

Matthias Aurich

List of Publications by Year in descending order

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Version: 2024-02-01

47
papers

1,453
citations

331538

21
h-index

330025

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). <i>Knee</i> , 2016, 23, 426-435.	0.8	163
2	Diffraction-enhanced X-ray imaging of articular cartilage. <i>Osteoarthritis and Cartilage</i> , 2002, 10, 163-171.	0.6	146
3	Arthroscopic Treatment of Osteochondral Lesions of the Ankle With Matrix-Associated Chondrocyte Implantation. <i>American Journal of Sports Medicine</i> , 2011, 39, 311-319.	1.9	116
4	Differential matrix degradation and turnover in early cartilage lesions of human knee and ankle joints. <i>Arthritis and Rheumatism</i> , 2005, 52, 112-119.	6.7	92
5	Proliferative remodeling of the spatial organization of human superficial chondrocytes distant from focal early osteoarthritis. <i>Arthritis and Rheumatism</i> , 2010, 62, 489-498.	6.7	59
6	Matrix homeostasis in aging normal human ankle cartilage. <i>Arthritis and Rheumatism</i> , 2002, 46, 2903-2910.	6.7	51
7	X-Ray Diffraction of the Molecular Substructure of Human Articular Cartilage. <i>Connective Tissue Research</i> , 2003, 44, 201-207.	1.1	49
8	Solitary fibrous tumor in the thigh: review of the literature. <i>Journal of Cancer Research and Clinical Oncology</i> , 2006, 132, 69-75.	1.2	38
9	Qualitative evaluation of titanium implant integration into bone by diffraction enhanced imaging. <i>Physics in Medicine and Biology</i> , 2006, 51, 1313-1324.	1.6	38
10	Histological and cell biological characterization of dissected cartilage fragments in human osteochondritis dissecans of the femoral condyle. <i>Archives of Orthopaedic and Trauma Surgery</i> , 2006, 126, 606-614.	1.3	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. <i>Arthritis and Rheumatism</i> , 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. <i>Arthritis Research and Therapy</i> , 2006, 8, R92.	1.6	28
13	Onset of preclinical osteoarthritis: The angular spatial organization permits early diagnosis. <i>Arthritis and Rheumatism</i> , 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. <i>Asian Journal of Surgery</i> , 2018, 41, 99-105.	0.2	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?. <i>Tissue Engineering - Part A</i> , 2018, 24, 275-286.	1.6	26
16	Options and limitations of joint cartilage imaging: DEI in comparison to MRI and sonography. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2005, 548, 47-53.	0.7	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. <i>Journal of Structural Biology</i> , 2013, 183, 501-511.	1.3	21
18	Reliability of diffraction enhanced imaging for assessment of cartilage lesions, ex vivo. <i>Osteoarthritis and Cartilage</i> , 2005, 13, 187-197.	0.6	19

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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). <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2020, 28, 3339-3346.	2.3	19
20	Human osteoarthritic chondrons outnumber patient- and joint-matched chondrocytes in hydrogel culture- Future application in autologous cell-based OA cartilage repair?. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2018, 12, e1206-e1220.	1.3	16
21	Empfehlungen der AG Klinische Geweberegeneration zur Behandlung von Knorpelschäden am Kniegelenk. <i>Zeitschrift Fur Orthopadie Und Unfallchirurgie</i> , 2023, 161, 57-64.	0.4	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. <i>BMC Musculoskeletal Disorders</i> , 2018, 19, 168.	0.8	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). <i>Archives of Orthopaedic and Trauma Surgery</i> , 2017, 137, 367-373.	1.3	13
24	Is there a correlation between biophotonical, biochemical, histological, and visual changes in the cartilage of osteoarthritic knee-joints?. <i>Muscles, Ligaments and Tendons Journal</i> , 2013, 3, 157-65.	0.1	13
25	Percutaneous navigated screw fixation of glenoid fractures. <i>Archives of Orthopaedic and Trauma Surgery</i> , 2013, 133, 627-633.	1.3	11
26	Reconstruction of the coracoacromial ligament during a modified Latarjet procedure: a case series. <i>BMC Musculoskeletal Disorders</i> , 2015, 16, 238.	0.8	11
27	Differences in injury pattern and prevalence of cartilage lesions in knee and ankle joints: a retrospective cohort study. <i>Orthopedic Reviews</i> , 2014, 6, 5611.	0.3	9
28	Stimulation of renal amino acid reabsorption after treatment with triiodothyronine or dexamethasone in amino acid loaded rats. <i>Amino Acids</i> , 1997, 12, 265-279.	1.2	8
29	Differences in type II collagen turnover of osteoarthritic human knee and ankle joints. <i>International Orthopaedics</i> , 2017, 41, 999-1005.	0.9	8
30	Pain in Osteochondral Lesions of the Ankle - an Investigation Based on Data from the German Cartilage Registry (KnorpelRegister DGOU). <i>Zeitschrift Fur Orthopadie Und Unfallchirurgie</i> , 2018, 156, 160-167.	0.4	8
31	X-Ray Diffraction of the Molecular Substructure of Human Articular Cartilage. <i>Connective Tissue Research</i> , 2003, 44, 201-207.	1.1	8
32	Tissue engineering-relevant characteristics of ex vivo and monolayer-expanded chondrocytes from the notch versus trochlea of human knee joints. <i>International Orthopaedics</i> , 2017, 41, 2327-2335.	0.9	7
33	Osteoarthritis-Induced Metabolic Alterations of Human Hip Chondrocytes. <i>Biomedicines</i> , 2022, 10, 1349.	1.4	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). <i>Cartilage</i> , 2021, 13, 1373S-1379S.	1.4	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). <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2022, 30, 1187-1196.	2.3	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. <i>Zeitschrift Fur Orthopadie Und Unfallchirurgie</i> , 2021, 159, 681-686.	0.4	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.	0.5	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.	1.3	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.	0.9	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, , .	0.5	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.	0.1	0
44	Anatomical Study of Sinus Tarsi-Based Lateral Lengthening Calcaneal Osteotomy. <i>Foot and Ankle International</i> , 2021, , 107110072110413.	1.1	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.	0.5	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, .	0.4	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.	0.5	0