

# Stuart B Goodman

## List of Publications by Year in descending order

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347  
papers

20,034  
citations

13854

67  
h-index

16164

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. <i>Nature Nanotechnology</i> , 2016, 11, 986-994.	15.6	1,223
2	Inflammation, fracture and bone repair. <i>Bone</i> , 2016, 86, 119-130.	1.4	825
3	Macrophage polarization: An opportunity for improved outcomes in biomaterials and regenerative medicine. <i>Biomaterials</i> , 2012, 33, 3792-3802.	5.7	728
4	The future of biologic coatings for orthopaedic implants. <i>Biomaterials</i> , 2013, 34, 3174-3183.	5.7	673
5	Lymphocyte Cc Chemokine Receptor 9 and Epithelial Thymus-Expressed Chemokine (Teck) Expression Distinguish the Small Intestinal Immune Compartment. <i>Journal of Experimental Medicine</i> , 2000, 192, 761-768.	4.2	607
6	Multifunctional coatings to simultaneously promote osseointegration and prevent infection of orthopaedic implants. <i>Biomaterials</i> , 2016, 84, 301-314.	5.7	541
7	Mesenchymal stem cell-macrophage crosstalk and bone healing. <i>Biomaterials</i> , 2019, 196, 80-89.	5.7	528
8	Identification of the Human Skeletal Stem Cell. <i>Cell</i> , 2018, 175, 43-56.e21.	13.5	425
9	Wear particles, periprosthetic osteolysis and the immune system. <i>Biomaterials</i> , 2007, 28, 5044-5048.	5.7	295
10	Clinical recovery from surgery correlates with single-cell immune signatures. <i>Science Translational Medicine</i> , 2014, 6, 255ra131.	5.8	285
11	CCL2/CCR2, but not CCL5/CCR5, mediates monocyte recruitment, inflammation and cartilage destruction in osteoarthritis. <i>Annals of the Rheumatic Diseases</i> , 2017, 76, 914-922.	0.5	277
12	Current Modes of Failure in TKA: Infection, Instability, and Stiffness Predominate. <i>Clinical Orthopaedics and Related Research</i> , 2014, 472, 2197-2200.	0.7	220
13	Modulation of the Inflammatory Response and Bone Healing. <i>Frontiers in Endocrinology</i> , 2020, 11, 386.	1.5	205
14	Macrophagesâ€”Key cells in the response to wear debris from joint replacements. <i>Journal of Biomedical Materials Research - Part A</i> , 2013, 101, 3033-3045.	2.1	204
15	Particle disease: Biologic mechanisms of periprosthetic osteolysis in total hip arthroplasty. <i>Innate Immunity</i> , 2013, 19, 213-224.	1.1	201
16	Articular cartilage regeneration by activated skeletal stem cells. <i>Nature Medicine</i> , 2020, 26, 1583-1592.	15.2	194
17	The effects of immunomodulation by macrophage subsets on osteogenesis in vitro. <i>Stem Cell Research and Therapy</i> , 2016, 7, 15.	2.4	193
18	Stem cell homing in musculoskeletal injury. <i>Biomaterials</i> , 2011, 32, 395-409.	5.7	189

