

# Hagen Schmal

## List of Publications by Year in descending order

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Version: 2024-02-01

152  
papers

5,656  
citations

87843

38  
h-index

91828

69  
g-index

179  
all docs

179  
docs citations

179  
times ranked

5375  
citing authors

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Protective effects of C5a blockade in sepsis. <i>Nature Medicine</i> , 1999, 5, 788-792.  | 15.2 | 385       |
| 2  | Characteristic Complications after Autologous Chondrocyte Implantation for Cartilage Defects of the Knee Joint. <i>American Journal of Sports Medicine</i> , 2008, 36, 2091-2099.   | 1.9  | 238       |
| 3  | Mortality in Patients With Pelvic Fractures: Results From the German Pelvic Injury Register. <i>Journal of Trauma</i> , 2008, 64, 449-455.  | 2.3  | 191       |
| 4  | Arthroscopic Transtibial Pullout Repair for Posterior Medial Meniscus Root Tears: A Systematic Review of Clinical, Radiographic, and Second-Look Arthroscopic Results. <i>Arthroscopy - Journal of Arthroscopic and Related Surgery</i> , 2015, 31, 1808-1816.  | 1.3  | 184       |
| 5  | Open-Wedge Osteotomy Using an Internal Plate Fixator in Patients With Medial-Compartment Gonarthrosis and Varus Malalignment: 3-Year Results With Regard to Preoperative Arthroscopic and Radiographic Findings. <i>Arthroscopy - Journal of Arthroscopic and Related Surgery</i> , 2010, 26, 1607-1616.            | 1.3  | 180       |
| 6  | Comparison of Immunological Properties of Bone Marrow Stromal Cells and Adipose Tissue-Derived Stem Cells Before and After Osteogenic Differentiation In Vitro. <i>Tissue Engineering</i> , 2007, 13, 111-121.  | 4.9  | 168       |
| 7  | Prospective 5-year survival rate data following open-wedge valgus high tibial osteotomy. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2015, 23, 1949-1955.   | 2.3  | 138       |
| 8  | Long-term Outcomes After First-Generation Autologous Chondrocyte Implantation for Cartilage Defects of the Knee. <i>American Journal of Sports Medicine</i> , 2014, 42, 150-157.  | 1.9  | 128       |
| 9  | Differential effects of BMP-2 and TGF- $\beta$ 1 on chondrogenic differentiation of adipose derived stem cells. <i>Cell Proliferation</i> , 2007, 40, 809-823.  | 2.4  | 127       |
| 10 | Role of CC Chemokines (Macrophage Inflammatory Protein-1 $\beta$ , Monocyte Chemoattractant Protein-1,) Tj ETQq0 0 0 rgBT /Overlock 10  | 0.48 | 126       |
| 11 | Malposition and revision rates of different imaging modalities for percutaneous iliosacral screw fixation following pelvic fractures: a systematic review and meta-analysis. <i>Archives of Orthopaedic and Trauma Surgery</i> , 2013, 133, 1257-1265.  | 1.3  | 126       |
| 12 | Mesenchymal Stem Cells Maintain TGF- $\beta$ 2-Mediated Chondrogenic Phenotype in Alginate Bead Culture. <i>Tissue Engineering</i> , 2006, 12, 1393-1403.   | 4.9  | 116       |
| 13 | Expression of Lung Vascular and Airway ICAM-1 after Exposure to Bacterial Lipopolysaccharide. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 1997, 17, 344-352.  | 1.4  | 113       |
| 14 | Mechanisms of Enhanced Lung Injury during Sepsis. <i>American Journal of Pathology</i> , 1999, 154, 1057-1065.  | 1.9  | 113       |
| 15 | Autologous chondrocyte implantation for the treatment of chondral and osteochondral defects of the talus: a meta-analysis of available evidence. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2012, 20, 1696-1703.   | 2.3  | 113       |
| 16 | A non-randomized controlled clinical trial on autologous chondrocyte implantation (ACI) in cartilage defects of the medial femoral condyle with or without high tibial osteotomy in patients with varus deformity of less than 5 $^{\circ}$ . <i>Archives of Orthopaedic and Trauma Surgery</i> , 2013, 133, 43-49. | 1.3  | 112       |
| 17 | Survival trends and predictors of mortality in severe pelvic trauma: Estimates from the German Pelvic Trauma Registry Initiative. <i>Injury</i> , 2011, 42, 997-1002.   | 0.7  | 103       |
