

# Carsten Perka

## List of Publications by Year in descending order

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Version: 2024-02-01

390  
papers

13,695  
citations

20817

60  
h-index

43889

91  
g-index

488  
all docs

488  
docs citations

488  
times ranked

12178  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Prospective, Randomized Study of Computer-Assisted and Conventional Total Knee Arthroplasty. <i>Journal of Bone and Joint Surgery - Series A</i> , 2007, 89, 236-243.	3.0	382
2	The Early Fracture Hematoma and Its Potential Role in Fracture Healing. <i>Tissue Engineering - Part B: Reviews</i> , 2010, 16, 427-434.	4.8	316
3	Current Failure Mechanisms After Knee Arthroplasty Have Changed: Polyethylene Wear Is Less Common in Revision Surgery. <i>Journal of Bone and Joint Surgery - Series A</i> , 2015, 97, 715-720.	3.0	236
4	Segmental bone repair by tissue-engineered periosteal cell transplants with bioresorbable fleece and fibrin scaffolds in rabbits. <i>Biomaterials</i> , 2000, 21, 1145-1153.	11.4	223
5	Proposal for a histopathological consensus classification of the periprosthetic interface membrane. <i>Journal of Clinical Pathology</i> , 2006, 59, 591-597.	2.0	216
6	Inflammatory phase of bone healing initiates the regenerative healing cascade. <i>Cell and Tissue Research</i> , 2012, 347, 567-573.	2.9	215
7	Insights into Mesenchymal Stem Cell Aging: Involvement of Antioxidant Defense and Actin Cytoskeleton. <i>Stem Cells</i> , 2009, 27, 1288-1297.	3.2	203
8	CharitÄ© total disc replacementâ€™ clinical and radiographical results after an average follow-up of 17 years. <i>European Spine Journal</i> , 2006, 15, 183-195.	2.2	191
9	A unique population of IgG-expressing plasma cells lacking CD19 is enriched in human bone marrow. <i>Blood</i> , 2015, 125, 1739-1748.	1.4	170
10	Human Early Fracture Hematoma Is Characterized by Inflammation and Hypoxia. <i>Clinical Orthopaedics and Related Research</i> , 2011, 469, 3118-3126.	1.5	159
11	Hypoxia Promotes Osteogenesis but Suppresses Adipogenesis of Human Mesenchymal Stromal Cells in a Hypoxia-Inducible Factor-1 Dependent Manner. <i>PLoS ONE</i> , 2012, 7, e46483.	2.5	157
12	Alpha Defensin Lateral Flow Test for Diagnosis of Periprosthetic Joint Infection. <i>Journal of Bone and Joint Surgery - Series A</i> , 2018, 100, 742-750.	3.0	144
13	The Surgical Treatment of the Lumbar Disc Prolapse. <i>Spine</i> , 2005, 30, E109-E114.	2.0	137
14	Varus malalignment has no influence on clinical outcome in midterm follow-up after total knee replacement. <i>Archives of Orthopaedic and Trauma Surgery</i> , 2010, 130, 1487-1491.	2.4	134
15	Initial immune reaction and angiogenesis in bone healing. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2014, 8, 120-130.	2.7	123
16	Differential regulation of blood vessel formation between standard and delayed bone healing. <i>Journal of Orthopaedic Research</i> , 2009, 27, 1133-1140.	2.3	122
17	Reconstruction of segmental defects during revision procedures of the acetabulum with the Burch-Schneider anti-protrusio cage. <i>Journal of Arthroplasty</i> , 2001, 16, 568-574.	3.1	118
18	Matrix-mixed culture: New methodology for chondrocyte culture and preparation of cartilage transplants. , 2000, 49, 305-311.		116

