Stuart B Goodman

List of Publications by Year
in descending order

347 papers	20,034 citations	13865 67 h-index	16183 124 g-index
355 all docs	355 docs citations	355 times ranked	21485 citing authors

#	Article	IF	Citations
1	Iron oxide nanoparticles inhibit tumour growth by inducing pro-inflammatory macrophage polarization in tumour tissues. Nature Nanotechnology, 2016, 11, 986-994.	31.5	1,223
2	Inflammation, fracture and bone repair. Bone, 2016, 86, 119-130.	2.9	825
3	Macrophage polarization: An opportunity for improved outcomes in biomaterials and regenerative medicine. Biomaterials, 2012, 33, 3792-3802.	11.4	728
4	The future of biologic coatings for orthopaedic implants. Biomaterials, 2013, 34, 3174-3183.	11.4	673
5	Lymphocyte Cc Chemokine Receptor 9 and Epithelial Thymus-Expressed Chemokine (Teck) Expression Distinguish the Small Intestinal Immune Compartment. Journal of Experimental Medicine, 2000, 192, 761-768.	8.5	607
6	Multifunctional coatings to simultaneously promote osseointegration and prevent infection of orthopaedic implants. Biomaterials, 2016, 84, 301-314.	11.4	541
7	Mesenchymal stem cell-macrophage crosstalk and bone healing. Biomaterials, 2019, 196, 80-89.	11.4	528
8	Identification of the Human Skeletal Stem Cell. Cell, 2018, 175, 43-56.e21.	28.9	425
9	Wear particles, periprosthetic osteolysis and the immune system. Biomaterials, 2007, 28, 5044-5048.	11.4	295
10	Clinical recovery from surgery correlates with single-cell immune signatures. Science Translational Medicine, 2014, 6, 255ra131.	12.4	285
11	CCL2/CCR2, but not CCL5/CCR5, mediates monocyte recruitment, inflammation and cartilage destruction in osteoarthritis. Annals of the Rheumatic Diseases, 2017, 76, 914-922.	0.9	277
12	Current Modes of Failure in TKA: Infection, Instability, and Stiffness Predominate. Clinical Orthopaedics and Related Research, 2014, 472, 2197-2200.	1.5	220
13	Modulation of the Inflammatory Response and Bone Healing. Frontiers in Endocrinology, 2020, 11, 386.	3.5	205
14	Macrophagesâ€"Key cells in the response to wear debris from joint replacements. Journal of Biomedical Materials Research - Part A, 2013, 101, 3033-3045.	4.0	204
15	Particle disease: Biologic mechanisms of periprosthetic osteolysis in total hip arthroplasty. Innate Immunity, 2013, 19, 213-224.	2.4	201
16	Articular cartilage regeneration by activated skeletal stem cells. Nature Medicine, 2020, 26, 1583-1592.	30.7	194
17	The effects of immunomodulation by macrophage subsets on osteogenesis in vitro. Stem Cell Research and Therapy, 2016, 7, 15.	5.5	193
18	Stem cell homing in musculoskeletal injury. Biomaterials, 2011, 32, 395-409.	11.4	189

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19	Signaling Pathways for Tumor Necrosis Factor-Î± and Interleukin-6 Expression in Human Macrophages Exposed to Titanium-Alloy Particulate Debris in Vitro*. Journal of Bone and Joint Surgery - Series A, 1999, 81, 603-15.	3.0	185
20	Guidelines for clinical diagnosis and treatment of osteonecrosis of the femoral head in adults (2019) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	3.9	182
21	Chronic inflammation in biomaterial-induced periprosthetic osteolysis: NF-Î°B as a therapeutic target. Acta Biomaterialia, 2014, 10, 1-10.	8.3	181
22	Aging, inflammation, stem cells, and bone healing. Stem Cell Research and Therapy, 2016, 7, 44.	5.5	178
23	Revision joint replacement, wear particles, and macrophage polarization. Acta Biomaterialia, 2012, 8, 2815-2823.	8.3	177
24	The Sequential Expression Profiles of Growth Factors from Osteroprogenitors to OsteoblastsIn Vitro. Tissue Engineering, 2007, 13, 2311-2320.	4.6	172
25	Complications of ilioischial reconstruction rings in revision total hip arthroplasty. Journal of Arthroplasty, 2004, 19, 436-446.	3.1	168
26	Nontraumatic Osteonecrosis of the Femoral Head: Where Do We Stand Today?. Journal of Bone and Joint Surgery - Series A, 2020, 102, 1084-1099.	3.0	164
27	Effect of Perioperative Gabapentin on Postoperative Pain Resolution and Opioid Cessation in a Mixed Surgical Cohort. JAMA Surgery, 2018, 153, 303.	4.3	159
28	Effect of size, concentration, surface area, and volume of polymethylmethacrylate particles on human macrophagesin vitro. , 1996, 30, 463-473.		158
29	A Pilot Cohort Study of the Determinants of Longitudinal Opioid Use After Surgery. Anesthesia and Analgesia, 2012, 115, 694-702.	2.2	158
30	The 2019 Revised Version of Association Research Circulation Osseous Staging System of Osteonecrosis of the Femoral Head. Journal of Arthroplasty, 2020, 35, 933-940.	3.1	155
31	COX-2 selective NSAID decreases bone ingrowth in vivo. Journal of Orthopaedic Research, 2002, 20, 1164-1169.	2.3	145
32	Proâ€inflammatory M1 macrophages promote Osteogenesis by mesenchymal stem cells via the COXâ€2â€prostaglandin E2 pathway. Journal of Orthopaedic Research, 2017, 35, 2378-2385.	2.3	141
33	Mesenchymal stem cells homing to improve bone healing. Journal of Orthopaedic Translation, 2017, 9, 19-27.	3.9	141
34	Periprosthetic Osteolysis: Mechanisms, Prevention and Treatment. Journal of Clinical Medicine, 2019, 8, 2091.	2.4	136
35	Modulating osteogenesis of mesenchymal stem cells by modifying growth factor availability. Cytokine, 2010, 51, 305-310.	3.2	117
36	Effects of orthopaedic wear particles on osteoprogenitor cells. Biomaterials, 2006, 27, 6096-6101.	11.4	116

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37	Role of the Toll-like receptor pathway in the recognition of orthopedic implant wear-debris particles. Biomaterials, 2011, 32, 5535-5542.	11.4	113
38	Cellular chemotaxis induced by wear particles from joint replacements. Biomaterials, 2010, 31, 5045-5050.	11.4	112
39	What is the Trouble With Trunnions?. Clinical Orthopaedics and Related Research, 2014, 472, 3652-3658.	1.5	110
40	Early-stage osteonecrosis of the femoral head: where are we and where are we going in year 2018?. International Orthopaedics, 2018, 42, 1723-1728.	1.9	108
41	Engineered protein coatings to improve the osseointegration of dental and orthopaedic implants. Biomaterials, 2016, 83, 269-282.	11.4	105
42	Systematic characterization of 3D-printed PCL/Î²-TCP scaffolds for biomedical devices and bone tissue engineering: Influence of composition and porosity. Journal of Materials Research, 2018, 33, 1948-1959.	2.6	105
43	The effects of micromotion and particulate materials on tissue differentiation: Bone chamber studies in rabbits. Acta Orthopaedica, 1994, 65, 1-43.	1.4	104
44	Venous Thromboembolism Prophylaxis After TKA: Aspirin, Warfarin, Enoxaparin, or Factor Xa Inhibitors?. Clinical Orthopaedics and Related Research, 2017, 475, 2205-2213.	1.5	103
45	Contributions of human tissue analysis to understanding the mechanisms of loosening and osteolysis in total hip replacement. Acta Biomaterialia, 2014, 10, 2354-2366.	8.3	101
46	The Current Role of Structural Grafts and Cages in Revision Arthroplasty of the Hip. Clinical Orthopaedics and Related Research, 2004, 429, 193-200.	1.5	97
47	The biological response to orthopaedic implants for joint replacement: Part I: Metals. , 2017, 105, 2162-2173.		95
48	Cell therapy for bone regenerationâ€"Bench to bedside. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2009, 89B, 252-263.	3.4	91
49	The biological response to orthopedic implants for joint replacement. II: Polyethylene, ceramics, PMMA, and the foreign body reaction. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2017, 105, 1685-1691.	3.4	91
50	Inflammation, ageing, and bone regeneration. Journal of Orthopaedic Translation, 2017, 10, 28-35.	3.9	91
51	Deficient Activity of the Nuclease MRE11A Induces T Cell Aging and Promotes Arthritogenic Effector Functions in Patients with Rheumatoid Arthritis. Immunity, 2016, 45, 903-916.	14.3	88
52	NF-ÎºB as a Therapeutic Target in Inflammatory-Associated Bone Diseases. Advances in Protein Chemistry and Structural Biology, 2017, 107, 117-154.	2.3	88
53	Preconditioning of murine mesenchymal stem cells synergistically enhanced immunomodulation and osteogenesis. Stem Cell Research and Therapy, 2017, 8, 277.	5.5	86
54	miR-223-3p Inhibits Human Osteosarcoma Metastasis and Progression by Directly Targeting CDH6. Molecular Therapy, 2018, 26, 1299-1312.	8.2	85

