

Maximilian Rudert

List of Publications by Year in descending order

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Version: 2024-02-01

101
papers

2,449
citations

279701

23
h-index

233338

45
g-index

114
all docs

114
docs citations

114
times ranked

3207
citing authors

#	ARTICLE	IF	CITATIONS
1	How smart do biomaterials need to be? A translational science and clinical point of view. <i>Advanced Drug Delivery Reviews</i> , 2013, 65, 581-603.	6.6	429
2	Reduced postoperative pain in total hip arthroplasty after minimal-invasive anterior approach. <i>International Orthopaedics</i> , 2012, 36, 491-498.	0.9	149
3	The projected volume of primary and revision total knee arthroplasty will place an immense burden on future health care systems over the next 30 years. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2021, 29, 3287-3298.	2.3	138
4	Primary Malignant Sarcomas of the Heart and Great Vessels in Adult Patients – A Single-Center Experience. <i>Oncologist</i> , 2007, 12, 1134-1142.	1.9	136
5	A Prospective Multicenter Study on the Outcome of Type I Collagen Hydrogel-Based Autologous Chondrocyte Implantation (CaReS) for the Repair of Articular Cartilage Defects in the Knee. <i>American Journal of Sports Medicine</i> , 2011, 39, 2558-2565.	1.9	135
6	Stem cell- and growth factor-based regenerative therapies for avascular necrosis of the femoral head. <i>Stem Cell Research and Therapy</i> , 2012, 3, 7.	2.4	83
7	Interactions between Muscle and Bone – Where Physics Meets Biology. <i>Biomolecules</i> , 2020, 10, 432.	1.8	79
8	Indian hedgehog gene transfer is a chondrogenic inducer of human mesenchymal stem cells. <i>Arthritis Research and Therapy</i> , 2012, 14, R168.	1.6	56
9	¹⁸ F-Fluorodeoxyglucose positron emission tomography/computed tomography for the detection of recurrent bone and soft tissue sarcoma. <i>Cancer</i> , 2013, 119, 1227-1234.	2.0	44
10	High Prevalence of Vitamin D Deficiency in Patients With Bone Marrow Edema Syndrome of the Foot and Ankle. <i>Foot and Ankle International</i> , 2017, 38, 760-766.	1.1	42
11	A prospective randomized comparison of the minimally invasive direct anterior and the transgluteal approach for primary total hip arthroplasty. <i>BMC Musculoskeletal Disorders</i> , 2018, 19, 241.	0.8	40
12	Direct bone morphogenetic protein 2 and Indian hedgehog gene transfer for articular cartilage repair using bone marrow coagulates. <i>Osteoarthritis and Cartilage</i> , 2015, 23, 433-442.	0.6	39
13	Customised osteotomy guides and endoprosthetic reconstruction for periacetabular tumours. <i>International Orthopaedics</i> , 2014, 38, 1435-42.	0.9	38
14	Comparative retrospective study of the direct anterior and transgluteal approaches for primary total hip arthroplasty. <i>International Orthopaedics</i> , 2015, 39, 2309-2313.	0.9	37
15	How Frequent Is Rotational Mismatch Within 0°±10° in Kinematically Aligned Total Knee Arthroplasty?. <i>Orthopedics</i> , 2013, 36, e1515-20.	0.5	35
16	Outcome of a modular tapered uncemented titanium femoral stem in revision hip arthroplasty. <i>International Orthopaedics</i> , 2015, 39, 1709-1713.	0.9	32
17	Synergistic effect of Indian hedgehog and bone morphogenetic protein-2 gene transfer to increase the osteogenic potential of human mesenchymal stem cells. <i>Stem Cell Research and Therapy</i> , 2013, 4, 105.	2.4	30
18	Acetabular defect classification in times of 3D imaging and patient-specific treatment protocols. <i>Der Orthopade</i> , 2017, 46, 168-178.	0.7	29