| 18 | Differential Expression Pattern of Extracellular Matrix Molecules During Chondrogenesis of Mesenchymal Stem Cells from Bone Marrow and Adipose Tissue. <i>Tissue Engineering</i> , 2006, 12, 2853-2862.   | 4.9  | 98        |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 19 | Autologous Chondrocyte Implantation for Treatment of Cartilage Defects of the Knee. <i>American Journal of Sports Medicine</i> , 2012, 40, 58-67.  | 1.9 | 96        |
| 20 | Angioembolization for pelvic hemorrhage control. <i>Journal of Trauma</i> , 2012, 73, 679-684.   | 2.3 | 75        |
| 21 | Survival of human mesenchymal stromal cells from bone marrow and adipose tissue after xenogenic transplantation in immunocompetent mice. <i>Cytotherapy</i> , 2008, 10, 784-795.   | 0.3 | 74        |
| 22 | Clinical results after different operative treatment methods of radial head and neck fractures. <i>Injury</i> , 2013, 44, 1540-1550.   | 0.7 | 68        |
| 23 | Development and Characterization of a Spheroidal Coculture Model of Endothelial Cells and Fibroblasts for Improving Angiogenesis in Tissue Engineering. <i>Cells Tissues Organs</i> , 2005, 181, 80-88.  | 1.3 | 67        |
| 24 | Protective effects of an aptamer inhibitor of neutrophil elastase in lung inflammatory injury. <i>Current Biology</i> , 1997, 7, 877-880.  | 1.8 | 65        |
| 25 | Computer-assisted navigation for the intraoperative assessment of lower limb alignment in high tibial osteotomy can avoid outliers compared with the conventional technique. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2013, 21, 181-188.              | 2.3 | 65        |
| 26 | The Potential for Synovium-derived Stem Cells in Cartilage Repair. <i>Current Stem Cell Research and Therapy</i> , 2018, 13, 174-184.  | 0.6 | 62        |
| 27 | First-generation versus second-generation autologous chondrocyte implantation for treatment of cartilage defects of the knee: a matched-pair analysis on long-term clinical outcome. <i>International Orthopaedics</i> , 2014, 38, 2065-2070.                        | 0.9 | 60        |
| 28 | Role of complement in in vitro and in vivo lung inflammatory reactions. <i>Journal of Leukocyte Biology</i> , 1998, 64, 40-48.   | 1.5 | 59        |
| 29 | Chondrocyte-Seeded Type I/III Collagen Membrane for Autologous Chondrocyte Transplantation: Prospective 2-Year Results in Patients With Cartilage Defects of the Knee Joint. <i>Arthroscopy - Journal of Arthroscopic and Related Surgery</i> , 2010, 26, 1074-1082. | 1.3 | 59        |
| 30 | Chondrogenesis of Adipose-Derived Adult Stem Cells in a Poly-Lactide-Co-Glycolide Scaffold. <i>Tissue Engineering - Part A</i> , 2009, 15, 1159-1167.  | 1.6 | 58        |
| 31 | Influence of Cell Quality on Clinical Outcome After Autologous Chondrocyte Implantation. <i>American Journal of Sports Medicine</i> , 2012, 40, 556-561.   | 1.9 | 58        |
| 32 | Chondrogenic Differentiation of Human Articular Chondrocytes Differs in Biodegradable PGA/PLA Scaffolds. <i>Tissue Engineering</i> , 2007, 13, 2335-2343.  | 4.9 | 55        |
| 33 | Long-term T2 and Qualitative MRI Morphology After First-Generation Knee Autologous Chondrocyte Implantation. <i>American Journal of Sports Medicine</i> , 2014, 42, 1832-1840.   | 1.9 | 47        |
| 34 | Synergistic Enhancement of Chemokine Generation and Lung Injury by C5a or the Membrane Attack Complex of Complement. <i>American Journal of Pathology</i> , 1999, 154, 1513-1524.  | 1.9 | 46        |
| 35 | Intra- and postoperative complications of navigated and conventional techniques in percutaneous iliosacral screw fixation after pelvic fractures: Results from the German Pelvic Trauma Registry. <i>Injury</i> , 2013, 44, 1765-1772.                               | 0.7 | 45        |
| 36 | Nonunion – consensus from the 4th annual meeting of the Danish Orthopaedic Trauma Society. <i>EFORT Open Reviews</i> , 2020, 5, 46-57.   | 1.8 | 45        |

