

Edward M Schwarz

List of Publications by Year in descending order

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322
papers

20,530
citations

6613

79
h-index

15732

125
g-index

327
all docs

327
docs citations

327
times ranked

19070
citing authors

#	ARTICLE	IF	CITATIONS
1	3D printing of composite calcium phosphate and collagen scaffolds for bone regeneration. <i>Biomaterials</i> , 2014, 35, 4026-4034.	11.4	710
2	Osteoblast-osteoclast interactions. <i>Connective Tissue Research</i> , 2018, 59, 99-107.	2.3	575
3	Cyclooxygenase-2 regulates mesenchymal cell differentiation into the osteoblast lineage and is critically involved in bone repair. <i>Journal of Clinical Investigation</i> , 2002, 109, 1405-1415.	8.2	514
4	Mechanisms of TNF- α and RANKL-mediated osteoclastogenesis and bone resorption in psoriatic arthritis. <i>Journal of Clinical Investigation</i> , 2003, 111, 821-831.	8.2	489
5	NF- κ B p50 and p52 Regulate Receptor Activator of NF- κ B Ligand (RANKL) and Tumor Necrosis Factor-induced Osteoclast Precursor Differentiation by Activating c-Fos and NFATc1. <i>Journal of Biological Chemistry</i> , 2007, 282, 18245-18253.	3.4	364
6	Cyclooxygenase-2 regulates mesenchymal cell differentiation into the osteoblast lineage and is critically involved in bone repair. <i>Journal of Clinical Investigation</i> , 2002, 109, 1405-1415.	8.2	303
7	Evolving concepts in bone infection: redefining "biofilm", "acute vs. chronic osteomyelitis", "the immune proteome" and "local antibiotic therapy". <i>Bone Research</i> , 2019, 7, 20.	11.4	300
8	Periosteal Progenitor Cell Fate in Segmental Cortical Bone Graft Transplantations: Implications for Functional Tissue Engineering. <i>Journal of Bone and Mineral Research</i> , 2005, 20, 2124-2137.	2.8	294
9	Runx2-mediated regulation of the zinc finger Osterix/Sp7 gene. <i>Gene</i> , 2006, 372, 62-70.	2.2	288
10	3D Printing of Calcium Phosphate Ceramics for Bone Tissue Engineering and Drug Delivery. <i>Annals of Biomedical Engineering</i> , 2017, 45, 23-44.	2.5	271
11	Mechanisms of TNF- α and RANKL-mediated osteoclastogenesis and bone resorption in psoriatic arthritis. <i>Journal of Clinical Investigation</i> , 2003, 111, 821-831.	8.2	271
12	Tumor Necrosis Factor Promotes Runx2 Degradation through Up-regulation of Smurf1 and Smurf2 in Osteoblasts. <i>Journal of Biological Chemistry</i> , 2006, 281, 4326-4333.	3.4	261
13	Remodeling of cortical bone allografts mediated by adherent rAAV-RANKL and VEGF gene therapy. <i>Nature Medicine</i> , 2005, 11, 291-297.	30.7	258
14	Biomaterials approaches to treating implant-associated osteomyelitis. <i>Biomaterials</i> , 2016, 81, 58-71.	11.4	248
15	Osteoclast precursors, RANKL/RANK, and immunology. <i>Immunological Reviews</i> , 2005, 208, 19-29.	6.0	205
16	RANK Signaling Is Not Required for TNF- α -Mediated Increase in CD11b ^{hi} Osteoclast Precursors but Is Essential for Mature Osteoclast Formation in TNF- α -Mediated Inflammatory Arthritis. <i>Journal of Bone and Mineral Research</i> , 2003, 19, 207-213.	2.8	200
17	Systemic tumor necrosis factor α mediates an increase in peripheral CD11b ^{high} osteoclast precursors in tumor necrosis factor α -transgenic mice. <i>Arthritis and Rheumatism</i> , 2004, 50, 265-276.	6.7	198
18	Wnt induction of chondrocyte hypertrophy through the Runx2 transcription factor. <i>Journal of Cellular Physiology</i> , 2006, 208, 77-86.	4.1	195

