

Stuart B Goodman

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

326 papers	14,213 citations	60 h-index	107 g-index
355 ext. papers	17,155 ext. citations	5.7 avg, IF	6.84 L-index

#	Paper	IF	Citations
326	Iron oxide nanoparticles inhibit tumour growth by inducing pro-inflammatory macrophage polarization in tumour tissues. <i>Nature Nanotechnology</i> , 2016 , 11, 986-994	28.7	847
325	Macrophage polarization: an opportunity for improved outcomes in biomaterials and regenerative medicine. <i>Biomaterials</i> , 2012 , 33, 3792-802	15.6	595
324	The future of biologic coatings for orthopaedic implants. <i>Biomaterials</i> , 2013 , 34, 3174-83	15.6	569
323	Lymphocyte CC chemokine receptor 9 and epithelial thymus-expressed chemokine (TECK) expression distinguish the small intestinal immune compartment: Epithelial expression of tissue-specific chemokines as an organizing principle in regional immunity. <i>Journal of Experimental Medicine</i> , 2000 , 192, 761-8	16.6	560
322	Inflammation, fracture and bone repair. <i>Bone</i> , 2016 , 86, 119-30	4.7	537
321	Multifunctional coatings to simultaneously promote osseointegration and prevent infection of orthopaedic implants. <i>Biomaterials</i> , 2016 , 84, 301-314	15.6	422
320	Wear particles, periprosthetic osteolysis and the immune system. <i>Biomaterials</i> , 2007 , 28, 5044-8	15.6	258
319	Identification of the Human Skeletal Stem Cell. <i>Cell</i> , 2018 , 175, 43-56.e21	56.2	257
318	Mesenchymal stem cell-macrophage crosstalk and bone healing. <i>Biomaterials</i> , 2019 , 196, 80-89	15.6	233
317	Clinical recovery from surgery correlates with single-cell immune signatures. <i>Science Translational Medicine</i> , 2014 , 6, 255ra131	17.5	215
316	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	2.4	172
315	Current modes of failure in TKA: infection, instability, and stiffness predominate. <i>Clinical Orthopaedics and Related Research</i> , 2014 , 472, 2197-200	2.2	172
314	Stem cell homing in musculoskeletal injury. <i>Biomaterials</i> , 2011 , 32, 395-409	15.6	164
313	Particle disease: biologic mechanisms of periprosthetic osteolysis in total hip arthroplasty. <i>Innate Immunity</i> , 2013 , 19, 213-24	2.7	157
312	Macrophages-Key cells in the response to wear debris from joint replacements. <i>Journal of Biomedical Materials Research - Part A</i> , 2013 , 101, 3033-45	5.4	152
311	Signaling pathways for tumor necrosis factor-alpha and interleukin-6 expression in human macrophages exposed to titanium-alloy particulate debris in vitro. <i>Journal of Bone and Joint Surgery - Series A</i> , 1999 , 81, 603-15	5.6	150
310	Chronic inflammation in biomaterial-induced periprosthetic osteolysis: NF- κ B as a therapeutic target. <i>Acta Biomaterialia</i> , 2014 , 10, 1-10	10.8	149