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|----|---|-----|-----------|
| 37 | Presence of subchondral bone marrow edema at the time of treatment represents a negative prognostic factor for early outcome after autologous chondrocyte implantation. Archives of Orthopaedic and Trauma Surgery, 2010, 130, 977-983. | 1.3 | 44        |
| 38 | Surgical treatment of osteochondritis dissecans of the talus: a systematic review. Archives of Orthopaedic and Trauma Surgery, 2012, 132, 1241-1250.  | 1.3 | 42        |
| 39 | Epidemiology and outcome of complex pelvic injury. Acta Orthopaedica Belgica, 2005, 71, 41-7.   | 0.1 | 42        |
| 40 | bFGF influences human articular chondrocyte differentiation. Cytotherapy, 2007, 9, 184-193.   | 0.3 | 41        |
| 41 | Indications for computed tomography (CT-) diagnostics in proximal humeral fractures: a comparative study of plain radiography and computed tomography. BMC Musculoskeletal Disorders, 2009, 10, 33.                                     | 0.8 | 37        |
| 42 | Clinical Outcomes After Cell-Seeded Autologous Chondrocyte Implantation of the Knee. American Journal of Sports Medicine, 2014, 42, 208-215.  | 1.9 | 36        |
| 43 | The trans-well coculture of human synovial mesenchymal stem cells with chondrocytes leads to self-organization, chondrogenic differentiation, and secretion of TGF $\beta$ 2. Stem Cell Research and Therapy, 2016, 7, 64.              | 2.4 | 36        |
| 44 | A Systematic Review and Meta-Analysis on Treatment of Ankle Fractures With Syndesmotic Rupture: Suture-Button Fixation Versus Cortical Screw Fixation. Journal of Foot and Ankle Surgery, 2019, 58, 946-953.                            | 0.5 | 35        |
| 45 | In vivo quantification of intraarticular cytokines in knees during natural and surgically induced cartilage repair. Cytotherapy, 2009, 11, 1065-1075.   | 0.3 | 33        |
| 46 | Flexible Fixation and Fracture Healing: Do Locked Plating $\hat{=}$ Internal Fixators $\hat{=}$ ™ Resemble External Fixators?. Journal of Orthopaedic Trauma, 2011, 25, S15-S20.  | 0.7 | 33        |
| 47 | Particulate cartilage under bioreactor-induced compression and shear. International Orthopaedics, 2014, 38, 1105-1111.  | 0.9 | 33        |
| 48 | Differing Patterns of P-Selectin Expression in Lung Injury. American Journal of Pathology, 1998, 153, 1113-1122.  | 1.9 | 32        |
| 49 | The enigma of atypical femoral fractures. EFORT Open Reviews, 2018, 3, 494-500.   | 1.8 | 32        |
| 50 | Predictors for secondary hip osteoarthritis after acetabular fractures $\hat{=}$ ”a pelvic registry study. International Orthopaedics, 2019, 43, 2167-2173.   | 0.9 | 32        |
| 51 | The Tissue Renin-Angiotensin System and Its Role in the Pathogenesis of Major Human Diseases: Quo Vadis?. Cells, 2021, 10, 650.   | 1.8 | 31        |
| 52 | Roles for C-X-C chemokines and C5a in lung injury after hindlimb ischemia-reperfusion. American Journal of Physiology - Lung Cellular and Molecular Physiology, 1999, 276, L57-L63.   | 1.3 | 30        |
| 53 | In vitro cell quality of articular chondrocytes assigned for autologous implantation in dependence of specific patient characteristics. Archives of Orthopaedic and Trauma Surgery, 2011, 131, 779-789.                                 | 1.3 | 28        |
| 54 | Induction of Osteogenic Differentiation in Human Mesenchymal Stem Cells by Crosstalk with Osteoblasts. BioResearch Open Access, 2015, 4, 121-130.   | 2.6 | 28        |