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19	A Perspective: Engineering Periosteum for Structural Bone Graft Healing. <i>Clinical Orthopaedics and Related Research</i> , 2008, 466, 1777-1787.	1.5	194
20	Evidence of <i>Staphylococcus Aureus</i> Deformation, Proliferation, and Migration in Canaliculi of Live Cortical Bone in Murine Models of Osteomyelitis. <i>Journal of Bone and Mineral Research</i> , 2017, 32, 985-990.	2.8	193
21	2018 International Consensus Meeting on Musculoskeletal Infection: Research Priorities from the General Assembly Questions. <i>Journal of Orthopaedic Research</i> , 2019, 37, 997-1006.	2.3	189
22	TNF.ALPHA. and pathologic bone resorption. <i>Keio Journal of Medicine</i> , 2005, 54, 127-131.	1.1	188
23	Tumor necrosis factor- α /nuclear transcription factor- κ B signaling in periprosthetic osteolysis. <i>Journal of Orthopaedic Research</i> , 2000, 18, 472-480.	2.3	181
24	Tumor Necrosis Factor- α Increases Circulating Osteoclast Precursor Numbers by Promoting Their Proliferation and Differentiation in the Bone Marrow through Up-regulation of c-Fms Expression. <i>Journal of Biological Chemistry</i> , 2006, 281, 11846-11855.	3.4	177
25	Skeletal infections: microbial pathogenesis, immunity and clinical management. <i>Nature Reviews Microbiology</i> , 2022, 20, 385-400.	28.6	165
26	Inhibition of lymphangiogenesis and lymphatic drainage via vascular endothelial growth factor receptor 3 blockade increases the severity of inflammation in a mouse model of chronic inflammatory arthritis. <i>Arthritis and Rheumatism</i> , 2009, 60, 2666-2676.	6.7	155
27	The TNF- α transgenic mouse model of inflammatory arthritis. <i>Seminars in Immunopathology</i> , 2003, 25, 19-33.	4.0	153
28	Review: Gene- and Stem Cell-Based Therapeutics for Bone Regeneration and Repair. <i>Tissue Engineering</i> , 2007, 13, 1135-1150.	4.6	148
29	Quantifying the natural history of biofilm formation in vivo during the establishment of chronic implant-associated <i>Staphylococcus aureus</i> osteomyelitis in mice to identify critical pathogen and host factors. <i>Journal of Orthopaedic Research</i> , 2015, 33, 1311-1319.	2.3	147
30	Efficacy of Etanercept for Wear Debris-Induced Osteolysis. <i>Journal of Bone and Mineral Research</i> , 2001, 16, 338-347.	2.8	145
31	Reduced COX-2 Expression in Aged Mice Is Associated With Impaired Fracture Healing. <i>Journal of Bone and Mineral Research</i> , 2009, 24, 251-264.	2.8	145
32	Teriparatide as a Chondroregenerative Therapy for Injury-Induced Osteoarthritis. <i>Science Translational Medicine</i> , 2011, 3, 101ra93.	12.4	145
33	Smad2 and 3 Mediate Transforming Growth Factor- β 1-Induced Inhibition of Chondrocyte Maturation**The work was supported by National Health Services Grant AR-38945 (to R.J.O.) and an Orthopaedic Research Education Foundation Award (to C.M.F.).. <i>Endocrinology</i> , 2000, 141, 4728-4735.	2.8	141
34	In Vivo RANK Signaling Blockade Using the Receptor Activator of NF- κ B:Fc Effectively Prevents and Ameliorates Wear Debris-Induced Osteolysis via Osteoclast Depletion Without Inhibiting Osteogenesis. <i>Journal of Bone and Mineral Research</i> , 2002, 17, 192-199.	2.8	139
35	Overexpression of noggin inhibits BMP-mediated growth of osteolytic prostate cancer lesions. <i>Bone</i> , 2006, 38, 154-166.	2.9	138
36	Increased lymphangiogenesis in joints of mice with inflammatory arthritis. <i>Arthritis Research and Therapy</i> , 2007, 9, R118.	3.5	134