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19	Desmoplastic Fibroma: A Case Report with Three Years of Clinical and Radiographic Observation and Review of the Literature. <i>The Open Orthopaedics Journal</i> , 2013, 8, 40-46.	0.1	29
20	Investigation of Migration and Differentiation of Human Mesenchymal Stem Cells on Five-Layered Collagenous Electrospun Scaffold Mimicking Native Cartilage Structure. <i>Advanced Healthcare Materials</i> , 2016, 5, 2191-2198.	3.9	27
21	Tissue engineering and regenerative medicine in musculoskeletal oncology. <i>Cancer and Metastasis Reviews</i> , 2016, 35, 475-487.	2.7	25
22	In situ guided tissue regeneration in musculoskeletal diseases and aging. <i>Cell and Tissue Research</i> , 2012, 347, 725-735.	1.5	24
23	Can Bone Tissue Engineering Contribute to Therapy Concepts after Resection of Musculoskeletal Sarcoma?. <i>Sarcoma</i> , 2013, 2013, 1-10.	0.7	23
24	Bicompartmental individualized knee replacement. <i>Operative Orthopädie Und Traumatologie</i> , 2017, 29, 51-58.	1.0	21
25	Combinations of Hydrogels and Mesenchymal Stromal Cells (MSCs) for Cartilage Tissue Engineering—A Review of the Literature. <i>Gels</i> , 2021, 7, 217.	2.1	21
26	Platelet lysate outperforms FCS and human serum for co-culture of primary human macrophages and hMSCs. <i>Scientific Reports</i> , 2019, 9, 3533.	1.6	20
27	Biphasic bone substitute and fibrin sealant for treatment of benign bone tumours and tumour-like lesions. <i>International Orthopaedics</i> , 2012, 36, 139-148.	0.9	19
28	The Wuerzburg procedure: the tensor fasciae latae perforator is a reliable anatomical landmark to clearly identify the Hueter interval when using the minimally-invasive direct anterior approach to the hip joint. <i>BMC Musculoskeletal Disorders</i> , 2016, 17, 57.	0.8	19
29	Attachment to laminin-111 facilitates transforming growth factor β -induced expression of matrix metalloproteinase-3 in synovial fibroblasts. <i>Annals of the Rheumatic Diseases</i> , 2006, 66, 446-451.	0.5	18
30	Cytotoxic effect and tissue penetration of phenol for adjuvant treatment of giant cell tumours. <i>Oncology Letters</i> , 2013, 5, 1595-1598.	0.8	18
31	Comparison of Elution Characteristics and Compressive Strength of Biantibiotic-Loaded PMMA Bone Cement for Spacers: Copal [®] Spacem with Gentamicin and Vancomycin versus Palacos [®] R+G with Vancomycin. <i>BioMed Research International</i> , 2018, 2018, 1-5.	0.9	17
32	Synovial Fluid Aspiration Should Not Be Routinely Performed during the Two-Stage Exchange of the Knee. <i>BioMed Research International</i> , 2018, 2018, 1-8.	0.9	17
33	Total hip replacement in developmental dysplasia using an oval-shaped cementless press-fit cup. <i>International Orthopaedics</i> , 2012, 36, 1355-1361.	0.9	16
34	Evaluation of Preclinical Models for the Testing of Bone Tissue-Engineered Constructs. <i>Tissue Engineering - Part C: Methods</i> , 2020, 26, 107-117.	1.1	16
35	Loading with vancomycin does not decrease gentamicin elution in gentamicin premixed bone cement. <i>Journal of Materials Science: Materials in Medicine</i> , 2017, 28, 104.	1.7	15
36	Extracellular Matrix-Modified Fiber Scaffolds as a Proadipogenic Mesenchymal Stromal Cell Delivery Platform. <i>ACS Biomaterials Science and Engineering</i> , 2019, 5, 6655-6666.	2.6	15