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|----|---|-----|-----------|
| 55 | Association between expression of the Bone morphogenetic proteins 2 and 7 in the repair of circumscribed cartilage lesions with clinical outcome. <i>BMC Musculoskeletal Disorders</i> , 2010, 11, 170.   | 0.8 | 26        |
| 56 | Pelvic Fractures in Children Results from the German Pelvic Trauma Registry. <i>Medicine (United States)</i> , 2015, 94, e2325.   | 0.4 | 26        |
| 57 | Radiographic classification for fractures of the fifth metatarsal base. <i>Skeletal Radiology</i> , 2014, 43, 467-474.  | 1.2 | 25        |
| 58 | Clinical trial and in-vitro study comparing the efficacy of treating bony lesions with allografts versus synthetic or highly-processed xenogeneic bone grafts. <i>BMC Musculoskeletal Disorders</i> , 2016, 17, 77.                                     | 0.8 | 25        |
| 59 | Effects of three-dimensional navigation on intraoperative management and early postoperative outcome after open reduction and internal fixation of displaced acetabular fractures. <i>Journal of Trauma and Acute Care Surgery</i> , 2012, 73, 950-956. | 1.1 | 24        |
| 60 | In-vitro chondrogenic potential of synovial stem cells and chondrocytes allocated for autologous chondrocyte implantation – a comparison. <i>International Orthopaedics</i> , 2017, 41, 991-998.  | 0.9 | 24        |
| 61 | Microfracture for Treatment of Knee Cartilage Defects in Children and Adolescents. <i>Mental Illness</i> , 2012, 4, e21.  | 0.8 | 23        |
| 62 | Single-cell high-content imaging parameters predict functional phenotype of cultured human bone marrow stromal stem cells. <i>Stem Cells Translational Medicine</i> , 2020, 9, 189-202.   | 1.6 | 22        |
| 63 | Operative versus nonoperative treatment of humeral shaft fractures: a systematic review and meta-analysis. <i>Journal of Shoulder and Elbow Surgery</i> , 2020, 29, 2495-2504.  | 1.2 | 22        |
| 64 | Comparison of cellular functionality of human mesenchymal stromal cells and PBMC. <i>Cytotherapy</i> , 2007, 9, 69-79.  | 0.3 | 21        |
| 65 | Autologous chondrocyte implantation in children and adolescents. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2013, 21, 671-677.   | 2.3 | 21        |
| 66 | BMP2 and TGF- $\beta$ 2 Cooperate Differently during Synovial-Derived Stem-Cell Chondrogenesis in a Dexamethasone-Dependent Manner. <i>Cells</i> , 2019, 8, 636.  | 1.8 | 21        |
| 67 | Clinical evaluation of manual stress testing, stress ultrasound and 3D stress MRI in chronic mechanical ankle instability. <i>BMC Musculoskeletal Disorders</i> , 2021, 22, 198.  | 0.8 | 21        |
| 68 | Pain Perception in Knees With Circumscribed Cartilage Lesions Is Associated With Intra-articular IGF-1 Expression. <i>American Journal of Sports Medicine</i> , 2011, 39, 1989-1996.  | 1.9 | 19        |
| 69 | Nanomechanics of Human Adipose-Derived Stem Cells: Small GTPases Impact Chondrogenic Differentiation. <i>Tissue Engineering - Part A</i> , 2012, 18, 1035-1044.   | 1.6 | 19        |
| 70 | Inter- and intraobserver reliability of the MTM-classification for proximal humeral fractures: A prospective study. <i>BMC Musculoskeletal Disorders</i> , 2008, 9, 21.   | 0.8 | 18        |
| 71 | Biochemical Characterization of Early Osteoarthritis in the Ankle. <i>Scientific World Journal</i> , The, 2014, 2014, 1-9.  | 0.8 | 18        |
| 72 | Stimulation of chondrocytes in vitro by gene transfer with plasmids coding for epidermal growth factor (hEGF) and basic fibroblast growth factor (bFGF). <i>Cytotherapy</i> , 2005, 7, 292-300.   | 0.3 | 17        |