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19	Signaling Pathways for Tumor Necrosis Factor- $\alpha$ 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.	1.4	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	1.9	182
21	Chronic inflammation in biomaterial-induced periprosthetic osteolysis: NF- $\kappa$ B as a therapeutic target. Acta Biomaterialia, 2014, 10, 1-10.	4.1	181
22	Aging, inflammation, stem cells, and bone healing. Stem Cell Research and Therapy, 2016, 7, 44.	2.4	178
23	Revision joint replacement, wear particles, and macrophage polarization. Acta Biomaterialia, 2012, 8, 2815-2823.	4.1	177
24	The Sequential Expression Profiles of Growth Factors from Osteroprogenitors to OsteoblastsIn Vitro. Tissue Engineering, 2007, 13, 2311-2320.	4.9	172
25	Complications of ilioischial reconstruction rings in revision total hip arthroplasty. Journal of Arthroplasty, 2004, 19, 436-446.	1.5	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.	1.4	164
27	Effect of Perioperative Gabapentin on Postoperative Pain Resolution and Opioid Cessation in a Mixed Surgical Cohort. JAMA Surgery, 2018, 153, 303.	2.2	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.	1.1	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.	1.5	155
31	COX-2 selective NSAID decreases bone ingrowth in vivo. Journal of Orthopaedic Research, 2002, 20, 1164-1169.	1.2	145
32	Pro-inflammatory M1 macrophages promote Osteogenesis by mesenchymal stem cells via the COX-2-prostaglandin E2 pathway. Journal of Orthopaedic Research, 2017, 35, 2378-2385.	1.2	141
33	Mesenchymal stem cells homing to improve bone healing. Journal of Orthopaedic Translation, 2017, 9, 19-27.	1.9	141
34	Periprosthetic Osteolysis: Mechanisms, Prevention and Treatment. Journal of Clinical Medicine, 2019, 8, 2091.	1.0	136
35	Modulating osteogenesis of mesenchymal stem cells by modifying growth factor availability. Cytokine, 2010, 51, 305-310.	1.4	117
36	Effects of orthopaedic wear particles on osteoprogenitor cells. Biomaterials, 2006, 27, 6096-6101.	5.7	116

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37	Role of the Toll-like receptor pathway in the recognition of orthopedic implant wear-debris particles. <i>Biomaterials</i> , 2011, 32, 5535-5542.	5.7	113
38	Cellular chemotaxis induced by wear particles from joint replacements. <i>Biomaterials</i> , 2010, 31, 5045-5050.	5.7	112
39	What is the Trouble With Trunnions?. <i>Clinical Orthopaedics and Related Research</i> , 2014, 472, 3652-3658.	0.7	110
40	Early-stage osteonecrosis of the femoral head: where are we and where are we going in year 2018?. <i>International Orthopaedics</i> , 2018, 42, 1723-1728.	0.9	108
41	Engineered protein coatings to improve the osseointegration of dental and orthopaedic implants. <i>Biomaterials</i> , 2016, 83, 269-282.	5.7	105
42	Systematic characterization of 3D-printed PCL/ $\beta$ -TCP scaffolds for biomedical devices and bone tissue engineering: Influence of composition and porosity. <i>Journal of Materials Research</i> , 2018, 33, 1948-1959.	1.2	105
43	The effects of micromotion and particulate materials on tissue differentiation: Bone chamber studies in rabbits. <i>Acta Orthopaedica</i> , 1994, 65, 1-43.	1.4	104
44	Venous Thromboembolism Prophylaxis After TKA: Aspirin, Warfarin, Enoxaparin, or Factor Xa Inhibitors?. <i>Clinical Orthopaedics and Related Research</i> , 2017, 475, 2205-2213.	0.7	103
45	Contributions of human tissue analysis to understanding the mechanisms of loosening and osteolysis in total hip replacement. <i>Acta Biomaterialia</i> , 2014, 10, 2354-2366.	4.1	101
46	The Current Role of Structural Grafts and Cages in Revision Arthroplasty of the Hip. <i>Clinical Orthopaedics and Related Research</i> , 2004, 429, 193-200.	0.7	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. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2009, 89B, 252-263.	1.6	91
49	The biological response to orthopedic implants for joint replacement. II: Polyethylene, ceramics, PMMA, and the foreign body reaction. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2017, 105, 1685-1691.	1.6	91
50	Inflammation, ageing, and bone regeneration. <i>Journal of Orthopaedic Translation</i> , 2017, 10, 28-35.	1.9	91
51	Deficient Activity of the Nuclease MRE11A Induces T Cell Aging and Promotes Arthritogenic Effector Functions in Patients with Rheumatoid Arthritis. <i>Immunity</i> , 2016, 45, 903-916.	6.6	88
52	NF- $\kappa$ B as a Therapeutic Target in Inflammatory-Associated Bone Diseases. <i>Advances in Protein Chemistry and Structural Biology</i> , 2017, 107, 117-154.	1.0	88
53	Preconditioning of murine mesenchymal stem cells synergistically enhanced immunomodulation and osteogenesis. <i>Stem Cell Research and Therapy</i> , 2017, 8, 277.	2.4	86
54	miR-223-3p Inhibits Human Osteosarcoma Metastasis and Progression by Directly Targeting CDH6. <i>Molecular Therapy</i> , 2018, 26, 1299-1312.	3.7	85

