

Matthias Aurich

List of Publications by Year in descending order

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47
papers

1,453
citations

331670

21
h-index

330143

37
g-index

73
all docs

73
docs citations

73
times ranked

1284
citing authors

#	ARTICLE	IF	CITATIONS
1	Autologous chondrocyte implantation (ACI) for cartilage defects of the knee: A guideline by the working group "Clinical Tissue Regeneration" of the German Society of Orthopaedics and Trauma (DGOU). Knee, 2016, 23, 426-435.	1.6	163
2	Diffraction-enhanced X-ray imaging of articular cartilage. Osteoarthritis and Cartilage, 2002, 10, 163-171.	1.3	146
3	Arthroscopic Treatment of Osteochondral Lesions of the Ankle With Matrix-Associated Chondrocyte Implantation. American Journal of Sports Medicine, 2011, 39, 311-319.	4.2	116
4	Differential matrix degradation and turnover in early cartilage lesions of human knee and ankle joints. Arthritis and Rheumatism, 2005, 52, 112-119.	6.7	92
5	Proliferative remodeling of the spatial organization of human superficial chondrocytes distant from focal early osteoarthritis. Arthritis and Rheumatism, 2010, 62, 489-498.	6.7	59
6	Matrix homeostasis in aging normal human ankle cartilage. Arthritis and Rheumatism, 2002, 46, 2903-2910.	6.7	51
7	X-Ray Diffraction of the Molecular Substructure of Human Articular Cartilage. Connective Tissue Research, 2003, 44, 201-207.	2.3	49
8	Solitary fibrous tumor in the thigh: review of the literature. Journal of Cancer Research and Clinical Oncology, 2006, 132, 69-75.	2.5	38
9	Qualitative evaluation of titanium implant integration into bone by diffraction enhanced imaging. Physics in Medicine and Biology, 2006, 51, 1313-1324.	3.0	38
10	Histological and cell biological characterization of dissected cartilage fragments in human osteochondritis dissecans of the femoral condyle. Archives of Orthopaedic and Trauma Surgery, 2006, 126, 606-614.	2.4	33
11	Collagen and proteoglycan turnover in focally damaged human ankle cartilage: Evidence for a generalized response and active matrix remodeling across the entire joint surface. Arthritis and Rheumatism, 2006, 54, 244-252.	6.7	30
12	Expression of bioactive bone morphogenetic proteins in the subacromial bursa of patients with chronic degeneration of the rotator cuff. Arthritis Research and Therapy, 2006, 8, R92.	3.5	28
13	Onset of preclinical osteoarthritis: The angular spatial organization permits early diagnosis. Arthritis and Rheumatism, 2011, 63, 1637-1647.	6.7	28
14	Comminuted intraarticular fractures of the tibial plateau lead to posttraumatic osteoarthritis of the knee: Current treatment review. Asian Journal of Surgery, 2018, 41, 99-105.	0.4	27
15	Induced Redifferentiation of Human Chondrocytes from Articular Cartilage Lesion in Alginate Bead Culture After Monolayer Dedifferentiation: An Alternative Cell Source for Cell-Based Therapies?. Tissue Engineering - Part A, 2018, 24, 275-286.	3.1	26
16	Options and limitations of joint cartilage imaging: DEI in comparison to MRI and sonography. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2005, 548, 47-53.	1.6	23
17	Stress-vs-time signals allow the prediction of structurally catastrophic events during fracturing of immature cartilage and predetermine the biomechanical, biochemical, and structural impairment. Journal of Structural Biology, 2013, 183, 501-511.	2.8	21
18	Reliability of diffraction enhanced imaging for assessment of cartilage lesions, ex vivo. Osteoarthritis and Cartilage, 2005, 13, 187-197.	1.3	19