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19	Diagnosis of periprosthetic infection following total hip arthroplasty – evaluation of the diagnostic values of pre- and intraoperative parameters and the associated strategy to preoperatively select patients with a high probability of joint infection. <i>Journal of Orthopaedic Surgery and Research</i> , 2008, 3, 31.	2.3	112
20	Twenty-three neutrophil granulocytes in 10 high-power fields is the best histopathological threshold to differentiate between aseptic and septic endoprosthesis loosening. <i>Histopathology</i> , 2009, 54, 847-853.	2.9	111
21	Clinical performance of lateralized versus non-lateralized reverse shoulder arthroplasty: a prospective randomized study. <i>Journal of Shoulder and Elbow Surgery</i> , 2015, 24, 1397-1404.	2.6	110
22	Matrix Metalloprotease Activity Is an Essential Link Between Mechanical Stimulus and Mesenchymal Stem Cell Behavior. <i>Stem Cells</i> , 2007, 25, 1985-1994.	3.2	104
23	Surgical Management of Severe Spondylolisthesis in Children and Adolescents. <i>Spine</i> , 1997, 22, 2036-2042.	2.0	100
24	Cell therapy to improve regeneration of skeletal muscle injuries. <i>Journal of Cachexia, Sarcopenia and Muscle</i> , 2019, 10, 501-516.	7.3	99
25	The management of necrosis-associated and idiopathic bone-marrow oedema of the proximal femur by intravenous iloprost. <i>Journal of Bone and Joint Surgery: British Volume</i> , 2005, 87-B, 560-564.	3.4	98
26	Bacteriophages as Adjuvant to Antibiotics for the Treatment of Periprosthetic Joint Infection Caused by Multidrug-Resistant <i>Pseudomonas aeruginosa</i> . <i>Antimicrobial Agents and Chemotherapy</i> , 2019, 64, .	3.2	97
27	Synovial fluid multiplex PCR is superior to culture for detection of low-virulent pathogens causing periprosthetic joint infection. <i>Diagnostic Microbiology and Infectious Disease</i> , 2018, 90, 115-119.	1.8	95
28	Developmental Hip Dysplasia Treated with Total Hip Arthroplasty with a Straight Stem and a Threaded Cup. <i>Journal of Bone and Joint Surgery - Series A</i> , 2004, 86, 312-319.	3.0	95
29	Randomized controlled trial of abductor muscle damage in relation to the surgical approach for primary total hip replacement: minimally invasive anterolateral versus modified direct lateral approach. <i>Archives of Orthopaedic and Trauma Surgery</i> , 2011, 131, 179-189.	2.4	93
30	Osteoarthritis synovial fluid activates pro-inflammatory cytokines in primary human chondrocytes. <i>International Orthopaedics</i> , 2013, 37, 145-151.	1.9	93
31	Competitive Sports and the Progression of Spondylolisthesis. <i>Journal of Pediatric Orthopaedics</i> , 1996, 16, 364-369.	1.2	92
32	The Use of Fibrin Beads for Tissue Engineering and Subsequential Transplantation. <i>Tissue Engineering</i> , 2001, 7, 359-361.	4.6	88
33	Joint line elevation in revision TKA leads to increased patellofemoral contact forces. <i>Journal of Orthopaedic Research</i> , 2010, 28, 1-5.	2.3	88
34	Synthetic niche to modulate regenerative potential of MSCs and enhance skeletal muscle regeneration. <i>Biomaterials</i> , 2016, 99, 95-108.	11.4	87
35	Origin and characteristics of haematogenous periprosthetic joint infection. <i>Clinical Microbiology and Infection</i> , 2019, 25, 845-850.	6.0	87
36	The effect of anatomical positional relationships on kinetic parameters after total hip replacement. <i>International Orthopaedics</i> , 2000, 24, 23-27.	1.9	84