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55	Immune modulation as a therapeutic strategy in bone regeneration. <i>Journal of Experimental Orthopaedics</i> , 2015, 2, 1.	0.8	82
56	Continuous Infusion of UHMWPE Particles Induces Increased Bone Macrophages and Osteolysis. <i>Clinical Orthopaedics and Related Research</i> , 2011, 469, 113-122.	0.7	80
57	Pharmacological rescue of diabetic skeletal stem cell niches. <i>Science Translational Medicine</i> , 2017, 9, .	5.8	80
58	Wear particulate and osteolysis. <i>Orthopedic Clinics of North America</i> , 2005, 36, 41-48.	0.5	79
59	Current state and future of joint replacements in the hip and knee. <i>Expert Review of Medical Devices</i> , 2008, 5, 383-393.	1.4	79
60	Etiologic Classification Criteria of ARCO on Femoral Head Osteonecrosis Part 1: Glucocorticoid-Associated Osteonecrosis. <i>Journal of Arthroplasty</i> , 2019, 34, 163-168.e1.	1.5	79
61	Macrophage polarization in response to wear particles in vitro. <i>Cellular and Molecular Immunology</i> , 2013, 10, 471-482.	4.8	78
62	In Vitro, In Vivo, and Tissue Retrieval Studies on Particulate Debris. <i>Clinical Orthopaedics and Related Research</i> , 1998, 352, 257-34.	0.7	76
63	The Direct Anterior Approach is Associated With Early Revision Total Hip Arthroplasty. <i>Journal of Arthroplasty</i> , 2017, 32, 1001-1005.	1.5	76
64	miR-216a inhibits osteosarcoma cell proliferation, invasion and metastasis by targeting CDK14. <i>Cell Death and Disease</i> , 2017, 8, e3103-e3103.	2.7	74
65	3D Printing in alloy design to improve biocompatibility in metallic implants. <i>Materials Today</i> , 2021, 45, 20-34.	8.3	74
66	IgE-mediated mast cell activation promotes inflammation and cartilage destruction in osteoarthritis. <i>ELife</i> , 2019, 8, .	2.8	74
67	In vitro reaction to orthopaedic biomaterials by macrophages and lymphocytes isolated from patients undergoing revision surgery. <i>Biomaterials</i> , 2001, 22, 253-259.	5.7	73
68	Selective inhibition of the MCP-1/CCR2 ligand/receptor axis decreases systemic trafficking of macrophages in the presence of UHMWPE particles. <i>Journal of Orthopaedic Research</i> , 2012, 30, 547-553.	1.2	72
69	Stem cell-mediated accelerated bone healing observed with in vivo molecular and small animal imaging technologies in a model of skeletal injury. <i>Journal of Orthopaedic Research</i> , 2009, 27, 295-302.	1.2	71
70	Osteochondral Tissue Chip Derived From iPSCs: Modeling OA Pathologies and Testing Drugs. <i>Frontiers in Bioengineering and Biotechnology</i> , 2019, 7, 411.	2.0	71
71	Causes of Instability After Total Knee Arthroplasty. <i>Journal of Arthroplasty</i> , 2014, 29, 360-364.	1.5	70
72	Human interleukin-1-induced murine osteoclastogenesis is dependent on RANKL, but independent of TNF- $\alpha$ . <i>Cytokine</i> , 2004, 26, 138-144.	1.4	69

