteoporosis International</i> , 2005, 16, S36-S43. | 1.3 | 232 |
| 12 | The effect of mechanical stability on local vascularization and tissue differentiation in callus healing. <i>Journal of Orthopaedic Research</i> , 2002, 20, 1099-1105. | 1.2 | 219 |
| 13 | Far Cortical Locking Can Improve Healing of Fractures Stabilized with Locking Plates. <i>Journal of Bone and Joint Surgery - Series A</i> , 2010, 92, 1652-1660. | 1.4 | 212 |
| 14 | Effect of dynamization on gap healing of diaphyseal fractures under external fixation. <i>Clinical Biomechanics</i> , 1995, 10, 227-234. | 0.5 | 199 |
| 15 | Ultrasound Velocity of Trabecular Cubes Reflects Mainly Bone Density and Elasticity. <i>Calcified Tissue International</i> , 1999, 64, 18-23. | 1.5 | 192 |
| 16 | Trabecular Bone Architecture in the Distal Radius Using Magnetic Resonance Imaging in Subjects with Fractures of the Proximal Femur. <i>Osteoporosis International</i> , 1999, 10, 231-239. | 1.3 | 183 |
| 17 | Bone formation in a long bone defect model using a platelet-rich plasma-loaded collagen scaffold. <i>Biomaterials</i> , 2006, 27, 1817-1823. | 5.7 | 172 |
| 18 | Effects of Construct Stiffness on Healing of Fractures Stabilized with Locking Plates. <i>Journal of Bone and Joint Surgery - Series A</i> , 2010, 92, 12-22. | 1.4 | 172 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Local tissue properties in bone healing: Influence of size and stability of the osteotomy gap. <i>Journal of Orthopaedic Research</i> , 1998, 16, 475-481. | 1.2 | 169 |
| 20 | Correlation of bone mineral density with strength and microstructural parameters of cortical bone in vitro. <i>Bone</i> , 2002, 31, 90-95. | 1.4 | 169 |
| 21 | A Comparative Study of Trabecular Bone Properties in the Spine and Femur Using High Resolution MRI and CT. <i>Journal of Bone and Mineral Research</i> , 1998, 13, 122-132. | 3.1 | 159 |
| 22 | Prediction of fracture callus mechanical properties using micro-CT images and voxel-based finite element analysis. <i>Bone</i> , 2005, 36, 480-488. | 1.4 | 152 |
| 23 | Measuring power during the sit-to-stand transfer. <i>European Journal of Applied Physiology</i> , 2003, 89, 466-470. | 1.2 | 146 |
| 24 | Trabecular bone fracture healing simulation with finite element analysis and fuzzy logic. <i>Journal of Biomechanics</i> , 2005, 38, 2440-2450. | 0.9 | 131 |
| 25 | VEGF producing bone marrow stromal cells (BMSC) enhance vascularization and resorption of a natural coral bone substitute. <i>Bone</i> , 2007, 41, 516-522. | 1.4 | 127 |
| 26 | Accuracy of cortical and trabecular bone measurements with peripheral quantitative computed tomography (pQCT). <i>Physics in Medicine and Biology</i> , 1998, 43, 2873-2883. | 1.6 | 126 |
| 27 | Influence of diclofenac (group of nonsteroidal anti-inflammatory drugs) on fracture healing. <i>Archives of Orthopaedic and Trauma Surgery</i> , 2003, 123, 327-332. | 1.3 | 122 |
| 28 | Early, Full Weightbearing With Flexible Fixation Delays Fracture Healing. <i>Clinical Orthopaedics and Related Research</i> , 1996, 328, 194-202. | 0.7 | 116 |
| 29 | Failure of fracture fixation in osteoporotic bone. <i>Injury</i> , 2016, 47, S3-S10. | 0.7 | 110 |
| 30 | Quantitative Assessment of Experimental Fracture Repair by Peripheral Computed Tomography. <i>Calcified Tissue International</i> , 1997, 60, 194-199. | 1.5 | 109 |
| 31 | Patient-specific finite element analysis of the human femur – A double-blinded biomechanical validation. <i>Journal of Biomechanics</i> , 2011, 44, 1666-1672. | 0.9 | 106 |