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37	Quantitative mouse model of implant-associated osteomyelitis and the kinetics of microbial growth, osteolysis, and humoral immunity. <i>Journal of Orthopaedic Research</i> , 2008, 26, 96-105.	2.3	131
38	Orthopaedic device-related infection: current and future interventions for improved prevention and treatment. <i>EFORT Open Reviews</i> , 2016, 1, 89-99.	4.1	131
39	Clinical development of anti-RANKL therapy. <i>Arthritis Research and Therapy</i> , 2007, 9, S7.	3.5	127
40	Smad3-Deficient Chondrocytes Have Enhanced BMP Signaling and Accelerated Differentiation. <i>Journal of Bone and Mineral Research</i> , 2005, 21, 4-16.	2.8	121
41	Ubiquitin Ligase Smurf1 Mediates Tumor Necrosis Factor-induced Systemic Bone Loss by Promoting Proteasomal Degradation of Bone Morphogenetic Signaling Proteins. <i>Journal of Biological Chemistry</i> , 2008, 283, 23084-23092.	3.4	121
42	COX-1 and COX-2 expression in osteoid osteomas. <i>Journal of Orthopaedic Research</i> , 2002, 20, 159-162.	2.3	120
43	Runx1/AML1/Cbfa2 Mediates Onset of Mesenchymal Cell Differentiation Toward Chondrogenesis. <i>Journal of Bone and Mineral Research</i> , 2005, 20, 1624-1636.	2.8	115
44	Lead Exposure Inhibits Fracture Healing and Is Associated with Increased Chondrogenesis, Delay in Cartilage Mineralization, and a Decrease in Osteoprogenitor Frequency. <i>Environmental Health Perspectives</i> , 2005, 113, 749-755.	6.0	114
45	Endostatin Gene Transfer Inhibits Joint Angiogenesis and Pannus Formation in Inflammatory Arthritis. <i>Molecular Therapy</i> , 2002, 5, 547-554.	8.2	113
46	Microarray Analyses of Peripheral Blood Cells Identifies Unique Gene Expression Signature in Psoriatic Arthritis. <i>Molecular Medicine</i> , 2005, 11, 21-29.	4.4	113
47	2018 international consensus meeting on musculoskeletal infection: Summary from the biofilm workgroup and consensus on biofilm related musculoskeletal infections. <i>Journal of Orthopaedic Research</i> , 2019, 37, 1007-1017.	2.3	113
48	ALK2 Functions as a BMP Type I Receptor and Induces Indian Hedgehog in Chondrocytes During Skeletal Development. <i>Journal of Bone and Mineral Research</i> , 2003, 18, 1593-1604.	2.8	112
49	Primary murine limb bud mesenchymal cells in long-term culture complete chondrocyte differentiation: TGF- β 2 delays hypertrophy and PGE2 inhibits terminal differentiation. <i>Bone</i> , 2004, 34, 809-817.	2.9	109
50	Osteoclast precursors: cytokine-stimulated immunomodulators of inflammatory bone disease. <i>Current Opinion in Rheumatology</i> , 2006, 18, 427-432.	4.3	109
51	Vascular endothelial growth factor C attenuates joint damage in chronic inflammatory arthritis by accelerating local lymphatic drainage in mice. <i>Arthritis and Rheumatism</i> , 2011, 63, 2318-2328.	6.7	109
52	PTHrP Modulates Chondrocyte Differentiation through AP-1 and CREB Signaling. <i>Journal of Biological Chemistry</i> , 2001, 276, 11639-11647.	3.4	107
53	Osterix/Sp7 regulates mesenchymal stem cell mediated endochondral ossification. <i>Journal of Cellular Physiology</i> , 2008, 214, 173-182.	4.1	107
54	Staphylococcus aureus Evasion of Host Immunity in the Setting of Prosthetic Joint Infection: Biofilm and Beyond. <i>Current Reviews in Musculoskeletal Medicine</i> , 2018, 11, 389-400.	3.5	107