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37	Modeling of the Human Bone Environment: Mechanical Stimuli Guide Mesenchymal Stem Cellâ€“Extracellular Matrix Interactions. <i>Materials</i> , 2021, 14, 4431.	1.3	15
38	Similar outcomes between two-stage revisions for infection and aseptic hip revisions. <i>International Orthopaedics</i> , 2016, 40, 459-464.	0.9	14
39	Function and activity after minimally invasive total hip arthroplasty compared to a healthy population. <i>International Orthopaedics</i> , 2018, 42, 297-302.	0.9	14
40	Revision knee arthroplasty with rotating hinge systems in patients with gross ligament instability. <i>International Orthopaedics</i> , 2018, 42, 2825-2833.	0.9	14
41	Outcome of a modular headâ€“neck adapter system in revision hip arthroplasty. <i>Archives of Orthopaedic and Trauma Surgery</i> , 2015, 135, 1469-1474.	1.3	13
42	Long-term outcome of anterior cruciate ligament tear without reconstruction: a longitudinal prospective study. <i>International Orthopaedics</i> , 2016, 40, 2325-2330.	0.9	13
43	Insufficient sensitivity of joint aspiration during the two-stage exchange of the hip with spacers. <i>Journal of Orthopaedic Surgery and Research</i> , 2018, 13, 7.	0.9	13
44	Closed wedge osteotomy in 66 patients for the treatment of moderate to severe hallux valgus. <i>Foot and Ankle Surgery</i> , 2010, 16, 9-14.	0.8	12
45	Outcome of isolated polyethylene tibial insert exchange after primary cemented total knee arthroplasty. <i>International Orthopaedics</i> , 2015, 39, 1093-1097.	0.9	12
46	Vitamin D Deficiency in Patients With Idiopathic and Traumatic Osteochondritis Dissecans of the Talus. <i>Foot and Ankle International</i> , 2019, 40, 1309-1318.	1.1	12
47	Quantitative assessment of acetabular bone defects: A study of 50 computed tomography data sets. <i>PLoS ONE</i> , 2019, 14, e0222511.	1.1	12
48	Is debridement beneficial for focal cartilage defects of the knee: data from the German Cartilage Registry (KnorpelRegister DGOU). <i>Archives of Orthopaedic and Trauma Surgery</i> , 2020, 140, 373-382.	1.3	12
49	Accurate implant fit and leg alignment after cruciate-retaining patient-specific total knee arthroplasty. <i>BMC Musculoskeletal Disorders</i> , 2020, 21, 699.	0.8	11
50	A New Modification of Combining Vacuum Therapy and Brachytherapy in Large Subfascial Soft â€“Tissue Sarcomas of the Extremities. <i>Strahlentherapie Und Onkologie</i> , 2010, 186, 224-228.	1.0	10
51	Case report - calcification of the medial collateral ligament of the knee with simultaneous calcifying tendinitis of the rotator cuff. <i>BMC Musculoskeletal Disorders</i> , 2016, 17, 283.	0.8	10
52	No significant difference in clinical outcome and knee stability between patellar tendon and semitendinosus tendon in anterior cruciate ligament reconstruction. <i>Archives of Orthopaedic and Trauma Surgery</i> , 2016, 136, 521-525.	1.3	10
53	Evaluation of implant fit and frontal plane alignment after bi-compartmental knee arthroplasty using patient-specific instruments and implants. <i>Archives of Medical Science</i> , 2018, 14, 1424-1431.	0.4	10
54	Operation. , 2012, , 161-323.		10