| 32 | Quantitative Bone Mineral Assessment at the Forearm: A Review. <i>Osteoporosis International</i> , 1998, 8, 299-310. | 1.3 | 105 |
| 33 | The effect of micromovement on callus formation. <i>Journal of Orthopaedic Science</i> , 2001, 6, 571-575. | 0.5 | 104 |
| 34 | In vivo investigations on composites made of resorbable ceramics and poly(lactide) used as bone graft substitutes. <i>Journal of Biomedical Materials Research Part B</i> , 2001, 58, 701-709. | 3.0 | 99 |
| 35 | Fractal analysis of radiographs: Assessment of trabecular bone structure and prediction of elastic modulus and strength. <i>Medical Physics</i> , 1999, 26, 1330-1340. | 1.6 | 97 |
| 36 | Anisotropy of the elastic modulus of trabecular bone specimens from different anatomical locations. <i>Medical Engineering and Physics</i> , 1998, 20, 124-131. | 0.8 | 96 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | The fracture gap size influences the local vascularization and tissue differentiation in callus healing. <i>Langenbeck's Archives of Surgery</i> , 2003, 388, 316-322. | 0.8 | 94 |
| 38 | Influence of thread design on pedicle screw fixation. <i>Journal of Neurosurgery: Spine</i> , 2008, 9, 90-95. | 0.9 | 93 |
| 39 | Trabecular Bone Mineral and Calculated Structure of Human Bone Specimens Scanned by Peripheral Quantitative Computed Tomography: Relation to Biomechanical Properties. <i>Journal of Bone and Mineral Research</i> , 1998, 13, 1783-1790. | 3.1 | 90 |
| 40 | Evolution of fracture treatment with bone plates. <i>Injury</i> , 2018, 49, S2-S7. | 0.7 | 90 |
| 41 | Image-Based Assessment of Spinal Trabecular Bone Structure from High-Resolution CT Images. <i>Osteoporosis International</i> , 1998, 8, 317-325. | 1.3 | 86 |
| 42 | Strontium Ranelate Enhances Callus Strength More Than PTH 1-34 in an Osteoporotic Rat Model of Fracture Healing. <i>Calcified Tissue International</i> , 2010, 86, 82-89. | 1.5 | 83 |
| 43 | Distal radius fractures: Mechanisms of injury and strength prediction by bone mineral assessment. <i>Journal of Orthopaedic Research</i> , 1998, 16, 629-635. | 1.2 | 79 |
| 44 | A Biomechanical Evaluation of Orthopaedic Implants for Hip Fractures by Finite Element Analysis and <i>In-Vitro</i> Tests. Proceedings of the Institution of Mechanical Engineers, Part H: <i>Journal of Engineering in Medicine</i> , 2010, 224, 1141-1152. | 1.0 | 74 |
| 45 | A numerical model of the fracture healing process that describes tissue development and revascularisation. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2011, 14, 79-93. | 0.9 | 74 |
| 46 | Biomechanics of Femoral Neck Fractures and Implications for Fixation. <i>Journal of Orthopaedic Trauma</i> , 2019, 33, S27-S32. | 0.7 | 74 |
| 47 | Noninvasive Assessment of Bone Density and Structure Using Computed Tomography and Magnetic Resonance This manuscript was partially adapted from Genant, H., Engelke, K., Fuerst, T. Gluer, C. C., Grampp, S., Harris, S. T., Jergas, M., Lang, T., Lu, Y., and Majumdar S. Non-invasive assessment of bone mineral and structure: State of the art. <i>J Bone Miner Res</i> 11:707-729; 1996. <i>Bone</i> , 1998, 22, 149S-153S. | 1.4 | 72 |
| 48 | Degradation behavior of composite pins made of tricalcium phosphate and poly(L,DL-lactide). <i>Journal of Biomaterials Science, Polymer Edition</i> , 2001, 12, 185-194. | 1.9 | 71 |
| 49 | Prediction of cortical bone porosity <i>In Vitro</i> by microcomputed tomography. <i>Calcified Tissue International</i> , 2001, 68, 38-42. | 1.5 | 69 |