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37	Stair climbing is more critical than walking in pre-clinical assessment of primary stability in cementless THA in vitro. <i>Journal of Biomechanics</i> , 2005, 38, 1143-1154.	2.1	84
38	Tissue Distribution and Dependence of Responsiveness of Human Antigen-Specific Memory B Cells. <i>Journal of Immunology</i> , 2014, 192, 3091-3100.	0.8	83
39	Influence of the tourniquet on tibial cement mantle thickness in primary total knee arthroplasty. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2016, 24, 96-101.	4.2	79
40	Effects of Fondaparinux Compared with Dalteparin, Enoxaparin and Unfractionated Heparin on Human Osteoblasts. <i>Calcified Tissue International</i> , 2003, 73, 370-379.	3.1	78
41	Cellular composition of the initial fracture hematoma compared to a muscle hematoma: A study in sheep. <i>Journal of Orthopaedic Research</i> , 2009, 27, 1147-1151.	2.3	78
42	Allogenic versus autologous cancellous bone in lumbar segmental spondylodesis: a randomized prospective study. <i>European Spine Journal</i> , 2009, 18, 687-695.	2.2	77
43	Assessment of Fatty Degeneration of the Gluteal Muscles in Patients With THA Using MRI: Reliability and Accuracy of the Goutallier and Quartile Classification Systems. <i>Journal of Arthroplasty</i> , 2014, 29, 149-153.	3.1	77
44	Influence of age and mechanical stability on bone defect healing: Age reverses mechanical effects. <i>Bone</i> , 2008, 42, 758-764.	2.9	75
45	Mid to long-term results of open acromioclavicular-joint reconstruction using polydioxansulfate cerclage augmentation. <i>Archives of Orthopaedic and Trauma Surgery</i> , 2009, 129, 735-740.	2.4	74
46	Evidence of Reduced Muscle Trauma Through a Minimally Invasive Anterolateral Approach by Means of MRI. <i>Clinical Orthopaedics and Related Research</i> , 2010, 468, 3192-3200.	1.5	74
47	Influences of age and mechanical stability on volume, microstructure, and mineralization of the fracture callus during bone healing: Is osteoclast activity the key to age-related impaired healing?. <i>Bone</i> , 2010, 47, 219-228.	2.9	71
48	Small Improvements in Mechanical Axis Alignment Achieved With MRI versus CT-based Patient-specific Instruments in TKA: A Randomized Clinical Trial. <i>Clinical Orthopaedics and Related Research</i> , 2014, 472, 2913-2922.	1.5	71
49	Stabilisation of periprosthetic fractures with angular stable internal fixation: a report of 13 cases. <i>Archives of Orthopaedic and Trauma Surgery</i> , 2006, 126, 105-110.	2.4	70
50	Validity of Frozen Sections for Analysis of Periprosthetic Loosening Membranes. <i>Clinical Orthopaedics and Related Research</i> , 2010, 468, 762-768.	1.5	70
51	The influence of obesity on perioperative morbidity and mortality in revision total hip arthroplasty. <i>Archives of Orthopaedic and Trauma Surgery</i> , 2000, 120, 267-271.	2.4	69
52	Massive metallosis after revision of a fractured ceramic head onto a metal head. <i>Archives of Orthopaedic and Trauma Surgery</i> , 2003, 123, 48-50.	2.4	67
53	Sex-specific compromised bone healing in female rats might be associated with a decrease in mesenchymal stem cell quantity. <i>Bone</i> , 2009, 45, 1065-1072.	2.9	67
54	Dose-Response Relationship of Mesenchymal Stem Cell Transplantation and Functional Regeneration After Severe Skeletal Muscle Injury in Rats. <i>Tissue Engineering - Part A</i> , 2009, 15, 487-492.	3.1	67