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55	Quantitative small-animal surrogate to evaluate drug efficacy in preventing wear debris-induced osteolysis. <i>Journal of Orthopaedic Research</i> , 2000, 18, 849-855.	2.3	104
56	Structural Bone Allograft Combined with Genetically Engineered Mesenchymal Stem Cells as a Novel Platform for Bone Tissue Engineering. <i>Tissue Engineering</i> , 2007, 13, 435-445.	4.6	103
57	CD16 (FcγRIII) as a potential marker of osteoclast precursors in psoriatic arthritis. <i>Arthritis Research and Therapy</i> , 2010, 12, R14.	3.5	103
58	Evidence for a Direct Role of Cyclo-Oxygenase 2 in Implant Wear Debris-Induced Osteolysis. <i>Journal of Bone and Mineral Research</i> , 2001, 16, 660-670.	2.8	99
59	Efficacy of ex vivo OPC gene therapy in preventing wear debris induced osteolysis. <i>Journal of Orthopaedic Research</i> , 2002, 20, 169-173.	2.3	99
60	Targeting lymphatic function as a novel therapeutic intervention for rheumatoid arthritis. <i>Nature Reviews Rheumatology</i> , 2018, 14, 94-106.	8.0	99
61	BMP signaling stimulates chondrocyte maturation and the expression of Indian hedgehog. <i>Journal of Orthopaedic Research</i> , 2001, 19, 18-25.	2.3	98
62	Overlapping expression of Runx1(Cbfa2) and Runx2(Cbfa1) transcription factors supports cooperative induction of skeletal development. <i>Journal of Cellular Physiology</i> , 2005, 203, 133-143.	4.1	98
63	Osteoclast Precursor Interaction with Bone Matrix Induces Osteoclast Formation Directly by an Interleukin-1-mediated Autocrine Mechanism. <i>Journal of Biological Chemistry</i> , 2008, 283, 9917-9924.	3.4	97
64	Rescue of Impaired Fracture Healing in COX-2 ^{-/-} Mice via Activation of Prostaglandin E2 Receptor Subtype 4. <i>American Journal of Pathology</i> , 2009, 175, 772-785.	3.8	95
65	Remodeling of murine intrasynovial tendon adhesions following injury: MMP and neotendon gene expression. <i>Journal of Orthopaedic Research</i> , 2009, 27, 833-840.	2.3	94
66	Mechanisms of Immune Evasion and Bone Tissue Colonization That Make <i>Staphylococcus aureus</i> the Primary Pathogen in Osteomyelitis. <i>Current Osteoporosis Reports</i> , 2019, 17, 395-404.	3.6	94
67	Biological Effects of rAAV-caAlk2 Coating on Structural Allograft healing. <i>Molecular Therapy</i> , 2005, 12, 212-218.	8.2	93
68	Conditional activation of β -catenin signaling in mice leads to severe defects in intervertebral disc tissue. <i>Arthritis and Rheumatism</i> , 2012, 64, 2611-2623.	6.7	92
69	Cellular and Molecular Factors in Flexor Tendon Repair and Adhesions: A Histological and Gene Expression Analysis. <i>Connective Tissue Research</i> , 2013, 54, 218-226.	2.3	91
70	Effect of Anti-Tumor Necrosis Factor- α Gene Therapy on Wear Debris-Induced Osteolysis. <i>Journal of Bone and Joint Surgery - Series A</i> , 2001, 83, 1789-1797.	3.0	91
71	RANKL induces heterogeneous DC σ STAMP ^{lo} and DC σ STAMP ^{hi} osteoclast precursors of which the DC σ STAMP ^{lo} precursors are the master fusogens. <i>Journal of Cellular Physiology</i> , 2010, 223, 76-83.	4.1	90
72	Regulation of human osteoclast development by dendritic cell-specific transmembrane protein (DC-STAMP). <i>Journal of Bone and Mineral Research</i> , 2012, 27, 79-92.	2.8	89