309	The sequential expression profiles of growth factors from osteoprogenitors [correction of osteoprogenitors] to osteoblasts in vitro. <i>Tissue Engineering</i> , 2007 , 13, 2311-20		148
308	Revision joint replacement, wear particles, and macrophage polarization. <i>Acta Biomaterialia</i> , 2012 , 8, 2815-23	10.8	142
307	Complications of ilioischial reconstruction rings in revision total hip arthroplasty. <i>Journal of Arthroplasty</i> , 2004 , 19, 436-46	4.4	142
306	Effect of size, concentration, surface area, and volume of polymethylmethacrylate particles on human macrophages in vitro. <i>Journal of Biomedical Materials Research Part B</i> , 1996 , 30, 463-73		141
305	A pilot cohort study of the determinants of longitudinal opioid use after surgery. <i>Anesthesia and Analgesia</i> , 2012 , 115, 694-702	3.9	131
304	The effects of immunomodulation by macrophage subsets on osteogenesis in vitro. <i>Stem Cell Research and Therapy</i> , 2016 , 7, 15	8.3	125
303	Aging, inflammation, stem cells, and bone healing. <i>Stem Cell Research and Therapy</i> , 2016 , 7, 44	8.3	123
302	COX-2 selective NSAID decreases bone ingrowth in vivo. <i>Journal of Orthopaedic Research</i> , 2002 , 20, 1164-73	3.8	121
301	Modulating osteogenesis of mesenchymal stem cells by modifying growth factor availability. <i>Cytokine</i> , 2010 , 51, 305-10	4	102
300	Effects of orthopaedic wear particles on osteoprogenitor cells. <i>Biomaterials</i> , 2006 , 27, 6096-101	15.6	102
299	Effect of Perioperative Gabapentin on Postoperative Pain Resolution and Opioid Cessation in a Mixed Surgical Cohort: A Randomized Clinical Trial. <i>JAMA Surgery</i> , 2018 , 153, 303-311	5.4	102
298	Role of the Toll-like receptor pathway in the recognition of orthopedic implant wear-debris particles. <i>Biomaterials</i> , 2011 , 32, 5535-42	15.6	100
297	Cellular chemotaxis induced by wear particles from joint replacements. <i>Biomaterials</i> , 2010 , 31, 5045-50	15.6	99
296	Mesenchymal stem cells homing to improve bone healing. <i>Journal of Orthopaedic Translation</i> , 2017 , 9, 19-27	4.2	98
295	What is the trouble with trunnions?. <i>Clinical Orthopaedics and Related Research</i> , 2014 , 472, 3652-8	2.2	93
294	Contributions of human tissue analysis to understanding the mechanisms of loosening and osteolysis in total hip replacement. <i>Acta Biomaterialia</i> , 2014 , 10, 2354-66	10.8	86
293	Pro-inflammatory M1 macrophages promote Osteogenesis by mesenchymal stem cells via the COX-2-prostaglandin E2 pathway. <i>Journal of Orthopaedic Research</i> , 2017 , 35, 2378-2385	3.8	85
292	The effects of micromotion and particulate materials on tissue differentiation. Bone chamber studies in rabbits. <i>Acta Orthopaedica</i> , 1994 , 258, 1-43		85

291	Engineered protein coatings to improve the osseointegration of dental and orthopaedic implants. <i>Biomaterials</i> , 2016 , 83, 269-82	15.6	84
290	The current role of structural grafts and cages in revision arthroplasty of the hip. <i>Clinical Orthopaedics and Related Research</i> , 2004 , 193-200	2.2	82
289	Cell therapy for bone regeneration--bench to bedside. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2009 , 89, 252-63	3.5	81
288	Wear particulate and osteolysis. <i>Orthopedic Clinics of North America</i> , 2005 , 36, 41-8, vi	3.5	73
287	Current state and future of joint replacements in the hip and knee. <i>Expert Review of Medical Devices</i> , 2008 , 5, 383-93	3.5	70
286	In vitro reaction to orthopaedic biomaterials by macrophages and lymphocytes isolated from patients undergoing revision surgery. <i>Biomaterials</i> , 2001 , 22, 253-9	15.6	69
285	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	3.8	68
284	Continuous infusion of UHMWPE particles induces increased bone macrophages and osteolysis. <i>Clinical Orthopaedics and Related Research</i> , 2011 , 469, 113-22	2.2	68
283	Systematic characterization of 3D-printed PCL/βTCP scaffolds for biomedical devices and bone tissue engineering: influence of composition and porosity. <i>Journal of Materials Research</i> , 2018 , 33, 1948-1959	15.9	67
282	NF-κB as a Therapeutic Target in Inflammatory-Associated Bone Diseases. <i>Advances in Protein Chemistry and Structural Biology</i> , 2017 , 107, 117-154	5.3	66
281	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 , 101, 1926-34	5.4	66
280	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	3.5	65
279	miR-216a inhibits osteosarcoma cell proliferation, invasion and metastasis by targeting CDK14. <i>Cell Death and Disease</i> , 2017 , 8, e3103	9.8	65
278	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	3.8	65
277	Human interleukin-1-induced murine osteoclastogenesis is dependent on RANKL, but independent of TNF-α. <i>Cytokine</i> , 2004 , 26, 138-44	4	65
276	Immune modulation as a therapeutic strategy in bone regeneration. <i>Journal of Experimental Orthopaedics</i> , 2015 , 2, 1	2.3	64
275	Periprosthetic Osteolysis: Mechanisms, Prevention and Treatment. <i>Journal of Clinical Medicine</i> , 2019 , 8,	5.1	64
274	Guidelines for clinical diagnosis and treatment of osteonecrosis of the femoral head in adults (2019 version). <i>Journal of Orthopaedic Translation</i> , 2020 , 21, 100-110	4.2	63