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|----|---|-----|-----------|
| 73 | Regulative Mechanisms of Chondrocyte Adhesion. <i>Tissue Engineering</i> , 2006, 12, 741-750.   | 4.9 | 17        |
| 74 | Expression of BMP-receptor type 1A correlates with progress of osteoarthritis in human knee joints with focal cartilage lesions. <i>Cytherapy</i> , 2012, 14, 868-876.  | 0.3 | 17        |
| 75 | Inhibition of the anti-apoptotic protein MCL-1 severely suppresses human hematopoiesis. <i>Haematologica</i> , 2021, 106, 3136-3148.  | 1.7 | 17        |
| 76 | Identification of Risk Factors for Neurological Deficits in Patients with Pelvic Fractures. <i>Orthopedics</i> , 2010, 33, .  | 0.5 | 17        |
| 77 | Synovial cytokine expression in ankle osteoarthritis depends on age and stage. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2015, 23, 1359-1367.   | 2.3 | 16        |
| 78 | Autologous Chondrocyte Implantation in Osteoarthritic Surroundings: TNF $\alpha$ and Its Inhibition by Adalimumab in a Knee-Specific Bioreactor. <i>American Journal of Sports Medicine</i> , 2018, 46, 431-440.  | 1.9 | 16        |
| 79 | Functional deficits in chronic mechanical ankle instability. <i>Journal of Orthopaedic Surgery and Research</i> , 2020, 15, 304.  | 0.9 | 16        |
| 80 | Early Intra-Articular Complement Activation in Ankle Fractures. <i>BioMed Research International</i> , 2014, 2014, 1-8.   | 0.9 | 15        |
| 81 | Validation of Activity Tracking Procedures in Elderly Patients after Operative Treatment of Proximal Femur Fractures. <i>Rehabilitation Research and Practice</i> , 2018, 2018, 1-9.  | 0.5 | 15        |
| 82 | Comparing case-control study for treatment of proximal tibia fractures with a complete metaphyseal component in two centers with different distinct strategies: fixation with Ilizarov frame or locking plates. <i>Journal of Orthopaedic Surgery and Research</i> , 2018, 13, 121. | 0.9 | 15        |
| 83 | Fractures of the patella in children and adolescents. <i>Acta Orthopaedica Belgica</i> , 2010, 76, 644-50.  | 0.1 | 15        |
| 84 | Dynamic plantar pressure distribution, strength capacity and postural control after Lisfranc fracture-dislocation. <i>Gait and Posture</i> , 2017, 52, 332-337.   | 0.6 | 14        |
| 85 | Detection of major histocompatibility complex molecules in processed allogeneic bone blocks for use in alveolar ridge reconstruction. <i>Oral Surgery, Oral Medicine, Oral Pathology and Oral Radiology</i> , 2018, 126, 16-21.   | 0.2 | 14        |
| 86 | Comparison of Regenerative Tissue Quality following Matrix-Associated Cell Implantation Using Amplified Chondrocytes Compared to Synovium-Derived Stem Cells in a Rabbit Model for Cartilage Lesions. <i>Stem Cells International</i> , 2018, 2018, 1-12.                           | 1.2 | 14        |
| 87 | Immunohistological Localization of BMP-2, BMP-7, and Their Receptors in Knee Joints with Focal Cartilage Lesions. <i>Scientific World Journal, The</i> , 2012, 2012, 1-9.   | 0.8 | 13        |
| 88 | Monitoring live human mesenchymal stromal cell differentiation and subsequent selection using fluorescent RNA-based probes. <i>Scientific Reports</i> , 2016, 6, 26014.   | 1.6 | 13        |
| 89 | Age and "general health" beside fracture classification affect the therapeutic decision for geriatric pelvic ring fractures: a German pelvic injury register study. <i>International Orthopaedics</i> , 2019, 43, 2629-2636.  | 0.9 | 13        |
| 90 | Anteversion Angle Measurement in Suspected Torsional Malalignment of the Femur in 3-Dimensional EOS vs Computed Tomography "A Validation Study. <i>Journal of Arthroplasty</i> , 2021, 36, 379-386.   | 1.5 | 13        |