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73	The effect of mesenchymal stem cell sheets on structural allograft healing of critical sized femoral defects in mice. <i>Biomaterials</i> , 2014, 35, 2752-2759.	11.4	89
74	Volumetric computerized tomography as a measurement of periprosthetic acetabular osteolysis and its correlation with wear. <i>Arthritis Research</i> , 2002, 4, 59.	2.0	88
75	Runx2/Cbfa1 stimulation by retinoic acid is potentiated by BMP2 signaling through interaction with Smad1 on the collagen X promoter in chondrocytes. <i>Journal of Cellular Biochemistry</i> , 2003, 90, 1287-1298.	2.6	88
76	Fibroblasts Express RANKL and Support Osteoclastogenesis in a COX-2-Dependent Manner After Stimulation With Titanium Particles. <i>Journal of Bone and Mineral Research</i> , 2005, 20, 1136-1148.	2.8	86
77	Adhesions in a murine flexor tendon graft model: Autograft versus allograft reconstruction. <i>Journal of Orthopaedic Research</i> , 2008, 26, 824-833.	2.3	83
78	Validation of GAITRite and PROMIS as high-throughput physical function outcome measures following ACL reconstruction. <i>Journal of Orthopaedic Research</i> , 2014, 32, 793-801.	2.3	83
79	Parathyroid hormone-related peptide (PTHrP) inhibits Runx2 expression through the PKA signaling pathway. <i>Experimental Cell Research</i> , 2004, 299, 128-136.	2.6	82
80	Freeze-dried Tendon Allografts as Tissue-engineering Scaffolds for Gdf5 Gene Delivery. <i>Molecular Therapy</i> , 2008, 16, 466-473.	8.2	82
81	Adeno-associated virus-mediated osteoprotegerin gene transfer protects against particulate polyethylene-induced osteolysis in a murine model. <i>Arthritis and Rheumatism</i> , 2002, 46, 2514-2523.	6.7	81
82	Teriparatide (1-34 human PTH) regulation of osterix during fracture repair. <i>Journal of Cellular Biochemistry</i> , 2008, 105, 219-226.	2.6	81
83	A novel murine segmental femoral graft model. <i>Journal of Orthopaedic Research</i> , 2004, 22, 1254-1260.	2.3	79
84	PGE2 inhibits chondrocyte differentiation through PKA and PKC signaling. <i>Experimental Cell Research</i> , 2004, 300, 159-169.	2.6	79
85	Longitudinal assessment of synovial, lymph node, and bone volumes in inflammatory arthritis in mice by in vivo magnetic resonance imaging and microfocal computed tomography. <i>Arthritis and Rheumatism</i> , 2007, 56, 4024-4037.	6.7	79
86	TAK1 regulates cartilage and joint development via the MAPK and BMP signaling pathways. <i>Journal of Bone and Mineral Research</i> , 2010, 25, 1784-1797.	2.8	79
87	Near-infrared lymphatic imaging demonstrates the dynamics of lymph flow and lymphangiogenesis during the acute versus chronic phases of arthritis in mice. <i>Arthritis and Rheumatism</i> , 2010, 62, 1881-1889.	6.7	78
88	Gene Expression Analysis of the Pleiotropic Effects of TGF- β 1 in an In Vitro Model of Flexor Tendon Healing. <i>PLoS ONE</i> , 2012, 7, e51411.	2.5	78
89	A Phage Display Technique Identifies a Novel Regulator of Cell Differentiation. <i>Journal of Biological Chemistry</i> , 2003, 278, 438-443.	3.4	77
90	Gene therapy approaches to regenerating bone. <i>Advanced Drug Delivery Reviews</i> , 2012, 64, 1320-1330.	13.7	77