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55	Toward biomimetic materials in bone regeneration: Functional behavior of mesenchymal stem cells on a broad spectrum of extracellular matrix components. <i>Journal of Biomedical Materials Research - Part A</i> , 2010, 95A, 1114-1124.	4.0	67
56	Immunology Guides Skeletal Muscle Regeneration. <i>International Journal of Molecular Sciences</i> , 2018, 19, 835.	4.1	67
57	Dynamic stabilization adjacent to single-level fusion: Part I. Biomechanical effects on lumbar spinal motion. <i>European Spine Journal</i> , 2010, 19, 2171-2180.	2.2	66
58	Hip and Knee Section, Diagnosis, Algorithm: Proceedings of International Consensus on Orthopedic Infections. <i>Journal of Arthroplasty</i> , 2019, 34, S339-S350.	3.1	66
59	Dynamic stabilization adjacent to single-level fusion: Part II. No clinical benefit for asymptomatic, initially degenerated adjacent segments after 6 years follow-up. <i>European Spine Journal</i> , 2010, 19, 2181-2189.	2.2	65
60	Cis - and Trans -Acting Gene Regulation Is Associated with Osteoarthritis. <i>American Journal of Human Genetics</i> , 2006, 78, 793-803.	6.2	64
61	Evaluation of sonicate fluid cultures in comparison to histological analysis of the periprosthetic membrane for the detection of periprosthetic joint infection. <i>International Orthopaedics</i> , 2013, 37, 931-936.	1.9	64
62	Impact of the COVID-19 Pandemic on Orthopaedic and Trauma Surgery in University Hospitals in Germany. <i>Journal of Bone and Joint Surgery - Series A</i> , 2020, 102, e78.	3.0	64
63	Immunological characterization of the early human fracture hematoma. <i>Immunologic Research</i> , 2016, 64, 1195-1206.	2.9	63
64	Lateralized Reverse Shoulder Arthroplasty Maintains Rotational Function of the Remaining Rotator Cuff. <i>Clinical Orthopaedics and Related Research</i> , 2013, 471, 940-946.	1.5	62
65	Influence of particulate and dissociated metal-on-metal hip endoprosthesis wear on mesenchymal stromal cells in vivo and in vitro. <i>Biomaterials</i> , 2016, 98, 31-40.	11.4	62
66	Tuberosity position correlates with fatty infiltration of the rotator cuff after hemiarthroplasty for proximal humeral fractures. <i>Journal of Shoulder and Elbow Surgery</i> , 2009, 18, 431-436.	2.6	61
67	Orthopedic implant-associated infections caused by <i>Cutibacterium</i> spp. – A remaining diagnostic challenge. <i>PLoS ONE</i> , 2018, 13, e0202639.	2.5	60
68	In vitro-cultivation of human periosteum derived cells in bioresorbable polymer-TCP-composites. <i>Biomaterials</i> , 2002, 23, 2303-2310.	11.4	59
69	Matrix engineering for osteogenic differentiation of rabbit periosteal cells using calcium phosphate particles in a three-dimensional fibrin culture. <i>Journal of Biomedical Materials Research Part B</i> , 2002, 59, 690-696.	3.1	58
70	Effect of Electron Beam Irradiation on Biomechanical Properties of Patellar Tendon Allografts in Anterior Cruciate Ligament Reconstruction. <i>American Journal of Sports Medicine</i> , 2010, 38, 1134-1140.	4.2	58
71	Cultivation of porcine cells from the nucleus pulposus in a fibrin/hyaluronic acid matrix. <i>Acta Orthopaedica</i> , 2000, 71, 496-502.	1.4	57
72	Influence of changes in stem positioning on femoral loading after THR using a short-stemmed hip implant. <i>Clinical Biomechanics</i> , 2007, 22, 431-439.	1.2	57

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73	Treatment of stages 2 and 3 giant-cell tumor. Archives of Orthopaedic and Trauma Surgery, 2001, 121, 83-86.	2.4	56
74	Autologous Bone Marrow-Derived Cells Enhance Muscle Strength Following Skeletal Muscle Crush Injury in Rats. Tissue Engineering, 2006, 12, 361-367.	4.6	56
75	MRI findings of gluteus minimus muscle damage in primary total hip arthroplasty and the influence on clinical outcome. Archives of Orthopaedic and Trauma Surgery, 2010, 130, 927-935.	2.4	56
76	Standardized AP radiographs do not provide reliable diagnostic measures for the assessment of acetabular retroversion. Journal of Orthopaedic Research, 2012, 30, 1369-1376.	2.3	56
77	Outcome of hip and knee periprosthetic joint infections caused by pathogens resistant to biofilm-active antibiotics: results from a prospective cohort study. Archives of Orthopaedic and Trauma Surgery, 2018, 138, 635-642.	2.4	56
78	The influence of alignment on the musculo-skeletal loading conditions at the knee. Langenbeck's Archives of Surgery, 2003, 388, 291-297.	1.9	54
79	Gene expression profiling of primary human articular chondrocytes in high-density micromasses reveals patterns of recovery, maintenance, re- and dedifferentiation. Gene, 2010, 462, 8-17.	2.2	54
80	Real time visualization of femoroacetabular impingement and subluxation using 320â€ slice computed tomography. Journal of Orthopaedic Research, 2013, 31, 275-281.	2.3	54
81	Immunomodulatory placentalâ€ expanded, mesenchymal stromal cells improve muscle function following hip arthroplasty. Journal of Cachexia, Sarcopenia and Muscle, 2018, 9, 880-897.	7.3	53
82	Age-related appearance of muscle trauma in primary total hip arthroplasty and the benefit of a minimally invasive approach for patients older than 70Â years. International Orthopaedics, 2011, 35, 165-171.	1.9	52
83	Insight into the Molecular Pathophysiology of Delayed Bone Healing in a Sheep Model. Tissue Engineering - Part A, 2010, 16, 191-199.	3.1	51
84	Degenerative changes of the deltoid muscle have impact on clinical outcome after reversed total shoulder arthroplasty. Archives of Orthopaedic and Trauma Surgery, 2010, 130, 177-183.	2.4	50
85	The influence of transforming growth factor ?1 on mesenchymal cell repair of full-thickness cartilage defects. Journal of Biomedical Materials Research Part B, 2000, 52, 543-552.	3.1	49
86	How much of the PCL is really preserved during the tibial cut?. Knee Surgery, Sports Traumatology, Arthroscopy, 2012, 20, 1083-1086.	4.2	48
87	Metalâ€ Specific Biomaterial Accumulation in Human Periâ€ Implant Bone and Bone Marrow. Advanced Science, 2020, 7, 2000412.	11.2	48
88	Reverse shoulder arthroplasty leads to significant biomechanical changes in the remaining rotator cuff. Journal of Orthopaedic Surgery and Research, 2011, 6, 42.	2.3	47
89	Improved identification of polymicrobial infection in total knee arthroplasty through sonicate fluid cultures. Archives of Orthopaedic and Trauma Surgery, 2015, 135, 1453-1457.	2.4	47
90	In serum veritasâ€ in serum sanitas? Cell non-autonomous aging compromises differentiation and survival of mesenchymal stromal cells via the oxidative stress pathway. Cell Death and Disease, 2013, 4, e970-e970.	6.3	45