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55	Immune modulation as a therapeutic strategy in bone regeneration. Journal of Experimental Orthopaedics, 2015, 2, 1.	1.8	82
56	Continuous Infusion of UHMWPE Particles Induces Increased Bone Macrophages and Osteolysis. Clinical Orthopaedics and Related Research, 2011, 469, 113-122.	1.5	80
57	Pharmacological rescue of diabetic skeletal stem cell niches. Science Translational Medicine, 2017, 9, .	12.4	80
58	Wear particulate and osteolysis. Orthopedic Clinics of North America, 2005, 36, 41-48.	1.2	79
59	Current state and future of joint replacements in the hip and knee. Expert Review of Medical Devices, 2008, 5, 383-393.	2.8	79
60	Etiologic Classification Criteria of ARCO on Femoral Head Osteonecrosis Part 1: Glucocorticoid-Associated Osteonecrosis. Journal of Arthroplasty, 2019, 34, 163-168.e1.	3.1	79
61	Macrophage polarization in response to wear particles in vitro. Cellular and Molecular Immunology, 2013, 10, 471-482.	10.5	78
62	In Vitro, In Vivo, and Tissue Retrieval Studies on Particulate Debris. Clinical Orthopaedics and Related Research, 1998, 352, 25???34.	1.5	76
63	The Direct Anterior Approach is Associated With Early Revision Total Hip Arthroplasty. Journal of Arthroplasty, 2017, 32, 1001-1005.	3.1	76
64	miR-216a inhibits osteosarcoma cell proliferation, invasion and metastasis by targeting CDK14. Cell Death and Disease, 2017, 8, e3103-e3103.	6.3	74
65	3D Printing in alloy design to improve biocompatibility in metallic implants. Materials Today, 2021, 45, 20-34.	14.2	74
66	IgE-mediated mast cell activation promotes inflammation and cartilage destruction in osteoarthritis. ELife, 2019, 8, .	6.0	74
67	In vitro reaction to orthopaedic biomaterials by macrophages and lymphocytes isolated from patients undergoing revision surgery. Biomaterials, 2001, 22, 253-259.	11.4	73
68	Selective inhibition of the MCPâ€1â€CCR2 ligandâ€receptor axis decreases systemic trafficking of macrophages in the presence of UHMWPE particles. Journal of Orthopaedic Research, 2012, 30, 547-553.	2.3	72
69	Stem cellâ€mediated accelerated bone healing observed with in vivo molecular and small animal imaging technologies in a model of skeletal injury. Journal of Orthopaedic Research, 2009, 27, 295-302.	2.3	71
70	Osteochondral Tissue Chip Derived From iPSCs: Modeling OA Pathologies and Testing Drugs. Frontiers in Bioengineering and Biotechnology, 2019, 7, 411.	4.1	71
71	Causes of Instability After Total Knee Arthroplasty. Journal of Arthroplasty, 2014, 29, 360-364.	3.1	70
72	Human interleukin-1-induced murine osteoclastogenesis is dependent on RANKL, but independent of TNF-Î±. Cytokine, 2004, 26, 138-144.	3.2	69

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73	Local effect of ILâ€4 delivery on polyethylene particle induced osteolysis in the murine calvarium. Journal of Biomedical Materials Research - Part A, 2013, 101A, 1926-1934.	4.0	69
74	Factors Associated With Acute Pain Estimation, Postoperative Pain Resolution, Opioid Cessation, and Recovery. JAMA Network Open, 2019, 2, e190168.	5.9	69
75	Biocompatibility of total joint replacements: A review. Journal of Biomedical Materials Research - Part A, 2009, 90A, 603-618.	4.0	67
76	Recommendations and Considerations for the Use of Biologics in Orthopedic Surgery. BioDrugs, 2012, 26, 245-256.	4.6	66
77	Tollâ€like receptors and their adaptors are regulated in macrophages after phagocytosis of lipopolysaccharideâ€coated titanium particles. Journal of Orthopaedic Research, 2011, 29, 984-992.	2.3	65
78	Metabolic Control of Autoimmunity and Tissue Inflammation in Rheumatoid Arthritis. Frontiers in Immunology, 2021, 12, 652771.	4.8	65
79	Biomaterial Hypersensitivity: Is It Real? Supportive Evidence and Approach Considerations for Metal Allergic Patients following Total Knee Arthroplasty. BioMed Research International, 2015, 2015, 1-10.	1.9	64
80	Aging Affects Bone Marrow Macrophage Polarization: Relevance to Bone Healing. Regenerative Engineering and Translational Medicine, 2016, 2, 98-104.	2.9	64
81	Osteonecrosis of the Femoral Head: an Updated Review of ARCO on Pathogenesis, Staging and Treatment. Journal of Korean Medical Science, 2021, 36, e177.	2.5	64
82	Total hip arthroplasty in juvenile chronic arthritis. Journal of Arthroplasty, 1998, 13, 259-265.	3.1	63
83	Porous tantalum in hip and knee reconstructive surgery. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2009, 89B, 242-251.	3.4	62
84	Knee arthroplasty in rheumatoid arthritis: A report from the Swedish Knee Arthroplasty Register on 4, 381 primary operations 1985â€“1995. Acta Orthopaedica, 1997, 68, 545-553.	1.4	61
85	Patient Satisfaction After Total Knee Arthroplasty. Orthopedic Clinics of North America, 2017, 48, 421-431.	1.2	61
86	Increased Expression of Toll-like Receptors in Aseptic Loose Periprosthetic Tissues and Septic Synovial Membranes Around Total Hip Implants. Journal of Rheumatology, 2009, 36, 598-608.	2.0	59
87	Interleukin-10 inhibits polymethylmethacrylate particle induced interleukin-6 and tumor necrosis factor-Î± release by human monocyte/macrophages in vitro. Biomaterials, 2001, 22, 2067-2073.	11.4	58
88	The effects of a functionally-graded scaffold and bone marrow-derived mononuclear cells on steroid-induced femoral head osteonecrosis. Biomaterials, 2018, 187, 39-46.	11.4	58
89	Ultrahigh molecular weight polyethylene wear debris inhibits osteoprogenitor proliferation and differentiation in vitro. Journal of Biomedical Materials Research - Part A, 2009, 89A, 242-247.	4.0	57
90	Treatment of Periprosthetic Knee Infection With a Two-stage Protocol Using Static Spacers. Clinical Orthopaedics and Related Research, 2016, 474, 120-125.	1.5	57

