

# Maximilian Rudert

## List of Publications by Year in descending order

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Version: 2024-02-01

101  
papers

2,449  
citations

279487

23  
h-index

233125

45  
g-index

114  
all docs

114  
docs citations

114  
times ranked

3207  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	Preservation of the native 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
4	Total hip arthroplasty in geriatric patients – a single-center experience. <i>Sicot-j</i> , 2022, 8, 12.	0.8	2
5	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
6	Taking the Next Step in Personalised Orthopaedic Implantation. <i>Journal of Personalized Medicine</i> , 2022, 12, 365.	1.1	2
7	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
8	The role of synovial fluid aspiration in shoulder joint infections. <i>BMC Musculoskeletal Disorders</i> , 2022, 23, 390.	0.8	4
9	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
10	Acetabular defect management and revision arthroplasty via the direct anterior approach. <i>Operative Orthopädie Und Traumatologie</i> , 2022, 34, 203-217.	1.0	2
11	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
12	Patient-specific cruciate-retaining total knee replacement with individualized implants and instruments (iTotal, CR G2). <i>Operative Orthopädie Und Traumatologie</i> , 2021, 33, 170-180.	1.0	9
13	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
14	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
15	Do not exchange the spacer during staged TKA exchange!. <i>Journal of Orthopaedics</i> , 2021, 23, 41-45.	0.6	3
16	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
17	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
18	The role of vitamin D and vitamin D deficiency in orthopaedics and traumatology – a narrative overview of the literature. <i>Annals of Translational Medicine</i> , 2021, 9, 942-942.	0.7	6

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19	Short stem hip arthroplasty via the minimally invasive direct anterior approach. <i>Operative Orthopädie Und Traumatologie</i> , 2021, 33, 288-303.	1.0	4
20	Modeling of the Human Bone Environment: Mechanical Stimuli Guide Mesenchymal Stem Cellâ€™s Extracellular Matrix Interactions. <i>Materials</i> , 2021, 14, 4431.	1.3	15
21	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
22	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
23	Combinations of Hydrogels and Mesenchymal Stromal Cells (MSCs) for Cartilage Tissue Engineeringâ€™ A Review of the Literature. <i>Gels</i> , 2021, 7, 217.	2.1	21
24	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
25	Revision Arthroplasty Through the Direct Anterior Approach Using an Asymmetric Acetabular Component. <i>Journal of Clinical Medicine</i> , 2020, 9, 3031.	1.0	6
26	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
27	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
28	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
29	Different types of cartilage neotissue fabricated from collagen hydrogels and mesenchymal stromal cells via SOX9, TGF $\beta$ 1 or BMP2 gene transfer. <i>PLoS ONE</i> , 2020, 15, e0237479.	1.1	9
30	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
31	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
32	Revision arthroplasty with rotating hinge systems for total knee arthroplasty instability. <i>Operative Orthopädie Und Traumatologie</i> , 2020, 32, 298-308.	1.0	2
33	Interactions between Muscle and Boneâ€™ Where Physics Meets Biology. <i>Biomolecules</i> , 2020, 10, 432.	1.8	79
34	Revision of unicompartamental knee arthroplasty using the in situ referencing technique. <i>Operative Orthopädie Und Traumatologie</i> , 2020, 32, 273-283.	1.0	4
35	Acetabular Revision With Intramedullary and Extramedullary Iliac Fixation for Pelvic Discontinuity. <i>Journal of Arthroplasty</i> , 2020, 35, 3679-3685.e1.	1.5	6
36	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

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37	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
38	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
39	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
40	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
41	Quantitative assessment of acetabular bone defects: A study of 50 computed tomography data sets. <i>PLoS ONE</i> , 2019, 14, e0222511.	1.1	12
42	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
43	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
44	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
45	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
46	Zementfreie HÄ¼ftendoprothese: Minimalinvasiver direkter vorderer Zugang. <i>Operationstechniken Orthopädie Unfallchirurgie</i> , 2019, , 1-30.	0.0	1
47	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
48	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
49	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
50	Revision knee arthroplasty with rotating hinge systems in patients with gross ligament instability. <i>International Orthopaedics</i> , 2018, 42, 2825-2833.	0.9	14
51	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
52	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
53	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
54	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

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55	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
56	Acetabular defect classification in times of 3D imaging and patient-specific treatment protocols. <i>Der Orthopade</i> , 2017, 46, 168-178.	0.7	29
57	Bicompartmental individualized knee replacement. <i>Operative Orthopadie Und Traumatologie</i> , 2017, 29, 51-58.	1.0	21
58	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
59	High Prevalence of Vitamin D Deficiency in Patients with Bone Tumors. <i>Cancer Investigation</i> , 2017, 35, 562-568.	0.6	9
60	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
61	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
62	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
63	Gorham-Stout syndrome of the shoulder. <i>Sicot-j</i> , 2016, 2, 25.	0.8	8
64	Therapy-resistant septic olecranon bursitis due to <i>Mycobacterium gordonae</i> . <i>Sicot-j</i> , 2016, 2, 41.	0.8	2
65	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
66	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
67	Tissue engineering and regenerative medicine in musculoskeletal oncology. <i>Cancer and Metastasis Reviews</i> , 2016, 35, 475-487.	2.7	25
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	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
70	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
71	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
72	Similar outcomes between two-stage revisions for infection and aseptic hip revisions. <i>International Orthopaedics</i> , 2016, 40, 459-464.	0.9	14