273	The Direct Anterior Approach is Associated With Early Revision Total Hip Arthroplasty. <i>Journal of Arthroplasty</i> , 2017 , 32, 1001-1005	4.4	63
272	The biological response to orthopaedic implants for joint replacement: Part I: Metals. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2017 , 105, 2162-2173	3.5	62
271	Biocompatibility of total joint replacements: A review. <i>Journal of Biomedical Materials Research - Part A</i> , 2009 , 90, 603-18	5.4	62
270	Venous Thromboembolism Prophylaxis After TKA: Aspirin, Warfarin, Enoxaparin, or Factor Xa Inhibitors?. <i>Clinical Orthopaedics and Related Research</i> , 2017 , 475, 2205-2213	2.2	60
269	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, 547-53	3.8	60
268	Macrophage polarization in response to wear particles in vitro. <i>Cellular and Molecular Immunology</i> , 2013 , 10, 471-82	15.4	60
267	In Vitro, In Vivo, and Tissue Retrieval Studies on Particulate Debris. <i>Clinical Orthopaedics and Related Research</i> , 1998 , 352, 25???34	2.2	60
266	miR-223-3p Inhibits Human Osteosarcoma Metastasis and Progression by Directly Targeting CDH6. <i>Molecular Therapy</i> , 2018 , 26, 1299-1312	11.7	59
265	Articular cartilage regeneration by activated skeletal stem cells. <i>Nature Medicine</i> , 2020 , 26, 1583-1592	50.5	59
264	Inflammation, ageing, and bone regeneration. <i>Journal of Orthopaedic Translation</i> , 2017 , 10, 28-35	4.2	58
263	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, 984-92	3.8	57
262	The 2019 Revised Version of Association Research Circulation Osseous Staging System of Osteonecrosis of the Femoral Head. <i>Journal of Arthroplasty</i> , 2020 , 35, 933-940	4.4	57
261	Recommendations and Considerations for the Use of Biologics in Orthopedic Surgery. <i>BioDrugs</i> , 2012 , 26, 245-256	7.9	56
260	Modulation of the Inflammatory Response and Bone Healing. <i>Frontiers in Endocrinology</i> , 2020 , 11, 386	5.7	55
259	The basic science of periprosthetic osteolysis. <i>Instructional Course Lectures</i> , 2013 , 62, 201-6	1.3	54
258	Pharmacological rescue of diabetic skeletal stem cell niches. <i>Science Translational Medicine</i> , 2017 , 9,	17.5	53
257	Nontraumatic Osteonecrosis of the Femoral Head: Where Do We Stand Today?: A 5-Year Update. <i>Journal of Bone and Joint Surgery - Series A</i> , 2020 , 102, 1084-1099	5.6	52
256	Preconditioning of murine mesenchymal stem cells synergistically enhanced immunomodulation and osteogenesis. <i>Stem Cell Research and Therapy</i> , 2017 , 8, 277	8.3	52

255	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	32.3	52
254	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, 2067-73	15.6	52
253	Causes of instability after total knee arthroplasty. <i>Journal of Arthroplasty</i> , 2014 , 29, 360-4	4.4	51
252	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, 545-53		51
251	Porous tantalum in hip and knee reconstructive surgery. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2009 , 89, 242-51	3.5	50
250	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	4.1	50
249	Total hip arthroplasty in juvenile chronic arthritis: a consecutive series. <i>Journal of Arthroplasty</i> , 1998 , 13, 259-65	4.4	49
248	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, 1573-83	6.3	48
247	Characterization of macrophage polarizing cytokines in the aseptic loosening of total hip replacements. <i>Journal of Orthopaedic Research</i> , 2014 , 32, 1241-6	3.8	46
246	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 , 64, 693-7		46
245	Temporal effects of a COX-2-selective NSAID on bone ingrowth. <i>Journal of Biomedical Materials Research - Part A</i> , 2005 , 72, 279-87	5.4	46
244	Interleukin-1 modulates periprosthetic tissue formation in an intramedullary model of particle-induced inflammation. <i>Journal of Orthopaedic Research</i> , 2005 , 23, 501-10	3.8	45
243	Polyethylene wear in knee arthroplasty. A review. <i>Acta Orthopaedica</i> , 1992 , 63, 358-64		45
242	Patient Satisfaction After Total Knee Arthroplasty: A Realistic or Imaginary Goal?. <i>Orthopedic Clinics of North America</i> , 2017 , 48, 421-431	3.5	43
241	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, 137287	3	43
240	An in vivo murine model of continuous intramedullary infusion of polyethylene particles. <i>Biomaterials</i> , 2008 , 29, 3738-3742	15.6	43
239	Polymethylmethacrylate particles inhibit osteoblastic differentiation of bone marrow osteoprogenitor cells. <i>Journal of Biomedical Materials Research - Part A</i> , 2006 , 77, 850-6	5.4	43
238	Decreased osteogenesis in mesenchymal stem cells derived from the aged mouse is associated with enhanced NF- κ B activity. <i>Journal of Orthopaedic Research</i> , 2017 , 35, 281-288	3.8	42