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91	The basic science of periprosthetic osteolysis. Instructional Course Lectures, 2013, 62, 201-6.	0.2	57
92	Decreased osteogenesis in mesenchymal stem cells derived from the aged mouse is associated with enhanced NFâ€ÎºB activity. Journal of Orthopaedic Research, 2017, 35, 281-288.	2.3	56
93	Customized, degradable, functionally graded scaffold for potential treatment of early stage osteonecrosis of the femoral head. Journal of Orthopaedic Research, 2018, 36, 1002-1011.	2.3	56
94	Precise immunomodulation of the M1 to M2 macrophage transition enhances mesenchymal stem cell osteogenesis and differs by sex. Bone and Joint Research, 2019, 8, 481-488.	3.6	56
95	Inflammation and its resolution and the musculoskeletal system. Journal of Orthopaedic Translation, 2017, 10, 52-67.	3.9	55
96	Role of Macrophages in the Biological Reaction to Wear Debris from Joint Replacements. Journal of Long-Term Effects of Medical Implants, 2014, 24, 259-265.	0.7	55
97	Periprosthetic Osteolysis: Induction of Vascular Endothelial Growth Factor From Human Monocyte/Macrophages by Orthopaedic Biomaterial Particles. Journal of Bone and Mineral Research, 2003, 18, 1573-1583.	2.8	54
98	Polyethylene wear in knee arthroplasty. Acta Orthopaedica, 1992, 63, 358-364.	1.4	53
99	Temporal effects of a COX-2-selective NSAID on bone ingrowth. Journal of Biomedical Materials Research - Part A, 2005, 72A, 279-287.	4.0	53
100	Single-cell mass cytometry reveals cross-talk between inflammation-dampening and inflammation-amplifying cells in osteoarthritic cartilage. Science Advances, 2020, 6, eaay5352.	10.3	52
101	Interleukin-1 modulates periprosthetic tissue formation in an intramedullary model of particle-induced inflammation. Journal of Orthopaedic Research, 2005, 23, 501-510.	2.3	51
102	Effects of orthopedic polymer particles on chemotaxis of macrophages and mesenchymal stem cells. Journal of Biomedical Materials Research - Part A, 2010, 94A, 1264-1269.	4.0	51
103	Characterization of macrophage polarizing cytokines in the aseptic loosening of total hip replacements. Journal of Orthopaedic Research, 2014, 32, 1241-1246.	2.3	51
104	Etiologic Classification Criteria of ARCO on Femoral Head Osteonecrosis Part 2: Alcohol-Associated Osteonecrosis. Journal of Arthroplasty, 2019, 34, 169-174.e1.	3.1	51
105	The role of the TH1 and TH2 immune responses in loosening and osteolysis of cemented total hip replacements. Journal of Biomedical Materials Research Part B, 2003, 64A, 693-697.	3.1	50
106	Innate Immune Reactions in Septic and Aseptic Osteolysis around Hip Implants. Journal of Long-Term Effects of Medical Implants, 2014, 24, 283-296.	0.7	50
107	Polymethylmethacrylate particles inhibit osteoblastic differentiation of bone marrow osteoprogenitor cells. Journal of Biomedical Materials Research - Part A, 2006, 77A, 850-856.	4.0	49
108	Proinflammatory mediator expression in a novel murine model of titanium-particle-induced intramedullary inflammation. Journal of Biomedical Materials Research Part B, 2004, 71B, 360-366.	3.1	48

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109	Inflammation and Bone Repair: From Particle Disease to Tissue Regeneration. Frontiers in Bioengineering and Biotechnology, 2019, 7, 230.	4.1	48
110	Composite hip prosthesis design. II. Simulation. , 1998, 39, 102-119.		47
111	An in vivo murine model of continuous intramedullary infusion of polyethylene particles. Biomaterials, 2008, 29, 3738-3742.	11.4	47
112	Fibroblast expression of Câ€"C chemokines in response to orthopaedic biomaterial particle challenge in vitro. Journal of Orthopaedic Research, 2001, 19, 970-976.	2.3	46
113	Establishment of NF-Î²B sensing and interleukin-4 secreting mesenchymal stromal cells as an â€œon-demandâ€•drug delivery system to modulate inflammation. Cytotherapy, 2017, 19, 1025-1034.	0.7	46
114	ARCO Consensus on the Pathogenesis of Non-traumatic Osteonecrosis of the Femoral Head. Journal of Korean Medical Science, 2021, 36, e65.	2.5	46
115	Effects of polyethylene particles on tissue surrounding knee arthroplasties in rabbits. , 1998, 43, 123-130.		45
116	Mutant MCP-1 protein delivery from layer-by-layer coatings onÂorthopedic implants to modulate inflammatory response. Biomaterials, 2013, 34, 10287-10295.	11.4	45
117	Hematopoietic PBX-interacting protein mediates cartilage degeneration during the pathogenesis of osteoarthritis. Nature Communications, 2019, 10, 313.	12.8	45
118	Suppression of wear-particle-induced pro-inflammatory cytokine and chemokine production in macrophages via NF-Î²B decoy oligodeoxynucleotide: A preliminary report. Acta Biomaterialia, 2014, 10, 3747-3755.	8.3	44
119	NF-Î²B Decoy Oligodeoxynucleotide Enhanced Osteogenesis in Mesenchymal Stem Cells Exposed to Polyethylene Particle. Tissue Engineering - Part A, 2015, 21, 875-883.	3.1	44
120	Obesity is Associated With Early Total Hip Revision for Aseptic Loosening. Journal of Arthroplasty, 2016, 31, 217-220.	3.1	44
121	Obesity Is Independently Associated With Early Aseptic Loosening in Primary Total Hip Arthroplasty. Journal of Arthroplasty, 2018, 33, 882-886.	3.1	44
122	Systemic trafficking of macrophages induced by bone cement particles in nude mice. Biomaterials, 2008, 29, 4760-4765.	11.4	43
123	Mesenchymal stem cells in the aseptic loosening of total joint replacements. Journal of Biomedical Materials Research - Part A, 2017, 105, 1195-1207.	4.0	43
124	Periprosthetic bacterial biofilm and quorum sensing. Journal of Orthopaedic Research, 2018, 36, 2331-2339.	2.3	43
125	Modulation of mouse macrophage polarizationin vitrousing IL-4 delivery by osmotic pumps. Journal of Biomedical Materials Research - Part A, 2015, 103, 1339-1345.	4.0	42
126	A dysfunctional TRPV4â€“GSK3Î² pathway prevents osteoarthritic chondrocytes from sensing changes in extracellular matrix viscoelasticity. Nature Biomedical Engineering, 2021, 5, 1472-1484.	22.5	42

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127	Pharmacologic Modulation of Periprosthetic Osteolysis. Clinical Orthopaedics and Related Research, 2005, 430, 39-45.	1.5	41
128	The Effects of Medications on Bone. Journal of the American Academy of Orthopaedic Surgeons, The, 2007, 15, 450-460.	2.5	41
129	Local infusion of FGF-2 enhances bone ingrowth in rabbit chambers in the presence of polyethylene particles. Journal of Biomedical Materials Research Part B, 2003, 65A, 454-461.	3.1	40
130	Effect of a CCR1 receptor antagonist on systemic trafficking of MSCs and polyethylene particle-associated bone loss. Biomaterials, 2012, 33, 3632-3638.	11.4	40
131	Modified sliding trochanteric osteotomy in revision total hip arthroplasty. Journal of Arthroplasty, 2004, 19, 1039-1041.	3.1	39
132	Effects of sclerostin antibody on healing of a nonâ€critical size femoral bone defect. Journal of Orthopaedic Research, 2013, 31, 155-163.	2.3	39
133	The effect of SDFâ€1Î± on low dose BMPâ€2 mediated bone regeneration by release from heparinized mineralized collagen type I matrix scaffolds in a murine critical size bone defect model. Journal of Biomedical Materials Research - Part A, 2016, 104, 2126-2134.	4.0	39
134	Recommendations and Considerations for the Use of Biologics in Orthopedic Surgery. BioDrugs, 2012, 26, 245-256.	4.6	38
135	The effect of local ILâ€4 delivery or CCL2 blockade on implant fixation and bone structural properties in a mouse model of wear particle induced osteolysis. Journal of Biomedical Materials Research - Part A, 2016, 104, 2255-2262.	4.0	38
136	Biocompatibility of poly(ethylene glycol)/poly(acrylic acid) interpenetrating polymer network hydrogel particles in RAW 264.7 macrophage and MGâ€63 osteoblast cell lines. Journal of Biomedical Materials Research - Part A, 2009, 91A, 894-902.	4.0	37
137	Tollâ€like receptorsâ€2 and 4 are overexpressed in an experimental model of particleâ€induced osteolysis. Journal of Biomedical Materials Research - Part A, 2014, 102, 3004-3011.	4.0	37
138	The effect of desflurane versus propofol anesthesia on postoperative delirium in elderly obese patients undergoing total knee replacement: A randomized, controlled, double-blinded clinical trial. Journal of Clinical Anesthesia, 2017, 39, 17-22.	1.6	37
139	NFÎºB sensing ILâ€4 secreting mesenchymal stem cells mitigate the proinflammatory response of macrophages exposed to polyethylene wear particles. Journal of Biomedical Materials Research - Part A, 2018, 106, 2744-2752.	4.0	37
140	T-lymphocytes are not necessary for particulate polyethylene-induced macrophage recruitment: Histologic studies of the rat tibia. Acta Orthopaedica, 1994, 65, 157-160.	1.4	36
141	Macrophage Polarization and Activation in Response to Implant Debris: Influence by "Particle Disease" and "Ion Disease". Journal of Long-Term Effects of Medical Implants, 2014, 24, 267-281.	0.7	36
142	Mutant CCL2 protein coating mitigates wear particle-induced bone loss in a murine continuous polyethylene infusion model. Biomaterials, 2017, 117, 1-9.	11.4	36
143	Effect of osteogenic protein 1/collagen composite combined with impacted allograft around hydroxyapatite-coated titanium alloy implants is moderate. Journal of Biomedical Materials Research Part B, 2001, 55, 89-95.	3.1	35
144	Enhancement of BMP-2 Induced Bone Regeneration by SDF-1Î± Mediated Stem Cell Recruitment. Tissue Engineering - Part A, 2014, 20, 131112094536009.	3.1	35