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73	Local effect of IL-4 delivery on polyethylene particle induced osteolysis in the murine calvarium. <i>Journal of Biomedical Materials Research - Part A</i> , 2013, 101A, 1926-1934.	2.1	69
74	Factors Associated With Acute Pain Estimation, Postoperative Pain Resolution, Opioid Cessation, and Recovery. <i>JAMA Network Open</i> , 2019, 2, e190168.	2.8	69
75	Biocompatibility of total joint replacements: A review. <i>Journal of Biomedical Materials Research - Part A</i> , 2009, 90A, 603-618.	2.1	67
76	Recommendations and Considerations for the Use of Biologics in Orthopedic Surgery. <i>BioDrugs</i> , 2012, 26, 245-256.	2.2	66
77	Toll-like receptors and their adaptors are regulated in macrophages after phagocytosis of lipopolysaccharide-coated titanium particles. <i>Journal of Orthopaedic Research</i> , 2011, 29, 984-992.	1.2	65
78	Metabolic Control of Autoimmunity and Tissue Inflammation in Rheumatoid Arthritis. <i>Frontiers in Immunology</i> , 2021, 12, 652771.	2.2	65
79	Biomaterial Hypersensitivity: Is It Real? Supportive Evidence and Approach Considerations for Metal Allergic Patients following Total Knee Arthroplasty. <i>BioMed Research International</i> , 2015, 2015, 1-10.	0.9	64
80	Ageing Affects Bone Marrow Macrophage Polarization: Relevance to Bone Healing. <i>Regenerative Engineering and Translational Medicine</i> , 2016, 2, 98-104.	1.6	64
81	Osteonecrosis of the Femoral Head: an Updated Review of ARCO on Pathogenesis, Staging and Treatment. <i>Journal of Korean Medical Science</i> , 2021, 36, e177.	1.1	64
82	Total hip arthroplasty in juvenile chronic arthritis. <i>Journal of Arthroplasty</i> , 1998, 13, 259-265.	1.5	63
83	Porous tantalum in hip and knee reconstructive surgery. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2009, 89B, 242-251.	1.6	62
84	Knee arthroplasty in rheumatoid arthritis: A report from the Swedish Knee Arthroplasty Register on 4,381 primary operations 1985-1995. <i>Acta Orthopaedica</i> , 1997, 68, 545-553.	1.4	61
85	Patient Satisfaction After Total Knee Arthroplasty. <i>Orthopedic Clinics of North America</i> , 2017, 48, 421-431.	0.5	61
86	Increased Expression of Toll-like Receptors in Aseptic Loose Periprosthetic Tissues and Septic Synovial Membranes Around Total Hip Implants. <i>Journal of Rheumatology</i> , 2009, 36, 598-608.	1.0	59
87	Interleukin-10 inhibits polymethylmethacrylate particle induced interleukin-6 and tumor necrosis factor- $\alpha$ release by human monocyte/macrophages in vitro. <i>Biomaterials</i> , 2001, 22, 2067-2073.	5.7	58
88	The effects of a functionally-graded scaffold and bone marrow-derived mononuclear cells on steroid-induced femoral head osteonecrosis. <i>Biomaterials</i> , 2018, 187, 39-46.	5.7	58
89	Ultrahigh molecular weight polyethylene wear debris inhibits osteoprogenitor proliferation and differentiation <i>in vitro</i> . <i>Journal of Biomedical Materials Research - Part A</i> , 2009, 89A, 242-247.	2.1	57
90	Treatment of Periprosthetic Knee Infection With a Two-stage Protocol Using Static Spacers. <i>Clinical Orthopaedics and Related Research</i> , 2016, 474, 120-125.	0.7	57