| 50 | Type of Hip Fracture Determines Load Share in Intramedullary Osteosynthesis. <i>Clinical Orthopaedics and Related Research</i> , 2009, 467, 1972-1980. | 0.7 | 68 |
| 51 | Assessment of Bone Mineral at Appendicular Sites In Females With Fractures of the Proximal Femur. <i>Bone</i> , 1998, 22, 395-402. | 1.4 | 67 |
| 52 | Influence of the stiffness of bone defect implants on the mechanical conditions at the interface—a finite element analysis with contact. <i>Journal of Biomechanics</i> , 2003, 36, 1079-1086. | 0.9 | 67 |
| 53 | Characterisation of a new bioadhesive system based on polysaccharides with the potential to be used as bone glue. <i>Journal of Materials Science: Materials in Medicine</i> , 2009, 20, 2001-2009. | 1.7 | 67 |
| 54 | The non-steroidal anti-inflammatory drug diclofenac reduces appearance of osteoblasts in bone defect healing in rats. <i>Archives of Orthopaedic and Trauma Surgery</i> , 2007, 127, 453-458. | 1.3 | 66 |

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|----|---|-----|-----------|
| 55 | Assessment of Trabecular Structure Using High Resolution CT Images and Texture Analysis. Journal of Computer Assisted Tomography, 1998, 22, 15-24. | 0.5 | 66 |
| 56 | Hip screw migration testing: First results for hip screws and helical blades utilizing a new oscillating test method. Journal of Orthopaedic Research, 2011, 29, 760-766. | 1.2 | 65 |
| 57 | Dynamic Stabilization with Active Locking Plates Delivers Faster, Stronger, and More Symmetric Fracture-Healing. Journal of Bone and Joint Surgery - Series A, 2016, 98, 466-474. | 1.4 | 65 |
| 58 | Moderate soft tissue trauma delays new bone formation only in the early phase of fracture healing. Journal of Orthopaedic Research, 2006, 24, 1178-1185. | 1.2 | 64 |
| 59 | Influence of intramedullary nail diameter and locking mode on the stability of tibial shaft fracture fixation. Archives of Orthopaedic and Trauma Surgery, 2009, 129, 525-531. | 1.3 | 64 |
| 60 | Imaging techniques for the assessment of fracture repair. Injury, 2014, 45, S16-S22. | 0.7 | 63 |
| 61 | Power Spectral Analysis of Vertebral Trabecular Bone Structure from Radiographs: Orientation Dependence and Correlation with Bone Mineral Density and Mechanical Properties. Calcified Tissue International, 1998, 63, 482-489. | 1.5 | 62 |
| 62 | Interfragmentary Movement in Diaphyseal Tibia Fractures Fixed With Locked Intramedullary Nails. Journal of Orthopaedic Trauma, 2008, 22, 30-36. | 0.7 | 62 |
| 63 | A biomechanical rationale for C1-ring osteosynthesis as treatment for displaced Jefferson burst fractures with incompetency of the transverse atlantal ligament. European Spine Journal, 2010, 19, 1288-1298. | 1.0 | 62 |
| 64 | Biomechanical methods for the assessment of fracture repair. Injury, 2014, 45, S32-S38. | 0.7 | 61 |
| 65 | Validation of a Femoral Critical Size Defect Model for Orthotopic Evaluation of Bone Healing: A Biomechanical, Veterinary and Trauma Surgical Perspective. Tissue Engineering - Part C: Methods, 2008, 14, 79-88. | 1.1 | 60 |
| 66 | Mechanical Stimulation by External Application of Cyclic Tensile Strains Does Not Effectively Enhance Bone Healing. Journal of Orthopaedic Trauma, 2001, 15, 54-60. | 0.7 | 59 |
| 67 | A Modified Hip Screw Incorporating Injected Cement for the Fixation of Osteoporotic Trochanteric Fractures. Journal of Orthopaedic Trauma, 2002, 16, 311-316. | 0.7 | 58 |
| 68 | Cervical anterior transpedicular screw fixation (ATPS)â€™Part II. Accuracy of manual insertion and pull-out strength of ATPS. European Spine Journal, 2008, 17, 539-555. | 1.0 | 57 |