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145	Smoking is associated with earlier time to revision of total knee arthroplasty. Knee, 2017, 24, 1182-1186.	1.6	35
146	C<scp>CL2, CCL5, and IGF</scp>â€1 participate in the immunomodulation of osteogenesis during <scp>M1/M</scp>2 transition in vitro. Journal of Biomedical Materials Research - Part A, 2017, 105, 3069-3076.	4.0	35
147	Outcome of Porous Tantalum Acetabular Components for Paprosky Type 3 and 4 Acetabular Defects. Journal of Arthroplasty, 2014, 29, 1318-1322.	3.1	34
148	Inhibition of TET1 prevents the development of osteoarthritis and reveals the 5hmC landscape that orchestrates pathogenesis. Science Translational Medicine, 2020, 12, .	12.4	34
149	Is There a Benefit to Modularity in â€˜Simplerâ€™ Femoral Revisions?. Clinical Orthopaedics and Related Research, 2016, 474, 415-420.	1.5	33
150	Current Models for Development of Disease-Modifying Osteoarthritis Drugs. Tissue Engineering - Part C: Methods, 2021, 27, 124-138.	2.1	33
151	Titanium particles modulate expression of Tollâ€like receptor proteins. Journal of Biomedical Materials Research - Part A, 2010, 92A, 1528-1537.	4.0	32
152	Tumor necrosis factor primes and metal particles activate the NLRP3 inflammasome in human primary macrophages. Acta Biomaterialia, 2020, 108, 347-357.	8.3	32
153	Local delivery of mutant CCL2 proteinâ€reduced orthopaedic implant wear particleâ€induced osteolysis and inflammation in vivo. Journal of Orthopaedic Research, 2016, 34, 58-64.	2.3	31
154	Diagnosis and management of implant debris-associated inflammation. Expert Review of Medical Devices, 2020, 17, 41-56.	2.8	31
155	Macrophage Effects on Mesenchymal Stem Cell Osteogenesis in a Three-DimensionalIn VitroBone Model. Tissue Engineering - Part A, 2020, 26, 1099-1111.	3.1	31
156	Polymethylmethacrylate particles impair osteoprogenitor viability and expression of osteogenic transcription factors Runx2, osterix, and Dlx5. Journal of Orthopaedic Research, 2010, 28, 571-577.	2.3	30
157	Lipoteichoic acid modulates inflammatory response in macrophages after phagocytosis of titanium particles through Tollâ€like receptor 2 cascade and inflammasomes. Journal of Biomedical Materials Research - Part A, 2016, 104, 435-444.	4.0	30
158	NF-Îº B decoy oligodeoxynucleotide mitigates wear particle-associated bone loss in the murine continuous infusion model. Acta Biomaterialia, 2016, 41, 273-281.	8.3	30
159	Strontium enhances BMPâ€2 mediated bone regeneration in a femoral murine bone defect model. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2020, 108, 174-182.	3.4	30
160	The characterization of macrophages and osteoclasts in tissues harvested from revised total hip prostheses. Journal of Biomedical Materials Research Part B, 1999, 48, 899-903.	3.1	29
161	Polymethylmethacrylate particles inhibit osteoblastic differentiation of MC3T3â€E1 osteoprogenitor cells. Journal of Orthopaedic Research, 2008, 26, 932-936.	2.3	29
162	Correlations between macrophage polarizing cytokines, inflammatory mediators, osteoclast activity, and tollâ€like receptors in tissues around aseptically loosened hip implants. Journal of Biomedical Materials Research - Part A, 2017, 105, 454-463.	4.0	29

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163	Elevated Body Mass Index Is Associated With Early Total Knee Revision for Infection. Journal of Arthroplasty, 2017, 32, 252-255.	3.1	29
164	The Cost of Malnutrition in Total Joint Arthroplasty. Journal of Arthroplasty, 2020, 35, 926-932.e1.	3.1	29
165	Interleukin-4 inhibits granulocyte-macrophage colony-stimulating factor, interleukin-6, and tumor necrosis factor-alpha expression by human monocytes in response to polymethylmethacrylate particle challengein vitro. Journal of Orthopaedic Research, 1999, 17, 797-802.	2.3	28
166	UHMWPE wear debris upregulates mononuclear cell proinflammatory gene expression in a novel murine model of intramedullary particle disease. Monthly Notices of the Royal Astronomical Society: Letters, 2005, 76, 412-420.	3.3	28
167	Establishment of Green Fluorescent Protein and Firefly Luciferase Expressing Mouse Primary Macrophages for In Vivo Bioluminescence Imaging. PLoS ONE, 2015, 10, e0142736.	2.5	28
168	Reconstruction of Disrupted Extensor Mechanism After Total Knee Arthroplasty. Journal of Arthroplasty, 2017, 32, 3134-3140.	3.1	28
169	Inflammation, Bone Healing and Osteonecrosis: From Bedside to Bench . Journal of Inflammation Research, 2020, Volume 13, 913-923.	3.5	28
170	Interleukinâ€4 overexpressing mesenchymal stem cells within <scp>gelatinâ€based</scp> microribbon hydrogels enhance bone healing in a murine long bone criticalâ€size defect model. Journal of Biomedical Materials Research - Part A, 2020, 108, 2240-2250.	4.0	28
171	MC3T3-E1 Osteoprogenitor Cells Systemically Migrate to a Bone Defect and Enhance Bone Healing. Tissue Engineering - Part A, 2012, 18, 968-973.	3.1	27
172	Pain Duration and Resolution following Surgery: An Inception Cohort Study. Pain Medicine, 2015, 16, 2386-2396.	1.9	27
173	The biological basis for concentrated iliac crest aspirate to enhance core decompression in the treatment of osteonecrosis. International Orthopaedics, 2018, 42, 1705-1709.	1.9	27
174	Transplanted interleukin-4–secreting mesenchymal stromal cells show extended survival and increased bone mineral density in the murine femur. Cytotherapy, 2018, 20, 1028-1036.	0.7	27
175	PDGF-BB and IL-4 co-overexpression is a potential strategy to enhance mesenchymal stem cell-based bone regeneration. Stem Cell Research and Therapy, 2021, 12, 40.	5.5	27
176	Chronic antigen-specific immune-system activation may potentially be involved in the loosening of cemented acetabular components. Journal of Biomedical Materials Research Part B, 2001, 55, 433-441.	3.1	26
177	Surveillance of systemic trafficking of macrophages induced by UHMWPE particles in nude mice by noninvasive imaging. Journal of Biomedical Materials Research - Part A, 2010, 94A, 706-711.	4.0	26
178	Revision Hip Arthroplasty Using a Modular, Cementless Femoral Stem: Intermediate-Term Follow-Up. Journal of Arthroplasty, 2017, 32, 1245-1249.	3.1	26
179	Diagnosis of Osteonecrosis of the Femoral Head: Too Little, Too Late, and Independent of Etiology. Journal of Arthroplasty, 2020, 35, 2342-2349.	3.1	26
180	Interferon-gamma exacerbates polymethylmethacrylate particle-induced interleukin-6 release by human monocyte/macrophagesin vitro. , 1999, 47, 1-7.		25