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|-----|--|-----|-----------|
| 91  | Characterization of rat lung ICAM-1. <i>Inflammation Research</i> , 1998, 47, 308-315.   | 1.6 | 12        |
| 92  | Gastrocnemius Recession Leads to Increased Ankle Motion and Improved Patient Satisfaction After 2 Years of Follow-Up. <i>Journal of Foot and Ankle Surgery</i> , 2017, 56, 589-593.  | 0.5 | 12        |
| 93  | Short versus long intramedullary nails for treatment of intertrochanteric femur fractures (AO 31-A1) Tj ETQq1 1 0.784314 rgBT /Over<br>29, 1823-1831.  | 0.6 | 12        |
| 94  | Interobserver reliability is higher for assessments with 3D software-generated models than with conventional MRI images in the classification of trochlear dysplasia. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2022, 30, 1654-1660.   | 2.3 | 12        |
| 95  | 10-Year Survival Rates After High Tibial Osteotomy Using Angular Stable Internal Plate Fixation: Case Series With Subgroup Analysis of Outcomes After Combined Autologous Chondrocyte Implantation and High Tibial Osteotomy. <i>Orthopaedic Journal of Sports Medicine</i> , 2022, 10, 232596712210780. | 0.8 | 12        |
| 96  | Effectiveness and complications of primary C-clamp stabilization or external fixation for unstable pelvic fractures. <i>Injury</i> , 2019, 50, 1959-1965.  | 0.7 | 11        |
| 97  | The ability of comorbidity indices to predict mortality in an orthopedic setting: a systematic review. <i>Systematic Reviews</i> , 2021, 10, 234.  | 2.5 | 11        |
| 98  | Elevation of Inflammatory Cytokines and Proteins after Intra-Articular Ankle Fracture: A Cross-Sectional Study of 47 Ankle Fracture Patients. <i>Mediators of Inflammation</i> , 2021, 2021, 1-9.  | 1.4 | 10        |
| 99  | Clinical evaluation of a new custom offset shoulder prosthesis for treatment of complex fractures of the proximal humerus. <i>Acta Orthopaedica Belgica</i> , 2006, 72, 387-94.  | 0.1 | 10        |
| 100 | Complication assessment and prevention strategies using midfoot fusion bolt for medial column stabilization in Charcot's osteoarthropathy. <i>Foot</i> , 2016, 29, 36-41.  | 0.4 | 9         |
| 101 | Factors influencing treatment success of negative pressure wound therapy in patients with postoperative infections after Osteosynthetic fracture fixation. <i>BMC Musculoskeletal Disorders</i> , 2017, 18, 247.   | 0.8 | 9         |
| 102 | Prospective clinical trial of patients who underwent ankle arthroscopy with articular diseases to match clinical and radiological scores with intra-articular cytokines. <i>International Orthopaedics</i> , 2015, 39, 1631-1637.  | 0.9 | 8         |
| 103 | Sporting Activity Is Reduced 11 Years After First-Generation Autologous Chondrocyte Implantation in the Knee Joint. <i>American Journal of Sports Medicine</i> , 2017, 45, 2762-2773.  | 1.9 | 8         |
| 104 | Decision-making, therapy, and outcome in lateral compression fractures of the pelvis – analysis of a single center treatment. <i>BMC Musculoskeletal Disorders</i> , 2019, 20, 217.  | 0.8 | 8         |
| 105 | Inverse 3D Printing with Variations of the Strand Width of the Resulting Scaffolds for Bone Replacement. <i>Materials</i> , 2021, 14, 1964.  | 1.3 | 8         |
| 106 | Crosstalk Between Mesenchymal Stromal Cells and Chondrocytes: The Hidden Therapeutic Potential for Cartilage Regeneration. <i>Stem Cell Reviews and Reports</i> , 2021, 17, 1647-1665.   | 1.7 | 8         |
| 107 | Identification of a clinical signature predictive of differentiation fate of human bone marrow stromal cells. <i>Stem Cell Research and Therapy</i> , 2021, 12, 265.   | 2.4 | 8         |
| 108 | The Effect of Collagen-I Coatings of 3D Printed PCL Scaffolds for Bone Replacement on Three Different Cell Types. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 11063.   | 1.3 | 8         |