| 69 | Clinical evaluation of medicinal products for acceleration of fracture healing in patients with osteoporosis. Bone, 2008, 43, 343-347. | 1.4 | 57 |
| 70 | Effect of Coracoid Drilling for Acromioclavicular Joint Reconstruction Techniques on Coracoid Fracture Risk: A Biomechanical Study. Arthroscopy - Journal of Arthroscopic and Related Surgery, 2016, 32, 982-987. | 1.3 | 57 |
| 71 | Effects of High-Frequency, Low-Magnitude Mechanical Stimulus on Bone Healing. Clinical Orthopaedics and Related Research, 2001, 385, 192-198. | 0.7 | 55 |
| 72 | Breakage of cephalomedullary nailing in operative treatment of trochanteric and subtrochanteric femoral fractures. Archives of Orthopaedic and Trauma Surgery, 2015, 135, 179-185. | 1.3 | 55 |

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|----|---|-----|-----------|
| 73 | Gait analysis – Available platforms for outcome assessment. <i>Injury</i> , 2020, 51, S90-S96. | 0.7 | 55 |
| 74 | Anatomical plate configuration affects mechanical performance in distal humerus fractures. <i>Clinical Biomechanics</i> , 2010, 25, 972-978. | 0.5 | 54 |
| 75 | Biomechanics of Osteoporotic Fracture Fixation. <i>Current Osteoporosis Reports</i> , 2019, 17, 363-374. | 1.5 | 54 |
| 76 | Extension of a state-of-the-art optimization criterion to predict co-contraction. <i>Journal of Biomechanics</i> , 2004, 37, 577-581. | 0.9 | 53 |
| 77 | Effects of diclofenac on periosteal callus maturation in osteotomy healing in an animal model. <i>Archives of Orthopaedic and Trauma Surgery</i> , 2006, 127, 3-9. | 1.3 | 53 |
| 78 | Predictive value of bone mineral density and morphology determined by peripheral quantitative computed tomography for cancellous bone strength of the proximal femur. <i>Bone</i> , 2001, 28, 133-139. | 1.4 | 52 |
| 79 | Glucocorticoid Treatment of Ovariectomized Sheep Affects Mineral Density, Structure, and Mechanical Properties of Cancellous Bone. <i>Journal of Bone and Mineral Research</i> , 2003, 18, 2010-2015. | 3.1 | 51 |
| 80 | Temporary distraction and compression of a diaphyseal osteotomy accelerates bone healing. <i>Journal of Orthopaedic Research</i> , 2008, 26, 772-777. | 1.2 | 51 |
| 81 | The role of mechanical stimulation in the enhancement of bone healing. <i>Injury</i> , 2021, 52, S78-S83. | 0.7 | 51 |
| 82 | Revascularisation during fracture healing with soft tissue injury. <i>Archives of Orthopaedic and Trauma Surgery</i> , 2008, 128, 1159-1165. | 1.3 | 47 |
| 83 | Treating patella fractures with a locking patella plate - first clinical results. <i>Injury</i> , 2018, 49, S51-S55. | 0.7 | 47 |
| 84 | In vivo effect of shock-waves on the healing of fractured bone. <i>Clinical Biomechanics</i> , 1995, 10, 374-378. | 0.5 | 46 |
| 85 | An investigation to determine if a single validated density–elasticity relationship can be used for subject specific finite element analyses of human long bones. <i>Medical Engineering and Physics</i> , 2013, 35, 875-883. | 0.8 | 46 |
| 86 | Evidence for anti-osteoporosis therapy in acute fracture situations – Recommendations of a multidisciplinary workshop of the International Society for Fracture Repair. <i>Bone</i> , 2010, 46, 267-271. | 1.4 | 45 |
| 87 | Biomechanical Assessment of Locked Plating for the Fixation of Patella Fractures. <i>Journal of Orthopaedic Trauma</i> , 2015, 29, e305-e308. | 0.7 | 45 |
| 88 | Biomechanical Evaluation of Interlocking Lag Screw Design in Intramedullary Nailing of Unstable Pterochantheric Fractures. <i>Journal of Orthopaedic Trauma</i> , 2013, 27, 483-490. | 0.7 | 44 |