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91	The basic science of periprosthetic osteolysis. <i>Instructional Course Lectures</i> , 2013, 62, 201-6.	0.2	57
92	Decreased osteogenesis in mesenchymal stem cells derived from the aged mouse is associated with enhanced NF- $\kappa$ B activity. <i>Journal of Orthopaedic Research</i> , 2017, 35, 281-288.	1.2	56
93	Customized, degradable, functionally graded scaffold for potential treatment of early stage osteonecrosis of the femoral head. <i>Journal of Orthopaedic Research</i> , 2018, 36, 1002-1011.	1.2	56
94	Precise immunomodulation of the M1 to M2 macrophage transition enhances mesenchymal stem cell osteogenesis and differs by sex. <i>Bone and Joint Research</i> , 2019, 8, 481-488.	1.3	56
95	Inflammation and its resolution and the musculoskeletal system. <i>Journal of Orthopaedic Translation</i> , 2017, 10, 52-67.	1.9	55
96	Role of Macrophages in the Biological Reaction to Wear Debris from Joint Replacements. <i>Journal of Long-Term Effects of Medical Implants</i> , 2014, 24, 259-265.	0.2	55
97	Periprosthetic Osteolysis: Induction of Vascular Endothelial Growth Factor From Human Monocyte/Macrophages by Orthopaedic Biomaterial Particles. <i>Journal of Bone and Mineral Research</i> , 2003, 18, 1573-1583.	3.1	54
98	Polyethylene wear in knee arthroplasty. <i>Acta Orthopaedica</i> , 1992, 63, 358-364.	1.4	53
99	Temporal effects of a COX-2-selective NSAID on bone ingrowth. <i>Journal of Biomedical Materials Research - Part A</i> , 2005, 72A, 279-287.	2.1	53
100	Single-cell mass cytometry reveals cross-talk between inflammation-dampening and inflammation-amplifying cells in osteoarthritic cartilage. <i>Science Advances</i> , 2020, 6, eaay5352.	4.7	52
101	Interleukin-1 modulates periprosthetic tissue formation in an intramedullary model of particle-induced inflammation. <i>Journal of Orthopaedic Research</i> , 2005, 23, 501-510.	1.2	51
102	Effects of orthopedic polymer particles on chemotaxis of macrophages and mesenchymal stem cells. <i>Journal of Biomedical Materials Research - Part A</i> , 2010, 94A, 1264-1269.	2.1	51
103	Characterization of macrophage polarizing cytokines in the aseptic loosening of total hip replacements. <i>Journal of Orthopaedic Research</i> , 2014, 32, 1241-1246.	1.2	51
104	Etiologic Classification Criteria of ARCO on Femoral Head Osteonecrosis Part 2: Alcohol-Associated Osteonecrosis. <i>Journal of Arthroplasty</i> , 2019, 34, 169-174.e1.	1.5	51
105	The role of the TH1 and TH2 immune responses in loosening and osteolysis of cemented total hip replacements. <i>Journal of Biomedical Materials Research Part B</i> , 2003, 64A, 693-697.	3.0	50
106	Innate Immune Reactions in Septic and Aseptic Osteolysis around Hip Implants. <i>Journal of Long-Term Effects of Medical Implants</i> , 2014, 24, 283-296.	0.2	50
107	Polymethylmethacrylate particles inhibit osteoblastic differentiation of bone marrow osteoprogenitor cells. <i>Journal of Biomedical Materials Research - Part A</i> , 2006, 77A, 850-856.	2.1	49
108	Proinflammatory mediator expression in a novel murine model of titanium-particle-induced intramedullary inflammation. <i>Journal of Biomedical Materials Research Part B</i> , 2004, 71B, 360-366.	3.0	48