#	ARTICLE	IF	CITATIONS
19	Concomitant ankle instability has a negative impact on the quality of life in patients with osteochondral lesions of the talus: data from the German Cartilage Registry (KnorpelRegister DGOU). Knee Surgery, Sports Traumatology, Arthroscopy, 2020, 28, 3339-3346.	4.2	19
20	Human osteoarthritic chondrons outnumber patient- and joint-matched chondrocytes in hydrogel culture- Future application in autologous cell-based OA cartilage repair?. Journal of Tissue Engineering and Regenerative Medicine, 2018, 12, e1206-e1220.	2.7	16
21	Empfehlungen der AG Klinische Geweberegeneration zur Behandlung von Knorpelschäden am Kniegelenk. Zeitschrift Fur Orthopadie Und Unfallchirurgie, 2023, 161, 57-64.	0.7	16
22	Human osteochondritis dissecans fragment-derived chondrocyte characteristics ex vivo, after monolayer expansion-induced de-differentiation, and after re-differentiation in alginate bead culture. BMC Musculoskeletal Disorders, 2018, 19, 168.	1.9	14
23	Parameters influencing complaints and joint function in patients with osteochondral lesions of the ankle- an investigation based on data from the German Cartilage Registry (KnorpelRegister DGOU). Archives of Orthopaedic and Trauma Surgery, 2017, 137, 367-373.	2.4	13
24	Is there a correlation between biophotonical, biochemical, histological, and visual changes in the cartilage of osteoarthritic knee-joints?. Muscles, Ligaments and Tendons Journal, 2013, 3, 157-65.	0.3	13
25	Percutaneous navigated screw fixation of glenoid fractures. Archives of Orthopaedic and Trauma Surgery, 2013, 133, 627-633.	2.4	11
26	Reconstruction of the coracoacromial ligament during a modified Latarjet procedure: a case series. BMC Musculoskeletal Disorders, 2015, 16, 238.	1.9	11
27	Differences in injury pattern and prevalence of cartilage lesions in knee and ankle joints: a retrospective cohort study. Orthopedic Reviews, 2014, 6, 5611.	1.3	9
28	Stimulation of renal amino acid reabsorption after treatment with triiodothyronine or dexamethasone in amino acid loaded rats. Amino Acids, 1997, 12, 265-279.	2.7	8
29	Differences in type II collagen turnover of osteoarthritic human knee and ankle joints. International Orthopaedics, 2017, 41, 999-1005.	1.9	8
30	Pain in Osteochondral Lesions of the Ankle - an Investigation Based on Data from the German Cartilage Registry (KnorpelRegister DGOU). Zeitschrift Fur Orthopadie Und Unfallchirurgie, 2018, 156, 160-167.	0.7	8
31	X-Ray Diffraction of the Molecular Substructure of Human Articular Cartilage. Connective Tissue Research, 2003, 44, 201-207.	2.3	8
32	Tissue engineering-relevant characteristics of ex vivo and monolayer-expanded chondrocytes from the notch versus trochlea of human knee joints. International Orthopaedics, 2017, 41, 2327-2335.	1.9	7
33	Osteoarthritis-Induced Metabolic Alterations of Human Hip Chondrocytes. Biomedicines, 2022, 10, 1349.	3.2	7
34	Influence of the Medial Malleolus Osteotomy on the Clinical Outcome of M-BMS + I/III Collagen Scaffold in Medial Talar Osteochondral Lesion (German Cartilage Register/Knorpelregister DGOU). Cartilage, 2021, 13, 1373S-1379S.	2.7	5
35	Preexisting and treated concomitant ankle instability does not compromise patient-reported outcomes of solitary osteochondral lesions of the talus treated with matrix-induced bone marrow stimulation in the first postoperative year: data from the German Cartilage Registry (KnorpelRegister DGOU). Knee Surgery, Sports Traumatology, Arthroscopy, 2022, 30, 1187-1196.	4.2	4
36	Fixation of Displaced Avulsion Fracture of the Anterior Superior Iliac Spine (ASIS) after Bone Graft Harvesting Using Anatomic Low-Profile Locking Plate: Case Report and Surgical Technique. Zeitschrift Fur Orthopadie Und Unfallchirurgie, 2021, 159, 681-686.	0.7	4

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37	BMP-2 shows characteristic extracellular patterns in osteoarthritic cartilage: a preliminary report. <i>GMS Interdisciplinary Plastic and Reconstructive Surgery DGPW</i> , 2013, 2, Doc09.	0.1	4
38	A Modified Lateral Approach for Total Knee Replacement in Type 2 Valgus Deformity. <i>Orthopedics</i> , 2017, 40, 313-316.	1.1	4
39	Descriptive analysis and short-term follow-up clinical results of osteochondral lesions of the distal tibia based on data of the German Cartilage Register (Knorpelregister® DGOU). <i>Archives of Orthopaedic and Trauma Surgery</i> , 2023, 143, 809-815.	2.4	3
40	Chance and limit of imaging of articular cartilage in vitro in healthy and arthritic joints: DEI (diffraction enhanced imaging) in comparison with MRI, CT, and ultrasound. , 2005, , .		2
41	Clinical outcome and return to sports activity after surgical treatment for recurrent shoulder instability with a modified Latarjet procedure. <i>Orthopaedics and Traumatology: Surgery and Research</i> , 2021, 107, 102977.	2.0	2
42	Iatrogenic Damage to Neurovascular and Soft Tissue Structures During Lateral Release of Hallux Valgus: A Comparative Anatomical Study of Minimally Invasive Versus Open Surgical Techniques. <i>Journal of Foot and Ankle Surgery</i> , 2021, , .	1.0	1
43	Das "Modul Sprunggelenk" des "KnorpelRegisterDGOU" zur Erfassung der Behandlungsergebnisse nach operativer und nicht-operativer Therapie von Knorpelschäden im Sprunggelenk. <i>Fuss Und Sprunggelenk</i> , 2016, 14, 155-158.	0.0	0
44	Anatomical Study of Sinus Tarsi-Based Lateral Lengthening Calcaneal Osteotomy. <i>Foot and Ankle International</i> , 2021, , 107110072110413.	2.3	0
45	Paresis of the Peroneal Nerve: A Rare But Severe Long-term Complication of Polyethylene Wear in Knee Arthroplasty. <i>Orthopedics</i> , 2017, 40, e538-e540.	1.1	0
46	Reconstruction of the Coracoacromial Ligament during a Modified Latarjet Procedure for the Treatment of Shoulder Instability: Clinical Outcome at Minimum 5 Years Follow-Up. <i>Zeitschrift Fur Orthopadie Und Unfallchirurgie</i> , 2020, 160, .	0.7	0
47	The Correction Potential of the Lateral Release of the Hallux Valgus: A Comparative Anatomical Study of Minimally Invasive Versus Open Surgical Technique Using a Dorsal Approach. <i>Indian Journal of Orthopaedics</i> , 2022, 56, 887-894.	1.1	0