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91	A Pronounced Inflammatory Activity Characterizes the Early Fracture Healing Phase in Immunologically Restricted Patients. <i>International Journal of Molecular Sciences</i> , 2017, 18, 583.	4.1	45
92	Time course of skeletal muscle regeneration after severe trauma. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2011, 82, 102-111.	3.3	43
93	The influence of walking speed on kinetic and kinematic parameters in patients with osteoarthritis of the hip using a force-instrumented treadmill and standardised gait speeds. <i>Archives of Orthopaedic and Trauma Surgery</i> , 2003, 123, 278-282.	2.4	42
94	Fractionation of high-dose electron beam irradiation of BPTB grafts provides significantly improved viscoelastic and structural properties compared to standard gamma irradiation. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2011, 19, 1955-1961.	4.2	42
95	Simulation of Cell Differentiation in Fracture Healing: Mechanically Loaded Composite Scaffolds in a Novel Bioreactor System. <i>Tissue Engineering</i> , 2006, 12, 201-208.	4.6	41
96	High cure rate of periprosthetic hip joint infection with multidisciplinary team approach using standardized two-stage exchange. <i>Journal of Orthopaedic Surgery and Research</i> , 2019, 14, 78.	2.3	41
97	Human immune cells' behavior and survival under bioenergetically restricted conditions in an in vitro fracture hematoma model. <i>Cellular and Molecular Immunology</i> , 2013, 10, 151-158.	10.5	40
98	<i>In Vivo</i> Visualization of Locally Transplanted Mesenchymal Stem Cells in the Severely Injured Muscle in Rats. <i>Tissue Engineering - Part A</i> , 2008, 14, 1149-1160.	3.1	39
99	Outcome of short versus long interval in two-stage exchange for periprosthetic joint infection: a prospective cohort study. <i>Archives of Orthopaedic and Trauma Surgery</i> , 2019, 139, 295-303.	2.4	39
100	The Impact of Spinopelvic Mobility on Arthroplasty: Implications for Hip and Spine Surgeons. <i>Journal of Clinical Medicine</i> , 2020, 9, 2569.	2.4	38
101	Tumoral calcinosis revisited: pathophysiology and treatment. <i>Rheumatology International</i> , 2005, 25, 55-59.	3.0	37
102	The association between the sagittal femoral stem alignment and the resulting femoral head centre in total hip arthroplasty. <i>International Orthopaedics</i> , 2011, 35, 981-987.	1.9	37
103	Two-stage operative strategy without local antibiotic treatment for infected hip arthroplasty: clinical and radiological outcome. <i>Archives of Orthopaedic and Trauma Surgery</i> , 2007, 127, 691-697.	2.4	36
104	Arthroscopic treatment of femoroacetabular impingement shows persistent clinical improvement in the mid-term. <i>Archives of Orthopaedic and Trauma Surgery</i> , 2016, 136, 687-691.	2.4	36
105	Is the Enzyme-linked Immunosorbent Assay More Accurate Than the Lateral Flow Alpha Defensin Test for Diagnosing Periprosthetic Joint Infection?. <i>Clinical Orthopaedics and Related Research</i> , 2018, 476, 1645-1654.	1.5	36
106	Clinical application of robotic orthopedic surgery: a bibliometric study. <i>BMC Musculoskeletal Disorders</i> , 2021, 22, 968.	1.9	36
107	Toxicity of antiseptics against chondrocytes: What is best for the cartilage in septic joint surgery?. <i>International Orthopaedics</i> , 2011, 35, 1719-1723.	1.9	34
108	Immunologically restricted patients exhibit a pronounced inflammation and inadequate response to hypoxia in fracture hematomas. <i>Immunologic Research</i> , 2011, 51, 116-122.	2.9	33