| 89 | Increase of stability in external fracture fixation by hydroxyapatite-coated bone screws. <i>Journal of Applied Biomaterials: an Official Journal of the Society for Biomaterials</i> , 1995, 6, 99-104. | 1.1 | 43 |
| 90 | In vivo assessment of trabecular bone structure using fractal analysis of distal radius radiographs. <i>Medical Physics</i> , 2000, 27, 2594-2599. | 1.6 | 42 |

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|-----|--|-----|-----------|
| 91 | Osseointegration of alumina with a bioactive coating under load-bearing and unloaded conditions. <i>Biomaterials</i> , 2005, 26, 2325-2332. | 5.7 | 42 |
| 92 | The Repair of Critical-Sized Bone Defects Using Expedited, Autologous BMP-2 Gene-Activated Fat Implants. <i>Tissue Engineering - Part A</i> , 2010, 16, 1093-1101. | 1.6 | 42 |
| 93 | External fixation of the lower extremities: Biomechanical perspective and recent innovations. <i>Injury</i> , 2019, 50, S10-S17. | 0.7 | 42 |
| 94 | Morphometric texture analysis of spinal trabecular bone structure assessed using orthogonal radiographic projections. <i>Medical Physics</i> , 1998, 25, 2037-2045. | 1.6 | 41 |
| 95 | Biomechanical comparison of locked plate osteosynthesis, reamed and unreamed nailing in conventional interlocking technique, and unreamed angle stable nailing in distal tibia fractures. <i>Journal of Trauma and Acute Care Surgery</i> , 2012, 73, 933-938. | 1.1 | 41 |
| 96 | CT assessment of herniation pits: prevalence, characteristics, and potential association with morphological predictors of femoroacetabular impingement. <i>European Radiology</i> , 2008, 18, 1869-1875. | 2.3 | 40 |
| 97 | Intraosseous Fixation Compared to Plantar Plate Fixation for First Metatarsocuneiform Arthrodesis. <i>Foot and Ankle International</i> , 2014, 35, 1209-1216. | 1.1 | 39 |
| 98 | Prediction of strength of cortical bone in vitro by microcomputed tomography. <i>Clinical Biomechanics</i> , 2001, 16, 252-256. | 0.5 | 38 |
| 99 | Inhibition of cortical and cancellous bone formation in glucocorticoid-treated OVX sheep. <i>Bone</i> , 2005, 37, 491-496. | 1.4 | 38 |
| 100 | When is the stability of a fracture fixation limited by osteoporotic bone?. <i>Injury</i> , 2016, 47, S27-S32. | 0.7 | 37 |
| 101 | Predictive value of bone mineral density and Singh Index for the in vitro mechanical properties of cancellous bone in the femoral head. <i>Clinical Biomechanics</i> , 1999, 14, 346-351. | 0.5 | 36 |
| 102 | Prediction of bone strength of distal forearm using radius bone mineral density and phalangeal speed of sound. <i>Bone</i> , 2000, 26, 529-533. | 1.4 | 36 |
| 103 | Composites made of rapidly resorbable ceramics and poly(lactide) show adequate mechanical properties for use as bone substitute materials. <i>Journal of Biomedical Materials Research Part B</i> , 2001, 57, 126-131. | 3.0 | 36 |
| 104 | Effects of one-plane and two-plane external fixation on sheep osteotomy healing and complications. <i>Clinical Biomechanics</i> , 2002, 17, 470-476. | 0.5 | 36 |
| 105 | Implant Material and Design Alter Construct Stiffness in Distal Femur Locking Plate Fixation: A Pilot Study. <i>Clinical Orthopaedics and Related Research</i> , 2013, 471, 2808-2814. | 0.7 | 36 |
| 106 | A new bioresorbable polymer for screw augmentation in the osteosynthesis of osteoporotic cancellous bone: A biomechanical evaluation. <i>Journal of Biomedical Materials Research Part B</i> , 2001, 58, 254-260. | 3.0 | 33 |
| 107 | Implant Material, Type of Fixation at the Shaft, and Position of Plate Modify Biomechanics of Distal Femur Plate Osteosynthesis. <i>Journal of Orthopaedic Trauma</i> , 2017, 31, e241-e246. | 0.7 | 33 |