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73	Calcinosis Universalis of the Elbow: A Rare Case with Classical Presentation. Case Reports in Orthopedics, 2015, 2015, 1-6.	0.1	4
74	Direct bone morphogenetic protein 2 and Indian hedgehog gene transfer for articular cartilage repair using bone marrow coagulates. Osteoarthritis and Cartilage, 2015, 23, 433-442.	0.6	39
75	Outcome of a modular tapered uncemented titanium femoral stem in revision hip arthroplasty. International Orthopaedics, 2015, 39, 1709-1713.	0.9	32
76	A simple technique to seal the medullary canal in cemented revision arthroplasty. European Journal of Orthopaedic Surgery and Traumatology, 2015, 25, 601-602.	0.6	1
77	Comparative retrospective study of the direct anterior and transgluteal approaches for primary total hip arthroplasty. International Orthopaedics, 2015, 39, 2309-2313.	0.9	37
78	Outcome of a modular head-neck adapter system in revision hip arthroplasty. Archives of Orthopaedic and Trauma Surgery, 2015, 135, 1469-1474.	1.3	13
79	Outcome of isolated polyethylene tibial insert exchange after primary cemented total knee arthroplasty. International Orthopaedics, 2015, 39, 1093-1097.	0.9	12
80	Symptomatic loosening of a total knee arthroplasty caused by a tibial chondrosarcoma - a case report. SpringerPlus, 2014, 3, 308.	1.2	0
81	Customised osteotomy guides and endoprosthetic reconstruction for periacetabular tumours. International Orthopaedics, 2014, 38, 1435-42.	0.9	38
82	<sup>18</sup> F-fluorodeoxyglucose positron emission tomography/computed tomography for the detection of recurrent bone and soft tissue sarcoma. Cancer, 2013, 119, 1227-1234.	2.0	44
83	How smart do biomaterials need to be? A translational science and clinical point of view. Advanced Drug Delivery Reviews, 2013, 65, 581-603.	6.6	429
84	Synergistic effect of Indian hedgehog and bone morphogenetic protein-2 gene transfer to increase the osteogenic potential of human mesenchymal stem cells. Stem Cell Research and Therapy, 2013, 4, 105.	2.4	30
85	Can Bone Tissue Engineering Contribute to Therapy Concepts after Resection of Musculoskeletal Sarcoma?. Sarcoma, 2013, 2013, 1-10.	0.7	23
86	How Frequent Is Rotational Mismatch Within 0°±10° in Kinematically Aligned Total Knee Arthroplasty?. Orthopedics, 2013, 36, e1515-20.	0.5	35
87	Desmoplastic Fibroma: A Case Report with Three Years of Clinical and Radiographic Observation and Review of the Literature. The Open Orthopaedics Journal, 2013, 8, 40-46.	0.1	29
88	Cytotoxic effect and tissue penetration of phenol for adjuvant treatment of giant cell tumours. Oncology Letters, 2013, 5, 1595-1598.	0.8	18
89	Stem cell- and growth factor-based regenerative therapies for avascular necrosis of the femoral head. Stem Cell Research and Therapy, 2012, 3, 7.	2.4	83
90	Indian hedgehog gene transfer is a chondrogenic inducer of human mesenchymal stem cells. Arthritis Research and Therapy, 2012, 14, R168.	1.6	56

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91	Total hip replacement in developmental dysplasia using an oval-shaped cementless press-fit cup. International Orthopaedics, 2012, 36, 1355-1361.	0.9	16
92	In situ guided tissue regeneration in musculoskeletal diseases and aging. Cell and Tissue Research, 2012, 347, 725-735.	1.5	24
93	Reduced postoperative pain in total hip arthroplasty after minimal-invasive anterior approach. International Orthopaedics, 2012, 36, 491-498.	0.9	149
94	Biphasic bone substitute and fibrin sealant for treatment of benign bone tumours and tumour-like lesions. International Orthopaedics, 2012, 36, 139-148.	0.9	19
95	Operation. , 2012, , 161-323.		10
96	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. American Journal of Sports Medicine, 2011, 39, 2558-2565.	1.9	135
97	A New Modification of Combining Vacuum Therapy and Brachytherapy in Large Subfascial Soft Tissue Sarcomas of the Extremities. Strahlentherapie Und Onkologie, 2010, 186, 224-228.	1.0	10
98	Closed wedge osteotomy in 66 patients for the treatment of moderate to severe hallux valgus. Foot and Ankle Surgery, 2010, 16, 9-14.	0.8	12
99	Primary Malignant Sarcomas of the Heart and Great Vessels in Adult Patients A Single-Center Experience. Oncologist, 2007, 12, 1134-1142.	1.9	136
100	Die Kirschner-Draht-Spickung der H4ftkopfepiphyse bei Epiphyseolysis capitis femoris juvenilis. Operative Orthopadie Und Traumatologie, 2007, 19, 345-357.	1.0	8
101	Attachment to laminin-111 facilitates transforming growth factor $\hat{A}$ -induced expression of matrix metalloproteinase-3 in synovial fibroblasts. Annals of the Rheumatic Diseases, 2006, 66, 446-451.	0.5	18