#	Article	IF	Citations
181	G-protein activity requirement for polymethylmethacrylate and titanium particle-induced fibroblast interleukin-6 and monocyte chemoattractant protein-1 releasein vitro. Journal of Biomedical Materials Research Part B, 2000, 51, 360-368.	3.1	25
182	Factors Associated with Opioid Use in a Cohort of Patients Presenting for Surgery. Pain Research and Treatment, 2015, 2015, 1-8.	1.7	25
183	Preconditioned or IL4-Secreting Mesenchymal Stem Cells Enhanced Osteogenesis at Different Stages. Tissue Engineering - Part A, 2019, 25, 1096-1103.	3.1	25
184	NFâ€ºB decoy oligodeoxynucleotide inhibits wear particleâ€induced inflammation in a murine calvarial model. Journal of Biomedical Materials Research - Part A, 2015, 103, 3872-3878.	4.0	24
185	Cryptotanshinone Protects Cartilage against Developing Osteoarthritis through the miR-106a-5p/GLIS3 Axis. Molecular Therapy - Nucleic Acids, 2018, 11, 170-179.	5.1	24
186	Trained murine mesenchymal stem cells have antiâ€inflammatory effect on macrophages, but defective regulation on Tâ€cell proliferation. FASEB Journal, 2019, 33, 4203-4211.	0.5	24
187	Revision total hip arthroplasty in juvenile chronic arthritis: 17 revisions in 11 patients followed for 4â€“12 years. Monthly Notices of the Royal Astronomical Society: Letters, 2006, 77, 242-250.	3.3	23
188	Kinetics of polymethylmethacrylate particle-induced inhibition of osteoprogenitor differentiation and proliferation. Journal of Orthopaedic Research, 2007, 25, 450-457.	2.3	23
189	Validation and quantification of anin vitro model of continuous infusion of submicron-sized particles. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2008, 84B, 328-333.	3.4	23
190	In vivo murine model of continuous intramedullary infusion of particlesâ€”A preliminary study. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2009, 88B, 250-253.	3.4	23
191	Ingrowth of bone into pores in titanium chambers implanted in rabbits: Effect of pore cross-sectional shape in the presence of dynamic shear. Journal of Biomedical Materials Research Part B, 1993, 27, 247-253.	3.1	22
192	The effect of a silane coupling agent on the bond strength of bone cement and cobalt-chrome alloy. , 2000, 49, 127-133.		22
193	Role of direct estrogen receptor signaling in wear particle-induced osteolysis. Biomaterials, 2013, 34, 641-650.	11.4	22
194	Mutant monocyte chemoattractant protein 1 protein attenuates migration of and inflammatory cytokine release by macrophages exposed to orthopedic implant wear particles. Journal of Biomedical Materials Research - Part A, 2014, 102, 3291-3297.	4.0	22
195	Emperor's new clothes: Is particle disease really infected particle disease?. Journal of Orthopaedic Research, 2016, 34, 1497-1504.	2.3	22
196	Cancellous Impaction Bone Grafting of Acetabular Defects in Complex Primary and Revision Total Hip Arthroplasty. Orthopedics, 2012, 35, e306-12.	1.1	22
197	Human Mesenchymal Stem Cellâ€Derived Miniature Joint System for Disease Modeling and Drug Testing. Advanced Science, 2022, 9, e2105909.	11.2	22
198	Can a Conical Implant Successfully Address Complex Anatomy in Primary THA? Radiographs and Hip Scores at Early Followup. Clinical Orthopaedics and Related Research, 2016, 474, 459-464.	1.5	21

#	Article	IF	Citations
199	Danger of frustrated sensors: Role of Toll-like receptors and NOD-like receptors in aseptic and septic inflammations around total hip replacements. Journal of Orthopaedic Translation, 2017, 10, 68-85.	3.9	21
200	Tracking Cell Transplants in Femoral Osteonecrosis with Magnetic Resonance Imaging: A Proof-of-Concept Study in Patients. Clinical Cancer Research, 2018, 24, 6223-6229.	7.0	21
201	Modifying MSC Phenotype to Facilitate Bone Healing: Biological Approaches. Frontiers in Bioengineering and Biotechnology, 2020, 8, 641.	4.1	21
202	Intermittent micromotion and polyethylene particles inhibit bone ingrowth into titanium chambers in rabbits. Journal of Applied Biomaterials: an Official Journal of the Society for Biomaterials, 1995, 6, 161-165.	1.2	20
203	Proinflammatory mediator release in response to particle challenge: Studies using the bone harvest chamber. Journal of Biomedical Materials Research Part B, 1999, 48, 434-439.	3.1	20
204	High Complication Rate in Revision Total Hip Arthroplasty in Juvenile Idiopathic Arthritis. Clinical Orthopaedics and Related Research, 2014, 472, 637-644.	1.5	20
205	Suboptimal patellofemoral alignment is associated with poor clinical outcome scores after primary total knee arthroplasty. Archives of Orthopaedic and Trauma Surgery, 2019, 139, 249-254.	2.4	20
206	Identification of periprosthetic joint infection after total hip arthroplasty. Journal of Orthopaedic Translation, 2015, 3, 21-25.	3.9	19
207	Exposure of polyethylene particles induces interferon-Î³ expression in a natural killer T lymphocyte and dendritic cell coculture systemin vitro: A preliminary study. Journal of Biomedical Materials Research - Part A, 2015, 103, 71-75.	4.0	19
208	Efficacy of motivational-interviewing and guided opioid tapering support for patients undergoing orthopedic surgery (MI-Opioid Taper): A prospective, assessor-blind, randomized controlled pilot trial. EClinicalMedicine, 2020, 28, 100596.	7.1	19
209	The routine use of synovial alpha-defensin is not necessary. Bone and Joint Journal, 2020, 102-B, 593-599.	4.4	19
210	Outcome of total hip arthroplasty in small-proportioned patients. Journal of Arthroplasty, 2000, 15, 27-34.	3.1	18
211	Expression of nitric oxide, peroxynitrite, and apoptosis in loose total hip replacements. Journal of Biomedical Materials Research Part B, 2003, 66A, 541-549.	3.1	18
212	Cortical Strut Allograft Support of Modular Femoral Junctions During Revision Total Hip Arthroplasty. Journal of Arthroplasty, 2017, 32, 1586-1592.	3.1	18
213	Weight Gain After Primary Total Knee Arthroplasty Is Associated With Accelerated Time to Revision for Aseptic Loosening. Journal of Arthroplasty, 2017, 32, 2167-2170.	3.1	18
214	<sup />Murine Model of Progressive Orthopedic Wear Particle-Induced Chronic Inflammation and Osteolysis. Tissue Engineering - Part C: Methods, 2017, 23, 1003-1011.	2.1	18
215	Treatment of Secondary Osteonecrosis of the Knee With Local Debridement and Osteoprogenitor Cell Grafting. Journal of Arthroplasty, 2015, 30, 1892-1896.	3.1	17
216	Computer Navigation vs Conventional Total Hip Arthroplasty: AÂMedicare Database Analysis. Journal of Arthroplasty, 2019, 34, 1994-1998.e1.	3.1	17