| 108 | Stability of femoral neck fracture fixation: A finite element analysis. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2019, 233, 892-900. | 1.0 | 33 |

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|-----|---|-----|-----------|
| 109 | Dynamic Stabilization of Simple Fractures With Active Plates Delivers Stronger Healing Than Conventional Compression Plating. <i>Journal of Orthopaedic Trauma</i> , 2017, 31, 71-77. | 0.7 | 32 |
| 110 | Improvement of the shear fixation stability of intramedullary nailing. <i>Clinical Biomechanics</i> , 2011, 26, 147-151. | 0.5 | 31 |
| 111 | Effect of local infiltration analgesia, peripheral nerve blocks, general and spinal anesthesia on early functional recovery and pain control in unicompartmental knee arthroplasty. <i>BMC Musculoskeletal Disorders</i> , 2018, 19, 249. | 0.8 | 31 |
| 112 | Calcaneal fractures cause a lateral load shift in Chopart joint contact stress and plantar pressure pattern in vitro. <i>Journal of Biomechanics</i> , 1996, 29, 1435-1443. | 0.9 | 30 |
| 113 | Influence of total knee arthroplasty on patellar kinematics and contact characteristics. <i>International Orthopaedics</i> , 2012, 36, 73-78. | 0.9 | 30 |
| 114 | Individual density-elasticity relationships improve accuracy of subject-specific finite element models of human femurs. <i>Journal of Biomechanics</i> , 2013, 46, 2152-2157. | 0.9 | 30 |
| 115 | Biomechanical comparison of two side plate fixation techniques in an unstable intertrochanteric osteotomy model: Sliding Hip Screw and Percutaneous Compression Plate. <i>Clinical Biomechanics</i> , 2007, 22, 1112-1118. | 0.5 | 29 |
| 116 | Loads in the hip joint during physically demanding occupational tasks: A motion analysis study. <i>Journal of Biomechanics</i> , 2015, 48, 3227-3233. | 0.9 | 29 |
| 117 | Glucocorticoid-treated sheep as a model for osteopenic trabecular bone in biomaterials research. <i>Journal of Biomedical Materials Research Part B</i> , 2003, 66A, 457-462. | 3.0 | 28 |
| 118 | Mechanical regulation of HB-GAM expression in bone cells. <i>Biochemical and Biophysical Research Communications</i> , 2004, 319, 951-958. | 1.0 | 27 |
| 119 | The impact of a distal expansion mechanism added to a standard pedicle screw on pullout resistance. A biomechanical study. <i>Spine Journal</i> , 2013, 13, 532-541. | 0.6 | 27 |
| 120 | The pararectus approach for internal fixation of acetabular fractures involving the anterior column: evaluating the functional outcome. <i>International Orthopaedics</i> , 2019, 43, 1487-1493. | 0.9 | 27 |
| 121 | A high-glucose diet affects Achilles tendon healing in rats. <i>Scientific Reports</i> , 2017, 7, 780. | 1.6 | 26 |
| 122 | Predictive value of Singh index and bone mineral density measured by quantitative computed tomography in determining the local cancellous bone quality of the proximal femur. <i>Clinical Biomechanics</i> , 2001, 16, 257-262. | 0.5 | 25 |
| 123 | Quantitative Imaging of Musculoskeletal Tissue. <i>Annual Review of Biomedical Engineering</i> , 2008, 10, 369-390. | 5.7 | 25 |
| 124 | Auxiliary locking plate improves fracture stability and healing in intertrochanteric fractures fixated by intramedullary nail. <i>Clinical Biomechanics</i> , 2012, 27, 1006-1010. | 0.5 | 25 |
| 125 | Biomechanical Evaluation of Subtalar Fusion: The Influence of Screw Configuration and Placement. <i>Journal of Foot and Ankle Surgery</i> , 2013, 52, 177-183. | 0.5 | 25 |