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109	Inflammation and Bone Repair: From Particle Disease to Tissue Regeneration. <i>Frontiers in Bioengineering and Biotechnology</i> , 2019, 7, 230.	2.0	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. <i>Biomaterials</i> , 2008, 29, 3738-3742.	5.7	47
112	Fibroblast expression of C&C chemokines in response to orthopaedic biomaterial particle challenge in vitro. <i>Journal of Orthopaedic Research</i> , 2001, 19, 970-976.	1.2	46
113	Establishment of NF- $\kappa$ B sensing and interleukin-4 secreting mesenchymal stromal cells as an $\alpha$ -con-damand drug delivery system to modulate inflammation. <i>Cytotherapy</i> , 2017, 19, 1025-1034.	0.3	46
114	ARCO Consensus on the Pathogenesis of Non-traumatic Osteonecrosis of the Femoral Head. <i>Journal of Korean Medical Science</i> , 2021, 36, e65.	1.1	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 on orthopedic implants to modulate inflammatory response. <i>Biomaterials</i> , 2013, 34, 10287-10295.	5.7	45
117	Hematopoietic PBX-interacting protein mediates cartilage degeneration during the pathogenesis of osteoarthritis. <i>Nature Communications</i> , 2019, 10, 313.	5.8	45
118	Suppression of wear-particle-induced pro-inflammatory cytokine and chemokine production in macrophages via NF- $\kappa$ B decoy oligodeoxynucleotide: A preliminary report. <i>Acta Biomaterialia</i> , 2014, 10, 3747-3755.	4.1	44
119	NF- $\kappa$ B Decoy Oligodeoxynucleotide Enhanced Osteogenesis in Mesenchymal Stem Cells Exposed to Polyethylene Particle. <i>Tissue Engineering - Part A</i> , 2015, 21, 875-883.	1.6	44
120	Obesity is Associated With Early Total Hip Revision for Aseptic Loosening. <i>Journal of Arthroplasty</i> , 2016, 31, 217-220.	1.5	44
121	Obesity Is Independently Associated With Early Aseptic Loosening in Primary Total Hip Arthroplasty. <i>Journal of Arthroplasty</i> , 2018, 33, 882-886.	1.5	44
122	Systemic trafficking of macrophages induced by bone cement particles in nude mice. <i>Biomaterials</i> , 2008, 29, 4760-4765.	5.7	43
123	Mesenchymal stem cells in the aseptic loosening of total joint replacements. <i>Journal of Biomedical Materials Research - Part A</i> , 2017, 105, 1195-1207.	2.1	43
124	Periprosthetic bacterial biofilm and quorum sensing. <i>Journal of Orthopaedic Research</i> , 2018, 36, 2331-2339.	1.2	43
125	Modulation of mouse macrophage polarization <i>in vitro</i> using IL-4 delivery by osmotic pumps. <i>Journal of Biomedical Materials Research - Part A</i> , 2015, 103, 1339-1345.	2.1	42
126	A dysfunctional TRPV4-GSK3 $\beta$ pathway prevents osteoarthritic chondrocytes from sensing changes in extracellular matrix viscoelasticity. <i>Nature Biomedical Engineering</i> , 2021, 5, 1472-1484.	11.6	42



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127	Pharmacologic Modulation of Periprosthetic Osteolysis. <i>Clinical Orthopaedics and Related Research</i> , 2005, 430, 39-45.	0.7	41
128	The Effects of Medications on Bone. <i>Journal of the American Academy of Orthopaedic Surgeons</i> , The, 2007, 15, 450-460.	1.1	41
129	Local infusion of FGF-2 enhances bone ingrowth in rabbit chambers in the presence of polyethylene particles. <i>Journal of Biomedical Materials Research Part B</i> , 2003, 65A, 454-461.	3.0	40
130	Effect of a CCR1 receptor antagonist on systemic trafficking of MSCs and polyethylene particle-associated bone loss. <i>Biomaterials</i> , 2012, 33, 3632-3638.	5.7	40
131	Modified sliding trochanteric osteotomy in revision total hip arthroplasty. <i>Journal of Arthroplasty</i> , 2004, 19, 1039-1041.	1.5	39
132	Effects of sclerostin antibody on healing of a non-critical size femoral bone defect. <i>Journal of Orthopaedic Research</i> , 2013, 31, 155-163.	1.2	39
133	The effect of SDF-1 $\beta$ on low dose BMP-2 mediated bone regeneration by release from heparinized mineralized collagen type I matrix scaffolds in a murine critical size bone defect model. <i>Journal of Biomedical Materials Research - Part A</i> , 2016, 104, 2126-2134.	2.1	39
134	Recommendations and Considerations for the Use of Biologics in Orthopedic Surgery. <i>BioDrugs</i> , 2012, 26, 245-256.	2.2	38
135	The effect of local IL-4 delivery or CCL2 blockade on implant fixation and bone structural properties in a mouse model of wear particle induced osteolysis. <i>Journal of Biomedical Materials Research - Part A</i> , 2016, 104, 2255-2262.	2.1	38
136	Biocompatibility of poly(ethylene glycol)/poly(acrylic acid) interpenetrating polymer network hydrogel particles in RAW 264.7 macrophage and MG-63 osteoblast cell lines. <i>Journal of Biomedical Materials Research - Part A</i> , 2009, 91A, 894-902.	2.1	37
137	Toll-like receptors 2 and 4 are overexpressed in an experimental model of particle-induced osteolysis. <i>Journal of Biomedical Materials Research - Part A</i> , 2014, 102, 3004-3011.	2.1	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. <i>Journal of Clinical Anesthesia</i> , 2017, 39, 17-22.	0.7	37
139	NF- $\kappa$ B sensing IL-4 secreting mesenchymal stem cells mitigate the proinflammatory response of macrophages exposed to polyethylene wear particles. <i>Journal of Biomedical Materials Research - Part A</i> , 2018, 106, 2744-2752.	2.1	37
140	T-lymphocytes are not necessary for particulate polyethylene-induced macrophage recruitment: Histologic studies of the rat tibia. <i>Acta Orthopaedica</i> , 1994, 65, 157-160.	1.4	36
141	Macrophage Polarization and Activation in Response to Implant Debris: Influence by "Particle Disease" and "Ion Disease". <i>Journal of Long-Term Effects of Medical Implants</i> , 2014, 24, 267-281.	0.2	36
142	Mutant CCL2 protein coating mitigates wear particle-induced bone loss in a murine continuous polyethylene infusion model. <i>Biomaterials</i> , 2017, 117, 1-9.	5.7	36
143	Effect of osteogenic protein 1/collagen composite combined with impacted allograft around hydroxyapatite-coated titanium alloy implants is moderate. <i>Journal of Biomedical Materials Research Part B</i> , 2001, 55, 89-95.	3.0	35
144	Enhancement of BMP-2 Induced Bone Regeneration by SDF-1 $\beta$ Mediated Stem Cell Recruitment. <i>Tissue Engineering - Part A</i> , 2014, 20, 131112094536009.	1.6	35