#	Article	IF	Citations
217	Interleukinâ€4 repairs wear particle induced osteolysis by modulating macrophage polarization and bone turnover. Journal of Biomedical Materials Research - Part A, 2021, 109, 1512-1520.	4.0	17
218	The effect of genetically modified platelet-derived growth factor-BB over-expressing mesenchymal stromal cells during core decompression for steroid-associated osteonecrosis of the femoral head in rabbits. Stem Cell Research and Therapy, 2021, 12, 503.	5.5	17
219	Macrophage Polarization and the Osteoimmunology of Periprosthetic Osteolysis. Current Osteoporosis Reports, 2022, 20, 43-52.	3.6	17
220	Modulation of bone ingrowth and tissue differentiation by local infusion of interleukin-10 in the presence of ultra-high molecular weight polyethylene (UHMWPE) wear particles. Journal of Biomedical Materials Research Part B, 2003, 65A, 43-50.	3.1	16
221	Exogenous MC3T3 Preosteoblasts Migrate Systemically and Mitigate the Adverse Effects of Wear Particles. Tissue Engineering - Part A, 2012, 18, 2559-2567.	3.1	16
222	Tibiofemoral Dislocation After Total Knee Arthroplasty. Journal of Arthroplasty, 2016, 31, 2282-2285.	3.1	16
223	Mouse femoral intramedullary injection model: Technique and microCT scan validation. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2008, 84B, 286-290.	3.4	15
224	Continuous intramedullary polymer particle infusion using a murine femoral explant model. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2008, 87B, 440-446.	3.4	15
225	Angiotensin receptor blockade mimics the effect of exercise on recovery after orthopaedic trauma by decreasing pain and improving muscle regeneration. Journal of Physiology, 2020, 598, 317-329.	2.9	15
226	A Review of Biomimetic Topographies and Their Role in Promoting Bone Formation and Osseointegration: Implications for Clinical Use. Biomimetics, 2022, 7, 46.	3.3	15
227	Modulation of allograft incorporation by continuous infusion of growth factors over a prolonged duration in vivo. Bone, 2007, 41, 386-392.	2.9	14
228	Twoâ€step stem cell therapy improves bone regeneration compared to concentrated bone marrow therapy. Journal of Orthopaedic Research, 2019, 37, 1318-1328.	2.3	14
229	Suppression of <scp>NFâ€ÎºB</scp>â€induced chronic inflammation mitigates inflammatory osteolysis in the murine continuous polyethylene particle infusion model. Journal of Biomedical Materials Research - Part A, 2021, 109, 1828-1839.	4.0	14
230	Joint Replacement Surgery and the Innate Immune System. Journal of Long-Term Effects of Medical Implants, 2014, 24, 253-257.	0.7	14
231	Effects of particulate high-density polyethylene and titanium alloy on tissue ingrowth into bone harvest chamber in rabbits. Journal of Applied Biomaterials: an Official Journal of the Society for Biomaterials, 1995, 6, 27-33.	1.2	13
232	Effects of local infusion of OP-1 on particle-induced and NSAID-induced inhibition of bone ingrowthin vivo. Journal of Biomedical Materials Research - Part A, 2006, 79A, 740-746.	4.0	13
233	Effects of a p38 MAP kinase inhibitor on bone ingrowth and tissue differentiation in rabbit chambers. Journal of Biomedical Materials Research - Part A, 2007, 81A, 310-316.	4.0	13
234	Outcome of Primary Total Hip Arthroplasty in Charnley Class C Patients with Juvenile Idiopathic Arthritis. Journal of Arthroplasty, 2011, 26, 1182-1188.	3.1	13

#	Article	IF	Citations
235	Cell-Based and Scaffold-Based Therapies for Joint Preservation in Early-Stage Osteonecrosis of the Femoral Head. JBJS Reviews, 2019, 7, e5-e5.	2.0	13
236	Effect of porosity of a functionally-graded scaffold for the treatment of corticosteroid-associated osteonecrosis of the femoral head in rabbits. Journal of Orthopaedic Translation, 2021, 28, 90-99.	3.9	13
237	UHMWPE wear debris upregulates mononuclear cell proinflammatory gene expression in a novel murine model of intramedullary particle disease. Monthly Notices of the Royal Astronomical Society: Letters, 2005, 76, 412-20.	3.3	13
238	Histomorphometric analysis of the intramedullary bone response to titanium particles in wildâ€type and ILâ€1R1 knockâ€out mice: A preliminary study. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2008, 84B, 559-570.	3.4	12
239	Polymethylmethacrylate particle exposure causes changes in p38 MAPK and TGFâ€Î² signaling in differentiating MC3T3â€E1 cells. Journal of Biomedical Materials Research - Part A, 2010, 94A, 234-240.	4.0	12
240	Femoral Nerve Catheters Improve Home Disposition and Pain in Hip Fracture Patients Treated With Total Hip Arthroplasty. Journal of Arthroplasty, 2017, 32, 3434-3437.	3.1	12
241	Strategies for Weight Reduction Prior to Total Joint Arthroplasty. Journal of Bone and Joint Surgery - Series A, 2018, 100, 1888-1896.	3.0	12
242	Proximal Femoral Shape Changes the Risk of a Leg Length Discrepancy After Primary Total Hip Arthroplasty. Journal of Arthroplasty, 2018, 33, 3699-3703.	3.1	12
243	Total Knee Arthroplasty Has A Positive Effect on Patients With Low Mental Health Scores. Journal of Arthroplasty, 2020, 35, 112-115.	3.1	12
244	Reimbursement and Complications in Outpatient vs Inpatient Unicompartmental Arthroplasty. Journal of Arthroplasty, 2020, 35, S86-S91.	3.1	12
245	How to stop using gadolinium chelates for magnetic resonance imaging: clinical-translational experiences with ferumoxytol. Pediatric Radiology, 2022, 52, 354-366.	2.0	12
246	The efficacy of lapine preconditioned or genetically modified IL4 over-expressing bone marrow-derived mesenchymal stromal cells in corticosteroid-associated osteonecrosis of the femoral head in rabbits. Biomaterials, 2021, 275, 120972.	11.4	12
247	OPâ€1 (BMPâ€7) stimulates osteoprogenitor cell differentiation in the presence of polymethylmethacrylate particles. Journal of Biomedical Materials Research - Part A, 2010, 94A, 485-488.	4.0	11
248	Orthopaedic wear particleâ€induced bone loss and exogenous macrophage infiltration is mitigated by local infusion of NFâ€ÎºB decoy oligodeoxynucleotide. Journal of Biomedical Materials Research - Part A, 2017, 105, 3169-3175.	4.0	11
249	Letter: Particle disease really does exist. Response: Particle disease, late loosening and Occamâ€™s razor.. Monthly Notices of the Royal Astronomical Society: Letters, 2018, 89, 133-136.	3.3	11
250	Venous thromboprophylaxis after total hip arthroplasty: aspirin, warfarin, enoxaparin, or factor Xa inhibitors?. HIP International, 2020, 30, 564-571.	1.7	11
251	Encapsulated Mesenchymal Stromal Cell Microbeads Promote Endogenous Regeneration of Osteoarthritic Cartilage Ex Vivo. Advanced Healthcare Materials, 2021, 10, 2002118.	7.6	11
252	The Effects of Macrophage Phenotype on Osteogenic Differentiation of MSCs in the Presence of Polyethylene Particles. Biomedicines, 2021, 9, 499.	3.2	11

#	Article	IF	Citations
253	Diagnosis and Management of Extra-articular Causes of Pain After Total Knee Arthroplasty. Instructional Course Lectures, 2015, 64, 381-8.	0.2	11
254	Novel Techniques and Future Perspective for Investigating Critical-Size Bone Defects. Bioengineering, 2022, 9, 171.	3.5	11
255	New bone formation by murine osteoprogenitor cells cultured on corticocancellous allograft bone. Journal of Orthopaedic Research, 2008, 26, 1660-1664.	2.3	10
256	Direct subcutaneous injection of polyethylene particles over the murine calvaria results in dramatic osteolysis. International Orthopaedics, 2013, 37, 1393-1398.	1.9	10
257	Introduction of New Technologies in Orthopaedic Surgery. JBJS Reviews, 2016, 4, .	2.0	10
258	Effect of Computer Navigation on Complication Rates Following Unicompartmental Knee Arthroplasty. Journal of Arthroplasty, 2018, 33, 3437-3440.e1.	3.1	10
259	Controlled Release of Growth Factors on Allograft Bone inÂvitro. Clinical Orthopaedics and Related Research, 2008, 466, 1905-1911.	1.5	9
260	Quantitation of Bone Area in Undecalcified Frozen Sections With Fluorescent Microscopy. Journal of Histotechnology, 2008, 31, 15-17.	0.5	9
261	Hip arthroplasty for treatment of advanced osteonecrosis: comprehensive review of implant options, outcomes and complications. Orthopedic Research and Reviews, 2016, Volume 8, 13-29.	1.1	9
262	Modified Kerboul Angle Predicts Outcome of Core Decompression With or Without Additional Cell Therapy. Journal of Arthroplasty, 2021, 36, 1879-1886.	3.1	9
263	The Role of Macrophages in the Biological Reaction to Wear Debris from Artificial Joints. Journal of Long-Term Effects of Medical Implants, 2016, 26, 303-309.	0.7	9
264	Allograft Alternatives: Bone Substitutes and Beyond. Orthopedics, 2010, 33, 661.	1.1	9
265	Different effects of phagocytosable particles during bone formation versus remodeling. , 1996, 33, 153-158.		8
266	Use of Cortical Strut Allograft After Extended Trochanteric Osteotomy in Revision Total Hip Arthroplasty. Journal of Arthroplasty, 2017, 32, 1599-1605.	3.1	8
267	Treating Titanium Particle-Induced Inflammation with Genetically Modified NF-ÎºB Sensing IL-4 Secreting or Preconditioned Mesenchymal Stem Cells in Vitro. ACS Biomaterials Science and Engineering, 2019, 5, 3032-3038.	5.2	8
268	Effect of Aging on the Macrophage Response to Titanium Particles. Journal of Orthopaedic Research, 2020, 38, 405-416.	2.3	8
269	Preoperative Factors Associated with Remote Postoperative Pain Resolution and Opioid Cessation in a Mixed Surgical Cohort: Post Hoc Analysis of a Perioperative Gabapentin Trial . Journal of Pain Research, 2020, Volume 13, 2959-2970.	2.0	8
270	The efficacy of core decompression for steroidâ€associated osteonecrosis of the femoral head in rabbits. Journal of Orthopaedic Research, 2021, 39, 1441-1451.	2.3	8