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91	Anti-TNF-alpha therapy as a clinical intervention for periprosthetic osteolysis. <i>Arthritis Research</i> , 2000, 2, 165.	2.0	76
92	Use of volumetric computerized tomography as a primary outcome measure to evaluate drug efficacy in the prevention of peri-prosthetic osteolysis: A 1-year clinical pilot of etanercept vs. placebo. <i>Journal of Orthopaedic Research</i> , 2003, 21, 1049-1055.	2.3	76
93	Chronic Osteomyelitis with <i>Staphylococcus aureus</i> Deformation in Submicron Canaliculi of Osteocytes. <i>JBS Case Connector</i> , 2018, 8, e8-e8.	0.3	76
94	Transforming Growth Factor- β 2 Stimulates Cyclin D1 Expression through Activation of β 2-Catenin Signaling in Chondrocytes. <i>Journal of Biological Chemistry</i> , 2006, 281, 21296-21304.	3.4	74
95	Structure-Function Studies of p38 Mitogen-activated Protein Kinase. <i>Journal of Biological Chemistry</i> , 1997, 272, 11096-11102.	3.4	73
96	Effects of receptor activator of NF κ B (RANK) signaling blockade on fracture healing. <i>Journal of Orthopaedic Research</i> , 2003, 21, 676-684.	2.3	73
97	Smad7 mediates inhibition of Saos2 osteosarcoma cell differentiation by NF κ B. <i>Experimental Cell Research</i> , 2006, 312, 40-50.	2.6	73
98	Expanded CD23+/CD21hi B Cells in Inflamed Lymph Nodes Are Associated with the Onset of Inflammatory-Erosive Arthritis in TNF-Transgenic Mice and Are Targets of Anti-CD20 Therapy. <i>Journal of Immunology</i> , 2010, 184, 6142-6150.	0.8	73
99	Viral interleukin-10 gene inhibition of inflammation, osteoclastogenesis, and bone resorption in response to titanium particles. <i>Arthritis and Rheumatism</i> , 2002, 46, 1298-1308.	6.7	72
100	Aging periosteal progenitor cells have reduced regenerative responsiveness to bone injury and to the anabolic actions of PTH 1-34 treatment. <i>Bone</i> , 2014, 62, 79-89.	2.9	72
101	Use of zoledronate to treat osteoblastic versus osteolytic lesions in a severe-combined-immunodeficient mouse model. <i>Cancer Research</i> , 2002, 62, 5564-70.	0.9	71
102	TNF inhibits production of stromal cell-derived factor 1 by bone stromal cells and increases osteoclast precursor mobilization from bone marrow to peripheral blood. <i>Arthritis Research and Therapy</i> , 2008, 10, R37.	3.5	70
103	VEGF-C, a Lymphatic Growth Factor, Is a RANKL Target Gene in Osteoclasts That Enhances Osteoclastic Bone Resorption through an Autocrine Mechanism. <i>Journal of Biological Chemistry</i> , 2008, 283, 13491-13499.	3.4	70
104	NF κ B-Mediated Inhibition of Apoptosis Is Required for Encephalomyocarditis Virus Virulence: a Mechanism of Resistance in p50 Knockout Mice. <i>Journal of Virology</i> , 1998, 72, 5654-5660.	3.4	70
105	Passive immunization with anti-glucosaminidase monoclonal antibodies protects mice from implant-associated osteomyelitis by mediating opsonophagocytosis of <i>Staphylococcus aureus</i> megaclusters. <i>Journal of Orthopaedic Research</i> , 2014, 32, 1389-1396.	2.3	68
106	COX-2 from the injury milieu is critical for the initiation of periosteal progenitor cell mediated bone healing. <i>Bone</i> , 2008, 43, 1075-1083.	2.9	65
107	NF κ B Regulates VCAM-1 Expression on Fibroblast-Like Synoviocytes. <i>Journal of Immunology</i> , 2000, 164, 5990-5997.	0.8	64
108	Wnt-mediated regulation of chondrocyte maturation: Modulation by TGF β 2. <i>Journal of Cellular Biochemistry</i> , 2005, 95, 1057-1068.	2.6	63