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55	High Prevalence of Vitamin D Deficiency in Patients with Bone Tumors. <i>Cancer Investigation</i> , 2017, 35, 562-568.	0.6	9
56	Similar Outcomes of Two-Stage Revisions for Infection and One-Stage Revisions for Aseptic Revisions of Knee Endoprostheses. <i>Journal of Knee Surgery</i> , 2019, 32, 897-899.	0.9	9
57	Different types of cartilage neotissue fabricated from collagen hydrogels and mesenchymal stromal cells via SOX9, TGFB1 or BMP2 gene transfer. <i>PLoS ONE</i> , 2020, 15, e0237479.	1.1	9
58	Patient-specific cruciate-retaining total knee replacement with individualized implants and instruments (iTTotalâ„¢ CR G2). <i>Operative Orthopädie Und Traumatologie</i> , 2021, 33, 170-180.	1.0	9
59	Die Kirschner-Draht-Spickung der HÄ¼ftkopfeiphyse bei Epiphyseolysis capitis femoris juvenilis. <i>Operative Orthopädie Und Traumatologie</i> , 2007, 19, 345-357.	1.0	8
60	Gorham-Stout syndrome of the shoulder. <i>Sicot-j</i> , 2016, 2, 25.	0.8	8
61	The Mayo conservative hip: complication analysis and management of the first 41 cases performed at a University level 1 department. <i>BMC Musculoskeletal Disorders</i> , 2017, 18, 250.	0.8	8
62	Decellularized human bone as a 3D model to study skeletal progenitor cells in a natural environment. <i>Methods in Cell Biology</i> , 2020, 157, 123-141.	0.5	8
63	Return to sports after hip resurfacing versus total hip arthroplasty: a mid-term case control study. <i>Archives of Orthopaedic and Trauma Surgery</i> , 2020, 140, 957-962.	1.3	8
64	Custom Made Monoflange Acetabular Components for the Treatment of Paprosky Type III Defects. <i>Journal of Personalized Medicine</i> , 2021, 11, 283.	1.1	8
65	The Impact of Total Knee Replacement with a Customized Cruciate-Retaining Implant Design on Patient-Reported and Functional Outcomes. <i>Journal of Personalized Medicine</i> , 2022, 12, 194.	1.1	8
66	Preservation of the naïve features of mesenchymal stromal cells in vitro: Comparison of cell- and bone-derived decellularized extracellular matrix. <i>Journal of Tissue Engineering</i> , 2022, 13, 204173142210744.	2.3	8
67	Does vitamin D deficiency predict tumour malignancy in patients with bone tumours? Data from a multi-center cohort analysis. <i>Journal of Bone Oncology</i> , 2020, 25, 100329.	1.0	7
68	Nail-patella-syndrome in a young patient followed up over 10 years: relevance of the sagittal trochlear septum for patellofemoral pathology. <i>Sicot-j</i> , 2016, 2, 26.	0.8	6
69	Revision Arthroplasty Through the Direct Anterior Approach Using an Asymmetric Acetabular Component. <i>Journal of Clinical Medicine</i> , 2020, 9, 3031.	1.0	6
70	The human arthritic hip joint is a source of mesenchymal stromal cells (MSCs) with extensive multipotent differentiation potential. <i>BMC Musculoskeletal Disorders</i> , 2020, 21, 297.	0.8	6
71	Acetabular Revision With Intramedullary and Extramedullary Iliac Fixation for Pelvic Discontinuity. <i>Journal of Arthroplasty</i> , 2020, 35, 3679-3685.e1.	1.5	6
72	The role of vitamin D and vitamin D deficiency in orthopaedics and traumatologyâ€”a narrative overview of the literature. <i>Annals of Translational Medicine</i> , 2021, 9, 942-942.	0.7	6