#	Article	IF	Citations
271	Knee or Spine Surgery First? A Survey of Treatment Order for Patients With Concurrent Degenerative Knee and Lumbar Spinal Disorders. Journal of Arthroplasty, 2020, 35, 2039-2043.	3.1	8
272	Cell spheroids are as effective as single cells suspensions in the treatment of critical-sized bone defects. BMC Musculoskeletal Disorders, 2021, 22, 401.	1.9	8
273	Return to work and productivity loss after surgery: A health economic evaluation. International Journal of Surgery, 2021, 95, 106100.	2.7	8
274	Case Report: Pseudotumor associated with corrosion of a femoral component with a modular neck and a ceramic-on-polyethylene bearing. Journal of Long-Term Effects of Medical Implants, 2014, 24, 1-5.	0.7	8
275	Innate Immunity Sensors Participating in Pathophysiology of Joint Diseases: A Brief Overview. Journal of Long-Term Effects of Medical Implants, 2014, 24, 297-317.	0.7	8
276	Sex Differences in Mesenchymal Stem Cell Therapy With Gelatin-Based Microribbon Hydrogels in a Murine Long Bone Critical-Size Defect Model. Frontiers in Bioengineering and Biotechnology, 2021, 9, 755964.	4.1	8
277	Effectiveness of Dental Pulp-derived Stem Cells and Bone Marrowderived Mesenchymal Stromal Cells Implanted into a Murine Critical Bone Defect. Current Stem Cell Research and Therapy, 2022, 17, 480-491.	1.3	8
278	Total Knee Arthroplasty in Patients with Ipsilateral Fused Hip: A Technical Note. Clinics in Orthopedic Surgery, 2014, 6, 476.	2.2	7
279	Outcome of 4 Surgical Treatments for Wear and Osteolysis of Cementless Acetabular Components. Journal of Arthroplasty, 2017, 32, 2799-2805.	3.1	7
280	Initial Presentation and Progression of Secondary Osteonecrosis of the Knee. Journal of Arthroplasty, 2020, 35, 2798-2806.	3.1	7
281	Use of Total Hip Arthroplasty in Patients Under 21 Years Old: A US Population Analysis. Journal of Arthroplasty, 2021, 36, 3928-3933.e1.	3.1	7
282	The 2021 Association Research Circulation Osseous Classification for Early-Stage Osteonecrosis of the Femoral Head to Computed Tomographyâ€“Based Study. Journal of Arthroplasty, 2022, 37, 1074-1082.	3.1	7
283	Effects of intermittent micromotion versus polymer particles on tissue ingrowth: Experiment using a micromotion chamber implanted in rabbits. Journal of Applied Biomaterials: an Official Journal of the Society for Biomaterials, 1994, 5, 117-123.	1.2	6
284	Polyethylene Wear and Osteolysis Is Associated With High Revision Rate of a Small Sized Porous Coated THA in Patients With Hip Dysplasia. Journal of Arthroplasty, 2014, 29, 1373-1377.	3.1	6
285	Recent advances in total joint replacement. Journal of Orthopaedic Research, 2020, 38, 1413-1413.	2.3	6
286	Outcomes of Cemented Total Knee Arthroplasty for Secondary Osteonecrosis of the Knee. Journal of Arthroplasty, 2021, 36, 550-559.	3.1	6
287	Different Effects of Intramedullary Injection of Mesenchymal Stem Cells During the Acute vs. Chronic Inflammatory Phase on Bone Healing in the Murine Continuous Polyethylene Particle Infusion Model. Frontiers in Cell and Developmental Biology, 2021, 9, 631063.	3.7	6
288	Ageing attenuates bone healing by mesenchymal stem cellsÂin a microribbon hydrogelÂwith a murine long bone critical-size defect model. Immunity and Ageing, 2022, 19, 14.	4.2	6

#	Article	IF	Citations
289	Effects of local infusion of TGF? on bone ingrowth in rabbit chambers. Journal of Biomedical Materials Research Part B, 2000, 53, 475-479.	3.1	5
290	MI TKA: A Risk Factor for Early Revision Surgery. Journal of Knee Surgery, 2012, 25, 423-428.	1.6	5
291	Immunohistochemical Analysis of Inflammatory Rheumatoid Synovial Tissues Using Anti-Human Podoplanin Monoclonal Antibody Panel. Monoclonal Antibodies in Immunodiagnosis and Immunotherapy, 2018, 37, 12-19.	1.6	5
292	Protocol-Driven Revision for Stiffness After Total Knee Arthroplasty Improves Motion and Clinical Outcomes. Journal of Arthroplasty, 2018, 33, 2952-2955.	3.1	5
293	Osteogenic ability of rat bone marrow concentrate is at least as efficacious as mesenchymal stem cells in vitro. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2019, 107, 2500-2506.	3.4	5
294	Statin use is associated with less postoperative cardiac arrhythmia after total hip arthroplasty. HIP International, 2019, 29, 618-623.	1.7	5
295	Treatment of Critical Size Femoral Bone Defects with Biomimetic Hybrid Scaffolds of 3D Plotted Calcium Phosphate Cement and Mineralized Collagen Matrix. International Journal of Molecular Sciences, 2022, 23, 3400.	4.1	5
296	Inducible nitric oxide synthase messenger RNA levels in hip periprosthetic tissue: A preliminary study. , 1998, 40, 419-424.		4
297	Molecular profile of osteoprogenitor cells seeded on allograft bone. Journal of Tissue Engineering and Regenerative Medicine, 2011, 5, 704-711.	2.7	4
298	Optimization and Characterization of Calcium Phosphate Transfection in Mesenchymal Stem Cells. Tissue Engineering - Part C: Methods, 2019, 25, 543-552.	2.1	4
299	Bone Regeneration by Controlled Release of Bone Morphogenetic Protein-2: A Rabbit Spinal Fusion Chamber Molecular Study. Tissue Engineering - Part A, 2019, 25, 1356-1368.	3.1	4
300	Selective screw fixation is associated with early failure of primary acetabular components for aseptic loosening. Journal of Orthopaedic Research, 2020, 38, 2429-2433.	2.3	4
301	Nonoperative and Operative Bone and Cartilage Regeneration and Orthopaedic Biologics of the Hip: An Orthoregeneration Network (ON) Foundation HipÂReview. Arthroscopy - Journal of Arthroscopic and Related Surgery, 2022, 38, 643-656.	2.7	4
302	Mesenchymal Stem Cells and NF-Î²B Sensing Interleukin-4 Over-Expressing Mesenchymal Stem Cells Are Equally Effective in Mitigating Particle-Associated Chronic Inflammatory Bone Loss in Mice. Frontiers in Cell and Developmental Biology, 2021, 9, 757830.	3.7	4
303	Suppression of NF-Î²B signaling mitigates polyethylene wear particle-induced inflammatory response. Inflammation and Cell Signaling, 2014, 1, .	1.6	4
304	Host Response to Orthopedic Implants (Metals and Plastics). , 2015, , 315-373.		3
305	Cytokines as a predictor of clinical response following hip arthroscopy: minimum 2-year follow-up. Journal of Hip Preservation Surgery, 2016, 3, 229-235.	1.3	3
306	Perioperative Statin Use May Reduce Postoperative Arrhythmia Rates After Total Joint Arthroplasty. Journal of Arthroplasty, 2021, 36, 3401-3405.	3.1	3