| 126 | Repair of large segmental bone defects: BMP-2 gene activated muscle grafts vs. autologous bone grafting. <i>BMC Biotechnology</i> , 2013, 13, 65. | 1.7 | 25 |

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|-----|--|-----|-----------|
| 127 | Checklist and Scoring System for the Assessment of Soft Tissue Preservation in CT Examinations of Human Mummies. PLoS ONE, 2015, 10, e0133364. | 1.1 | 25 |
| 128 | Managing Vancouver B1 fractures by cerclage system compared to locking plate fixation – a biomechanical study. Injury, 2016, 47, S51-S57. | 0.7 | 25 |
| 129 | The pivotal role of the coronal fracture line for a new three-dimensional CT-based fracture classification of bicondylar proximal tibial fractures. Injury, 2017, 48, 2214-2220. | 0.7 | 25 |
| 130 | Influence of preoperative mechanical bone quality and bone mineral density on aseptic loosening of total hip arthroplasty after seven years. Clinical Biomechanics, 2003, 18, 916-923. | 0.5 | 24 |
| 131 | Effect of local infiltration analgesia, peripheral nerve blocks, general and spinal anesthesia on early functional recovery and pain control in total knee arthroplasty. BMC Musculoskeletal Disorders, 2018, 19, 232. | 0.8 | 24 |
| 132 | Intact fibula improves fracture healing in a rat tibia osteotomy model. Journal of Orthopaedic Research, 2005, 23, 489-493. | 1.2 | 23 |
| 133 | Complex Distal Humerus Fractures – Comparison of Polyaxial Locking and Nonlocking Screw Configurations – A Preliminary Biomechanical Study. Journal of Orthopaedic Trauma, 2014, 28, 130-136. | 0.7 | 23 |
| 134 | Load distribution between cephalic screws in a dual lag screw trochanteric nail. Journal of Orthopaedic Surgery and Research, 2016, 11, 41. | 0.9 | 23 |
| 135 | Osteoporosis prevalence and fracture characteristics in elderly female patients with fractures. Archives of Orthopaedic and Trauma Surgery, 2010, 130, 1405-1410. | 1.3 | 22 |
| 136 | Reamed intramedullary nailing of diaphyseal tibial fractures: comparison of compression and non-compression nailing. European Journal of Trauma and Emergency Surgery, 2013, 39, 73-77. | 0.8 | 22 |
| 137 | Biomechanical comparison of intramedullar versus extramedullar stabilization of intra-articular tibial plateau fractures. Archives of Orthopaedic and Trauma Surgery, 2013, 133, 59-64. | 1.3 | 21 |
| 138 | Should extramedullary fixations for hip fractures be removed after bone union?. Clinical Biomechanics, 2011, 26, 410-414. | 0.5 | 20 |
| 139 | Bupivacaine Induces Short-Term Alterations and Impairment in Rat Tendons. American Journal of Sports Medicine, 2013, 41, 1411-1418. | 1.9 | 20 |
| 140 | Critical Issues in Translational and Clinical Research for the Study of New Technologies to Enhance Bone Repair. Journal of Bone and Joint Surgery - Series A, 2008, 90, 43-47. | 1.4 | 20 |
| 141 | Lifetime predictions for resin-based composites using cyclic and dynamic fatigue. Journal of Biomedical Materials Research Part B, 2001, 58, 247-253. | 3.0 | 19 |
| 142 | Influence of haemorrhagic shock on fracture healing. Langenbeck's Archives of Surgery, 2003, 388, 331-338. | 0.8 | 19 |
| 143 | The Pararectus Approach in Acetabular Surgery: Radiological and Clinical Outcome. Journal of Orthopaedic Trauma, 2020, 34, 82-88. | 0.7 | 19 |
| 144 | The stability of a hip fracture determines the fatigue of an intramedullary nail. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2010, 224, 577-584. | 1.0 | 18 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
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