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|-----|--|-----|-----------|
| 109 | Association between intraarticular cytokine levels and clinical parameters of osteochondritis dissecans in the ankle. <i>BMC Musculoskeletal Disorders</i> , 2014, 15, 169.  | 0.8 | 7         |
| 110 | Prospective Clinical Trial for Septic Arthritis: Cartilage Degradation and Inflammation Are Associated with Upregulation of Cartilage Metabolites. <i>Mediators of Inflammation</i> , 2016, 2016, 1-7.   | 1.4 | 7         |
| 111 | Prevention of bone disease and early detection of impending fractures in multiple myeloma patients can reduce morbidity and mortality: the necessity of interdisciplinary state-of-the-art treatment. <i>Haematologica</i> , 2020, 105, 859-861.                                     | 1.7 | 7         |
| 112 | Histomorphological Alterations of Human Anterior Cruciate Ligament Grafts During Mid-Term and Long-Term Remodeling. <i>Orthopaedic Surgery</i> , 2021, 13, 314-320.  | 0.7 | 7         |
| 113 | Conservative and Surgical Treatment of Talar Fractures: A Systematic Review and Meta-Analysis on Clinical Outcomes and Complications. <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 8274.   | 1.2 | 7         |
| 114 | Influence of 3D Printing Parameters on the Mechanical Stability of PCL Scaffolds and the Proliferation Behavior of Bone Cells. <i>Materials</i> , 2022, 15, 2091.  | 1.3 | 7         |
| 115 | Post-Transcriptional Regulation of Osteoblastic Platelet-Derived Growth Factor Receptor-Alpha Expression by Co-Cultured Primary Endothelial Cells. <i>Cells Tissues Organs</i> , 2010, 192, 28-38.   | 1.3 | 6         |
| 116 | Correlation of Biomechanical Alterations under Gonarthrosis between Overlying Menisci and Articular Cartilage. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 8673.   | 1.3 | 6         |
| 117 | Efficacy and safety of iloprost in trauma patients with haemorrhagic shock-induced endotheliopathy: Protocol for the multicentre randomized, placebo-controlled, blinded, investigator-initiated shine trauma trial. <i>Acta Anaesthesiologica Scandinavica</i> , 2021, 65, 551-557. | 0.7 | 6         |
| 118 | Mechanical Properties of the Composite Material consisting of $\beta$ -TCP and Alginate-Di-Aldehyde-Gelatin Hydrogel and Its Degradation Behavior. <i>Materials</i> , 2021, 14, 1303.  | 1.3 | 6         |
| 119 | Laparoscopic Splenic Salvage in Delayed Rupture by Application of Fibrin Glue in a 10-Year-Old Boy. <i>Journal of Trauma</i> , 2005, 58, 628-630.  | 2.3 | 5         |
| 120 | Clinical Trial and In Vitro Study for the Role of Cartilage and Synovia in Acute Articular Infection. <i>Mediators of Inflammation</i> , 2015, 2015, 1-9.  | 1.4 | 5         |
| 121 | Effect of PTH treatment on bone healing in insufficiency fractures of the pelvis: a systematic review. <i>EFORT Open Reviews</i> , 2021, 6, 9-14.  | 1.8 | 5         |
| 122 | Elevation of Pro-Inflammatory Cytokine Levels Following Intra-Articular Fractures: A Systematic Review. <i>Cells</i> , 2021, 10, 902.  | 1.8 | 5         |
| 123 | Association of acute inflammatory cytokines, fracture malreduction, and functional outcome 12 months after intra-articular ankle fracture: a prospective cohort study of 46 patients with ankle fractures. <i>Journal of Orthopaedic Surgery and Research</i> , 2021, 16, 338.       | 0.9 | 5         |
| 124 | The use of negative pressure wound therapy for fracture-related infections following internal osteosynthesis of the extremity: A systematic review. <i>Journal of Clinical Orthopaedics and Trauma</i> , 2022, 24, 101710.   | 0.6 | 5         |
| 125 | Protein Expression of AEBP1, MCM4, and FABP4 Differentiate Osteogenic, Adipogenic, and Mesenchymal Stromal Stem Cells. <i>International Journal of Molecular Sciences</i> , 2022, 23, 2568.  | 1.8 | 5         |
| 126 | Correlation of synovial cytokine expression with quality of cells used for autologous chondrocyte implantation in human knees. <i>European Journal of Orthopaedic Surgery and Traumatology</i> , 2014, 24, 1563-1570.  | 0.6 | 4         |