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109	Adjuvant antibiotic-loaded bone cement: Concerns with current use and research to make it work. <i>Journal of Orthopaedic Research</i> , 2021, 39, 227-239.	2.3	63
110	<i>In vivo</i> quantification of lymph viscosity and pressure in lymphatic vessels and draining lymph nodes of arthritic joints in mice. <i>Journal of Physiology</i> , 2014, 592, 1213-1223.	2.9	61
111	Periprosthetic osteolysis: an immunologist's update. <i>Current Opinion in Rheumatology</i> , 2006, 18, 80-87.	4.3	59
112	Runx3/AML2/Cbfa3 Regulates Early and Late Chondrocyte Differentiation. <i>Journal of Bone and Mineral Research</i> , 2007, 22, 1260-1270.	2.8	59
113	PGE2 Signaling Through the EP4 Receptor on Fibroblasts Upregulates RANKL and Stimulates Osteolysis. <i>Journal of Bone and Mineral Research</i> , 2009, 24, 1753-1762.	2.8	59
114	Exposure to receptor-activator of NF κ B ligand renders pre-osteoclasts resistant to IFN- γ by inducing terminal differentiation. <i>Arthritis Research</i> , 2002, 5, R49-59.	2.0	58
115	MRI and Quantification of Draining Lymph Node Function in Inflammatory Arthritis. <i>Annals of the New York Academy of Sciences</i> , 2007, 1117, 106-123.	3.8	57
116	PTHrP Expression in Chondrocytes, Regulation by TGF- β 2, and Interactions between Epiphyseal and Growth Plate Chondrocytes. <i>Experimental Cell Research</i> , 2000, 256, 555-562.	2.6	56
117	Direct Gene Therapy for Bone Regeneration: Gene Delivery, Animal Models, and Outcome Measures. <i>Tissue Engineering - Part B: Reviews</i> , 2010, 16, 13-20.	4.8	56
118	Surface topography of silicon nitride affects antimicrobial and osseointegrative properties of tibial implants in a murine model. <i>Journal of Biomedical Materials Research - Part A</i> , 2017, 105, 3413-3421.	4.0	56
119	Micro-computed tomography prediction of biomechanical strength in murine structural bone grafts. <i>Journal of Biomechanics</i> , 2007, 40, 3178-3186.	2.1	55
120	Teriparatide therapy enhances devitalized femoral allograft osseointegration and biomechanics in a murine model. <i>Bone</i> , 2011, 48, 562-570.	2.9	55
121	Self-complementary AAV2.5-BMP2-coated Femoral Allografts Mediated Superior Bone Healing Versus Live Autografts in Mice With Equivalent Biomechanics to Unfractured Femur. <i>Molecular Therapy</i> , 2011, 19, 1416-1425.	8.2	55
122	Transforming Growth Factor- β 2 and Wnt Signals Regulate Chondrocyte Differentiation through Twist1 in a Stage-Specific Manner. <i>Molecular Endocrinology</i> , 2007, 21, 2805-2820.	3.7	54
123	Synthetic scaffold coating with adeno-associated virus encoding BMP2 to promote endogenous bone repair. <i>Cell and Tissue Research</i> , 2012, 347, 575-588.	2.9	54
124	The role of the lymphatic system in inflammatory-erosive arthritis. <i>Seminars in Cell and Developmental Biology</i> , 2015, 38, 90-97.	5.0	54
125	Efficacy of B cell depletion therapy for murine joint arthritis flare is associated with increased lymphatic flow. <i>Arthritis and Rheumatism</i> , 2013, 65, 130-138.	6.7	53
126	A novel murine model of established Staphylococcal bone infection in the presence of a fracture fixation plate to study therapies utilizing antibiotic-laden spacers after revision surgery. <i>Bone</i> , 2015, 72, 128-136.	2.9	53