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109	Comparison of the non-invasive Nexfin <sup>®</sup> monitor with conventional methods for the measurement of arterial blood pressure in moderate risk orthopaedic surgery patients. <i>Journal of International Medical Research</i> , 2016, 44, 832-843.	1.0	33
110	Inadequacy of Joint Aspiration for Detection of Persistent Periprosthetic Infection During Two-Stage Septic Revision Knee Surgery. <i>Orthopedics</i> , 2017, 40, 231-234.	1.1	33
111	Effect of COX-2 inhibition on tendon-to-bone healing and PGE2 concentration after anterior cruciate ligament reconstruction. <i>European Journal of Medical Research</i> , 2018, 23, 1.	2.2	33
112	The biological and biomechanical effect of different graft tensioning in anterior cruciate ligament reconstruction: an experimental study. <i>Archives of Orthopaedic and Trauma Surgery</i> , 2002, 122, 193-199.	2.4	32
113	Clinical efficacy and compatibility of allogeneic avital tissue transplants sterilized with a peracetic acid/ethanol mixture. <i>Cell and Tissue Banking</i> , 2002, 3, 235-243.	1.1	32
114	Reconstruction of humeral length and centering of the prosthetic head in hemiarthroplasty for proximal humeral fractures. <i>Journal of Shoulder and Elbow Surgery</i> , 2008, 17, 709-714.	2.6	32
115	Inflammatory synovial fluid microenvironment drives primary human chondrocytes to actively take part in inflammatory joint diseases. <i>Immunologic Research</i> , 2012, 52, 169-175.	2.9	32
116	Multi-elemental nanoparticle exposure after tantalum component failure in hip arthroplasty: In-depth analysis of a single case. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2017, 13, 2415-2423.	3.3	32
117	Using Bacteriophages as a Trojan Horse to the Killing of Dual-Species Biofilm Formed by <i>Pseudomonas aeruginosa</i> and Methicillin Resistant <i>Staphylococcus aureus</i> . <i>Frontiers in Microbiology</i> , 2020, 11, 695.	3.5	32
118	The metaphyseal bone defect predicts outcome in reverse shoulder arthroplasty for proximal humerus fracture sequelae. <i>Archives of Orthopaedic and Trauma Surgery</i> , 2014, 134, 755-764.	2.4	31
119	High-dose electron beam sterilization of soft-tissue grafts maintains significantly improved biomechanical properties compared to standard gamma treatment. <i>Cell and Tissue Banking</i> , 2015, 16, 219-226.	1.1	31
120	Treatment algorithm of acetabular periprosthetic fractures. <i>International Orthopaedics</i> , 2015, 39, 1995-2003.	1.9	31
121	Osteogenic Predifferentiation of Human Bone Marrow-Derived Stem Cells by Short-Term Mechanical Stimulation. <i>The Open Orthopaedics Journal</i> , 2011, 5, 01-06.	0.2	31
122	A new device to control mechanical environment in bone defect healing in rats. <i>Journal of Biomechanics</i> , 2008, 41, 2696-2702.	2.1	30
123	The global state of clinical research and trends in periprosthetic joint infection: A bibliometric analysis. <i>International Journal of Infectious Diseases</i> , 2020, 96, 696-709.	3.3	30
124	Surgical treatment of two-part fractures of the proximal humerus: Comparison of fixed-angle plate osteosynthesis and Zifko nails. <i>Injury</i> , 2010, 41, 1041-1046.	1.7	29
125	Increased flexion position of the femoral component reduces the flexion gap in total knee arthroplasty. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2012, 20, 1092-1096.	4.2	29
126	Human osteoblast damage after antiseptic treatment. <i>International Orthopaedics</i> , 2014, 38, 177-182.	1.9	29