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|-----|--|-----|-----------|
| 127 | The effect of a heel-unloading orthosis in short-term treatment of calcaneus fractures on physical function, quality of life and return to work – study protocol for a randomized controlled trial. <i>Trials</i> , 2019, 20, 324.   | 0.7 | 4         |
| 128 | Interdisciplinary approach to multiple myeloma – time to diagnosis and warning signs. <i>Leukemia and Lymphoma</i> , 2021, 62, 891-898.  | 0.6 | 4         |
| 129 | A Proinflammatory, Degenerative Organ Culture Model to Simulate Early-Stage Intervertebral Disc Disease.. <i>Journal of Visualized Experiments</i> , 2021, , .   | 0.2 | 4         |
| 130 | Clinicopathologic characteristics, metastasis-free survival, and skeletal-related events in 628 patients with skeletal metastases in a tertiary orthopedic and trauma center. <i>World Journal of Surgical Oncology</i> , 2021, 19, 62.  | 0.8 | 4         |
| 131 | Architecture-Promoted Biomechanical Performance-Tuning of Tissue-Engineered Constructs for Biological Intervertebral Disc Replacement. <i>Materials</i> , 2021, 14, 2692.  | 1.3 | 4         |
| 132 | Laxity measurement of internal knee rotation after primary anterior cruciate ligament rupture versus rerupture. <i>Archives of Orthopaedic and Trauma Surgery</i> , 2021, , 1.   | 1.3 | 4         |
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