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145	Smoking is associated with earlier time to revision of total knee arthroplasty. <i>Knee</i> , 2017, 24, 1182-1186.	0.8	35
146	CCL2, CCL5, and IGF1 participate in the immunomodulation of osteogenesis during M1/M2 transition <i>in vitro</i> . <i>Journal of Biomedical Materials Research - Part A</i> , 2017, 105, 3069-3076.	2.1	35
147	Outcome of Porous Tantalum Acetabular Components for Paprosky Type 3 and 4 Acetabular Defects. <i>Journal of Arthroplasty</i> , 2014, 29, 1318-1322.	1.5	34
148	Inhibition of TET1 prevents the development of osteoarthritis and reveals the 5hmC landscape that orchestrates pathogenesis. <i>Science Translational Medicine</i> , 2020, 12, .	5.8	34
149	Is There a Benefit to Modularity in Simplera™ Femoral Revisions?. <i>Clinical Orthopaedics and Related Research</i> , 2016, 474, 415-420.	0.7	33
150	Current Models for Development of Disease-Modifying Osteoarthritis Drugs. <i>Tissue Engineering - Part C: Methods</i> , 2021, 27, 124-138.	1.1	33
151	Titanium particles modulate expression of Toll-like receptor proteins. <i>Journal of Biomedical Materials Research - Part A</i> , 2010, 92A, 1528-1537.	2.1	32
152	Tumor necrosis factor primes and metal particles activate the NLRP3 inflammasome in human primary macrophages. <i>Acta Biomaterialia</i> , 2020, 108, 347-357.	4.1	32
153	Local delivery of mutant CCL2 protein reduced orthopaedic implant wear particle-induced osteolysis and inflammation <i>in vivo</i> . <i>Journal of Orthopaedic Research</i> , 2016, 34, 58-64.	1.2	31
154	Diagnosis and management of implant debris-associated inflammation. <i>Expert Review of Medical Devices</i> , 2020, 17, 41-56.	1.4	31
155	Macrophage Effects on Mesenchymal Stem Cell Osteogenesis in a Three-Dimensional <i>In Vitro</i> Bone Model. <i>Tissue Engineering - Part A</i> , 2020, 26, 1099-1111.	1.6	31
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