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73	Modifiable Individual Risks of Perioperative Blood Transfusions and Acute Postoperative Complications in Total Hip and Knee Arthroplasty. <i>Journal of Personalized Medicine</i> , 2021, 11, 1223.	1.1	6
74	Hibernoma of the Upper Extremity: Complete Case of a Rare but Benign Soft Tissue Tumor. <i>Case Reports in Orthopedics</i> , 2019, 2019, 1-5.	0.1	5
75	Antibiotic elution and compressive strength of gentamicin/vancomycin loaded bone cements are considerably influenced by immersion fluid volume. <i>Journal of Materials Science: Materials in Medicine</i> , 2019, 30, 29.	1.7	5
76	Impact of Tranexamic Acid on Chondrocytes and Osteogenically Differentiated Human Mesenchymal Stromal Cells (hMSCs) In Vitro. <i>Journal of Clinical Medicine</i> , 2020, 9, 3880.	1.0	5
77	Why compromise the patella? Five-year follow-up results of medial patellofemoral ligament reconstruction with soft tissue patellar fixation. <i>International Orthopaedics</i> , 2021, 45, 1493-1500.	0.9	5
78	Effect of Mobilization on the Day of Surgery After Total Hip Arthroplasty in Elderly, Obese, and Severely Diseased Patients. <i>Journal of Arthroplasty</i> , 2021, 36, 3686-3691.	1.5	5
79	Periprosthetic joint infection: Comparison of automated multiplex-PCR Unyvero i60 ITI cartridge system with bacterial culture and real-time PCR. <i>Technology and Health Care</i> , 2022, 30, 1005-1015.	0.5	5
80	Calcinosis Universalis of the Elbow: A Rare Case with Classical Presentation. <i>Case Reports in Orthopedics</i> , 2015, 2015, 1-6.	0.1	4
81	Revision of unicompartamental knee arthroplasty using the in situ referencing technique. <i>Operative Orthopädie Und Traumatologie</i> , 2020, 32, 273-283.	1.0	4
82	Short stem hip arthroplasty via the minimally invasive direct anterior approach. <i>Operative Orthopädie Und Traumatologie</i> , 2021, 33, 288-303.	1.0	4
83	The role of synovial fluid aspiration in shoulder joint infections. <i>BMC Musculoskeletal Disorders</i> , 2022, 23, 390.	0.8	4
84	Surgical technique and clinical outcome of arthroscopic shoulder stabilization via suture anchors using the lasso-loop stitch. <i>Journal of Orthopaedics</i> , 2018, 15, 553-557.	0.6	3
85	Phosphodiesterase 10A Is a Mediator of Osteogenic Differentiation and Mechanotransduction in Bone Marrow-Derived Mesenchymal Stromal Cells. <i>Stem Cells International</i> , 2020, 2020, 1-11.	1.2	3
86	Do not exchange the spacer during staged TKA exchange!. <i>Journal of Orthopaedics</i> , 2021, 23, 41-45.	0.6	3
87	Immune and stem cell compartments of acetabular and femoral bone marrow in hip osteoarthritis patients. <i>Osteoarthritis and Cartilage</i> , 2022, 30, 1116-1129.	0.6	3
88	Therapy-resistant septic olecranon bursitis due to <i>Mycobacterium gordonae</i> . <i>Sicot-j</i> , 2016, 2, 41.	0.8	2
89	The Effect of Antiseptics in the Prophylaxis of Infection in Orthopaedic Surgery. <i>Zeitschrift Fur Orthopädie Und Unfallchirurgie</i> , 2018, 156, 567-573.	0.4	2
90	Revision arthroplasty with rotating hinge systems for total knee arthroplasty instability. <i>Operative Orthopädie Und Traumatologie</i> , 2020, 32, 298-308.	1.0	2

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91	Focal cartilage defects of the lateral compartment do influence the outcome after high tibial valgus osteotomy. <i>Sicot-j</i> , 2021, 7, 44.	0.8	2
92	Total hip arthroplasty in geriatric patients – a single-center experience. <i>Sicot-j</i> , 2022, 8, 12.	0.8	2
93	Taking the Next Step in Personalised Orthopaedic Implantation. <i>Journal of Personalized Medicine</i> , 2022, 12, 365.	1.1	2
94	Acetabular defect management and revision arthroplasty via the direct anterior approach. <i>Operative Orthopaedie Und Traumatologie</i> , 2022, 34, 203-217.	1.0	2
95	A simple technique to seal the medullary canal in cemented revision arthroplasty. <i>European Journal of Orthopaedic Surgery and Traumatology</i> , 2015, 25, 601-602.	0.6	1
96	Two hundred years of orthopaedics in Wuerzburg – one hundred years of the Koenig-Ludwig-Haus. <i>International Orthopaedics</i> , 2016, 40, 1781-1785.	0.9	1
97	Influence of Tranexamic Acid on Elution Characteristics and Compressive Strength of Antibiotic-Loaded PMMA-Bone Cement with Gentamicin. <i>Materials</i> , 2021, 14, 5639.	1.3	1
98	Zementfreie HÄ¼ftendoprothese: Minimalinvasiver direkter vorderer Zugang. <i>Operationstechniken Orthopaedie Unfallchirurgie</i> , 2019, , 1-30.	0.0	1
99	The 3-triangle method preserves the posterior tibial slope during high tibial valgus osteotomy: first preliminary data using a mathematical model. <i>Journal of Experimental Orthopaedics</i> , 2022, 9, 29.	0.8	1
100	Symptomatic loosening of a total knee arthroplasty caused by a tibial chondrosarcoma – a case report. <i>SpringerPlus</i> , 2014, 3, 308.	1.2	0
101	Mesenchymal Stromal Cells (MSCs) Isolated from Various Tissues of the Human Arthritic Knee Joint Possess Similar Multipotent Differentiation Potential. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 2239.	1.3	0