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127	Validation of Synovial Aspiration in Girdlestone Hips for Detection of Infection Persistence in Patients Undergoing 2-Stage Revision Total Hip Arthroplasty. <i>Journal of Arthroplasty</i> , 2016, 31, 684-687.	3.1	29
128	Rapid detection of periprosthetic joint infection using a combination of 16s rDNA polymerase chain reaction and lateral flow immunoassay. <i>Bone and Joint Research</i> , 2018, 7, 12-19.	3.6	29
129	Do Culture-Negative Periprosthetic Joint Infections Have a Worse Outcome Than Culture-Positive Periprosthetic Joint Infections? A Systematic Review and Meta-Analysis. <i>BioMed Research International</i> , 2018, 2018, 1-12.	1.9	29
130	Preoperative synovial fluid culture poorly predicts the pathogen causing periprosthetic joint infection. <i>Infection</i> , 2021, 49, 427-436.	4.7	29
131	Interaction of Age and Mechanical Stability on Bone Defect Healing: An Early Transcriptional Analysis of Fracture Hematoma in Rat. <i>PLoS ONE</i> , 2014, 9, e106462.	2.5	29
132	Immediate and delayed transplantation of mesenchymal stem cells improve muscle force after skeletal muscle injury in rats. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2012, 6, s60-s67.	2.7	28
133	Improvement in the detection rate of PJI in total hip arthroplasty through multiple sonicate fluid cultures. <i>Journal of Orthopaedic Research</i> , 2013, 31, 2021-2024.	2.3	28
134	Implementation of goal-directed fluid therapy during hip revision arthroplasty: a matched cohort study. <i>Perioperative Medicine (London, England)</i> , 2016, 5, 31.	1.5	28
135	Enterococcal periprosthetic joint infection: clinical and microbiological findings from an 8-year retrospective cohort study. <i>BMC Infectious Diseases</i> , 2019, 19, 1083.	2.9	28
136	Modulation of Matrix Metalloprotease-2 Levels by Mechanical Loading of Three-Dimensional Mesenchymal Stem Cell Constructs: Impact on <i>In Vitro</i> Tube Formation. <i>Tissue Engineering - Part A</i> , 2010, 16, 3139-3148.	3.1	27
137	Generic Rules of Mechano-Regulation Combined with Subject Specific Loading Conditions Can Explain Bone Adaptation after THA. <i>PLoS ONE</i> , 2012, 7, e36231.	2.5	27
138	The direct lateral approach: impact on gait patterns, foot progression angle and pain in comparison with a minimally invasive anterolateral approach. <i>Archives of Orthopaedic and Trauma Surgery</i> , 2012, 132, 725-731.	2.4	27
139	Injectable autologous chondrocyte implantation (ACI) in acetabular cartilage defects—three-year results. <i>Journal of Hip Preservation Surgery</i> , 2018, 5, 386-392.	1.3	27
140	Performance of synovial fluid D-lactate for the diagnosis of periprosthetic joint infection: A prospective observational study. <i>Journal of Infection</i> , 2019, 79, 123-129.	3.3	27
141	Surgical Approach Influences Periprosthetic Femoral Bone Density. <i>Clinical Orthopaedics and Related Research</i> , 2005, 432, 153-159.	1.5	26
142	Collateral effect of COVID-19 on orthopedic and trauma surgery. <i>PLoS ONE</i> , 2020, 15, e0238759.	2.5	26
143	Collateral ligament length change patterns after joint line elevation may not explain midflexion instability following TKA. <i>Medical Engineering and Physics</i> , 2011, 33, 1303-1308.	1.7	25
144	Diagnostic Arthroscopy for Detection of Periprosthetic Infection in Painful Shoulder Arthroplasty. <i>Arthroscopy - Journal of Arthroscopic and Related Surgery</i> , 2019, 35, 2571-2577.	2.7	25

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145	Orthopaedic registries: the German experience. EFORT Open Reviews, 2019, 4, 401-408.	4.1	25
146	Mesenchymal stromal cell and bone marrow concentrate therapies for musculoskeletal indications: a concise review of current literature. Molecular Biology Reports, 2020, 47, 4789-4814.	2.3	25
147	App-based rehabilitation program after total knee arthroplasty: a randomized controlled trial. Archives of Orthopaedic and Trauma Surgery, 2021, 141, 1575-1582.	2.4	25
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