#	Article	IF	Citations
307	Applying deep learning to quantify empty lacunae in histologic sections of osteonecrosis of the femoral head. Journal of Orthopaedic Research, 2022, 40, 1801-1809.	2.3	3
308	Effect on Osteogenic Differentiation of Genetically Modified IL4 or PDGF-BB Over-Expressing and IL4-PDGF-BB Co-Over-Expressing Bone Marrow-Derived Mesenchymal Stromal Cells In Vitro. Bioengineering, 2021, 8, 165.	3.5	3
309	Editorial Comment: 2017 Hip Society Proceedings. Clinical Orthopaedics and Related Research, 2018, 476, 214-215.	1.5	2
310	Modulating Innate Inflammatory Reactions in the Application of Orthopedic Biomaterials. , 2018, , 199-218.		2
311	Bearing Surfaces for Joint Replacement: New Materials or New Problems. , 2014, , 13-20.		2
312	Macrophages Modulate the Function of MSC- and iPSC-Derived Fibroblasts in the Presence of Polyethylene Particles. International Journal of Molecular Sciences, 2021, 22, 12837.	4.1	2
313	Editorial Comment: ABJS Carl T. Brighton Workshop on Implant Wear and Tribocorrosion of Total Joint Replacements. Clinical Orthopaedics and Related Research, 2014, 472, 3650-3651.	1.5	1
314	Musculoskeletal regeneration research network: A global initiative. Journal of Orthopaedic Translation, 2015, 3, 160-165.	3.9	1
315	Improved Range of Motion and Patient-Reported Outcome Scores With Fixed-Bearing Revision Total Knee Arthroplasty for Suboptimal Axial Implant Rotation. Journal of Arthroplasty, 2019, 34, 1174-1178.	3.1	1
316	Increased NF-Î²B Activity in Osteoprogenitor-Lineage Cells Impairs the Balance of Bone Versus Fat in the Marrow of Skeletally Mature Mice. Regenerative Engineering and Translational Medicine, 2020, 6, 69-77.	2.9	1
317	Response to Letter to the Editor on â€œDiagnosis of Osteonecrosis of the Femoral Head: Too Little, Too Late, and Independent of Etiologyâ€• Journal of Arthroplasty, 2021, 36, e12-e13.	3.1	1
318	Management of Morbidity and Mortality in a New Zealand White Rabbit Model of SteroidInduced Osteonecrosis of the Femoral Head. Comparative Medicine, 2021, 71, 86-98.	1.0	1
319	Articulating vs Static Spacers for Native Knee Infection in the Setting of Degenerative Joint Disease. Arthroplasty Today, 2021, 8, 138-144.	1.6	1
320	Concentrated autologous bone marrow aspirate is not â€œstem cellâ€•therapy in the repair of nonunions and bone defects. Biomaterials and Biosystems, 2021, 2, 100017.	2.2	1
321	Effect of size, concentration, surface area, and volume of polymethylmethacrylate particles on human macrophages in vitro. Journal of Biomedical Materials Research Part B, 1996, 30, 463-473.	3.1	1
322	Biomaterials in Orthopaedics. , 2019, , 301-307.		1
323	The Hip in Juvenile Idiopathic Arthritis. The Open Orthopaedics Journal, 2020, 14, 88-94.	0.2	1
324	The Biologic Response to Bearing Materials. Orthopaedic Knowledge Online, 2016, 14, .	0.0	1

#	Article	IF	Citations
325	Staging Bilateral Total Knee Arthroplasties Reduces Alignment Outliers. Journal of Arthroplasty, 2022, 37, 694-698.	3.1	1
326	Diagnosis and Management of Intra-articular Causes of Pain After Total Knee Arthroplasty. Instructional Course Lectures, 2015, 64, 389-401.	0.2	1
327	CORR Insights: Do Patients Lose Weight After Joint Arthroplasty Surgery? A Systematic Review. Clinical Orthopaedics and Related Research, 2013, 471, 299-300.	1.5	0
328	Editorial Comment: Symposium: 2013 Hip Society Proceedings. Clinical Orthopaedics and Related Research, 2014, 472, 415-416.	1.5	0
329	Editorial Comment: 2014 Hip Society Proceedings. Clinical Orthopaedics and Related Research, 2015, 473, 430-431.	1.5	0
330	Editorial Comment: 2015 Hip Society Proceedings. Clinical Orthopaedics and Related Research, 2016, 474, 319-320.	1.5	0
331	Response to Letter to the Editor on â€˜Tibiofemoral Dislocation After Total Knee Arthroplastyâ€™. Journal of Arthroplasty, 2017, 32, 700.	3.1	0
332	Response to Letter to the Editor on â€œWeight Gain After Primary Total Knee Arthroplasty is Associated With Accelerated Time to Revision for Aseptic Looseningâ€• Journal of Arthroplasty, 2017, 32, 3258.	3.1	0
333	Aging and Cell Therapy for the Treatment of Osteonecrosis of the Femoral Head. The Journal of Hip Surgery, 2017, 01, 003-006.	0.1	0
334	Production of GFP and Luciferase-Expressing Reporter Macrophages for In Vivo Bioluminescence Imaging. Methods in Molecular Biology, 2018, 1790, 99-111.	0.9	0
335	A Tissue Engineering Approach for Treating Early Osteonecrosis of the Femoral Head. Regenerative Engineering and Translational Medicine, 2018, 4, 162-166.	2.9	0
336	Editorial Comment: 2018 Hip Society Proceedings. Clinical Orthopaedics and Related Research, 2019, 477, 295-296.	1.5	0
337	CORR InsightsÂ®: How Does Mortality Risk Change Over Time After Hip and Knee Arthroplasty?. Clinical Orthopaedics and Related Research, 2019, 477, 1422-1423.	1.5	0
338	CORR InsightsÂ®: CORRÂ® ORS Richard A. Brand Award: Disruption in Peroxisome Proliferator-Activated Receptor- Î³ (PPARG) Increases Osteonecrosis Risk Through Genetic Variance and Pharmacologic Modulation. Clinical Orthopaedics and Related Research, 2019, 477, 1813-1814.	1.5	0
339	Reply to Letter to the Editor on â€œMental Health Status Improves Following Total Knee Arthroplastyâ€• Journal of Arthroplasty, 2020, 35, 2685-2686.	3.1	0
340	Provider Personal and Demographic Characteristics and Patient Satisfaction in Orthopaedic Surgery. Journal of the American Academy of Orthopaedic Surgeons Global Research and Reviews, 2021, 5, .	0.7	0
341	CORR InsightsÂ®: Highly Crosslinked Polyethylene Liners Have Negligible Wear at 10 Years: A Radiostereometric Analysis Study. Clinical Orthopaedics and Related Research, 2021, Publish Ahead of Print, .	1.5	0
342	COX-2 Selective Inhibitors and Bone. BMC News and Views, 2004, 4, .	0.0	0

#	Article	IF	Citations
343	Influence of Wear Particles on Local and Systemic Immune System. , 2012, , 133-142.		0
344	Adverse Effects of By-products from Polymers Used for Joint Replacement. , 2015, , 225-256.		0
345	Notching of the Neck After Acetabular Constraint Necessitating Femoral Component Revision. Arthroplasty Today, 2021, 12, 32-35.	1.6	0
346	Diagnosis and Treatment of Femoral Head Osteonecrosis: A Protocol for Development of Evidence-Based Clinical Practice Guidelines. Surgical Technology International, 2021, 38, 371-378.	0.2	0
347	Efficacy of Periarticular Multimodal Analgesic Injection Containing High-Dose Ketorolac versus Triamcinolone in Early Postoperative Total Knee Arthroplasty: A Randomized Controlled Trial.. Surgical Technology International, 2022, 40, .	0.2	0