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127	Oral Pentoxifylline Inhibits Release of Tumor Necrosis Factor-Alpha from Human Peripheral Blood Monocytes. <i>Journal of Bone and Joint Surgery - Series A</i> , 2001, 83, 1057-1061.	3.0	52
128	Mitochondrial Dysfunction and Permeability Transition in Osteosarcoma Cells Showing the Warburg Effect. <i>Journal of Biological Chemistry</i> , 2013, 288, 33303-33311.	3.4	51
129	5-azacytidine alters TGF- β and BMP signaling and induces maturation in articular chondrocytes. <i>Journal of Cellular Biochemistry</i> , 2004, 92, 316-331.	2.6	50
130	Perioperative Antibiotics. <i>Journal of Arthroplasty</i> , 2014, 29, 29-48.	3.1	50
131	PTH-enhanced structural allograft healing is associated with decreased angiotensin-2-mediated arteriogenesis, mast cell accumulation, and fibrosis. <i>Journal of Bone and Mineral Research</i> , 2013, 28, 586-597.	2.8	49
132	PGE2 and IL-6 production by fibroblasts in response to titanium wear debris particles is mediated through a Cox-2 dependent pathway. <i>Journal of Orthopaedic Research</i> , 2004, 22, 6-12.	2.3	48
133	Endogenous tissue engineering: PTH therapy for skeletal repair. <i>Cell and Tissue Research</i> , 2012, 347, 545-552.	2.9	48
134	Targeting Radioresistant Osteosarcoma Cells With Parthenolide. <i>Journal of Cellular Biochemistry</i> , 2012, 113, 1282-1291.	2.6	48
135	Differential effects of biologic versus bisphosphonate inhibition of wear debris-induced osteolysis assessed by longitudinal micro-CT. <i>Journal of Orthopaedic Research</i> , 2008, 26, 1340-1346.	2.3	47
136	A Diagnostic Serum Antibody Test for Patients With Staphylococcus aureus Osteomyelitis. <i>Clinical Orthopaedics and Related Research</i> , 2015, 473, 2735-2749.	1.5	47
137	CREB Cooperates with BMP-stimulated Smad signaling to enhance transcription of the Smad6 promoter. <i>Journal of Cellular Physiology</i> , 2004, 198, 428-440.	4.1	46
138	Recent Advances in Gene Delivery for Structural Bone Allografts. <i>Tissue Engineering</i> , 2007, 13, 1973-1985.	4.6	46
139	Lymphatic endothelial cells efferent to inflamed joints produce iNOS and inhibit lymphatic vessel contraction and drainage in TNF-induced arthritis in mice. <i>Arthritis Research and Therapy</i> , 2016, 18, 62.	3.5	46
140	Elucidating bone marrow edema and myelopoiesis in murine arthritis using contrast-enhanced magnetic resonance imaging. <i>Arthritis and Rheumatism</i> , 2008, 58, 2019-2029.	6.7	45
141	Aberrant hypertrophy in Smad3-deficient murine chondrocytes is rescued by restoring transforming growth factor β -activated kinase 1/activating transcription factor 2 signaling: A potential clinical implication for osteoarthritis. <i>Arthritis and Rheumatism</i> , 2010, 62, 2359-2369.	6.7	45
142	Establishment of an index with increased sensitivity for assessing murine arthritis. <i>Journal of Orthopaedic Research</i> , 2011, 29, 1145-1151.	2.3	45
143	Use of a Phage Display Technique to Identify Potential Osteoblast Binding Sites Within Osteoclast Lacunae. <i>Journal of Bone and Mineral Research</i> , 2002, 17, 915-922.	2.8	44
144	CD23 ⁺ /CD21 ^{hi} B-cell translocation and ipsilateral lymph node collapse is associated with asymmetric arthritic flare in TNF-Tg mice. <i>Arthritis Research and Therapy</i> , 2011, 13, R138.	3.5	44

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