237	Mutant MCP-1 protein delivery from layer-by-layer coatings on orthopedic implants to modulate inflammatory response. <i>Biomaterials</i> , 2013 , 34, 10287-95	15.6	42
236	Effects of orthopedic polymer particles on chemotaxis of macrophages and mesenchymal stem cells. <i>Journal of Biomedical Materials Research - Part A</i> , 2010 , 94, 1264-9	5.4	42
235	Composite hip prosthesis design. II. Simulation. <i>Journal of Biomedical Materials Research Part B</i> , 1998 , 39, 102-19		42
234	Aging Affects Bone Marrow Macrophage Polarization: Relevance to Bone Healing. <i>Regenerative Engineering and Translational Medicine</i> , 2016 , 2, 98-104	2.4	42
233	Proinflammatory mediator expression in a novel murine model of titanium-particle-induced intramedullary inflammation. <i>Journal of Biomedical Materials Research Part B</i> , 2004 , 71, 360-6		41
232	Systemic trafficking of macrophages induced by bone cement particles in nude mice. <i>Biomaterials</i> , 2008 , 29, 4760-5	15.6	40
231	Ultrahigh molecular weight polyethylene wear debris inhibits osteoprogenitor proliferation and differentiation in vitro. <i>Journal of Biomedical Materials Research - Part A</i> , 2009 , 89, 242-7	5.4	40
230	Osteochondral Tissue Chip Derived From iPSCs: Modeling OA Pathologies and Testing Drugs. <i>Frontiers in Bioengineering and Biotechnology</i> , 2019 , 7, 411	5.8	40
229	Treatment of Periprosthetic Knee Infection With a Two-stage Protocol Using Static Spacers. <i>Clinical Orthopaedics and Related Research</i> , 2016 , 474, 120-5	2.2	39
228	Suppression of wear-particle-induced pro-inflammatory cytokine and chemokine production in macrophages via NF- κ B decoy oligodeoxynucleotide: a preliminary report. <i>Acta Biomaterialia</i> , 2014 , 10, 3747-55	10.8	39
227	Effects of polyethylene particles on tissue surrounding knee arthroplasties in rabbits. <i>Journal of Biomedical Materials Research Part B</i> , 1998 , 43, 123-30		39
226	Fibroblast expression of C-C chemokines in response to orthopaedic biomaterial particle challenge in vitro. <i>Journal of Orthopaedic Research</i> , 2001 , 19, 970-6	3.8	39
225	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	15.6	39
224	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, 259-65	0.2	37
223	IgE-mediated mast cell activation promotes inflammation and cartilage destruction in osteoarthritis. <i>ELife</i> , 2019 , 8,	8.9	37
222	Etiologic Classification Criteria of ARCO on Femoral Head Osteonecrosis Part 1: Glucocorticoid-Associated Osteonecrosis. <i>Journal of Arthroplasty</i> , 2019 , 34, 163-168.e1	4.4	37
221	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	3.8	37
220	Inflammation and its resolution and the musculoskeletal system. <i>Journal of Orthopaedic Translation</i> , 2017 , 10, 52-67	4.2	36

219	Modulation of mouse macrophage polarization in vitro using IL-4 delivery by osmotic pumps. <i>Journal of Biomedical Materials Research - Part A</i> , 2015 , 103, 1339-45	5.4	36
218	Modified sliding trochanteric osteotomy in revision total hip arthroplasty. <i>Journal of Arthroplasty</i> , 2004 , 19, 1039-41	4.4	36
217	T-lymphocytes are not necessary for particulate polyethylene-induced macrophage recruitment. Histologic studies of the rat tibia. <i>Acta Orthopaedica</i> , 1994 , 65, 157-60		36
216	Innate immune reactions in septic and aseptic osteolysis around hip implants. <i>Journal of Long-Term Effects of Medical Implants</i> , 2014 , 24, 283-96	0.2	36
215	Pharmacologic modulation of periprosthetic osteolysis. <i>Clinical Orthopaedics and Related Research</i> , 2005 , 430, 39-45	2.2	36
214	Effect of a CCR1 receptor antagonist on systemic trafficking of MSCs and polyethylene particle-associated bone loss. <i>Biomaterials</i> , 2012 , 33, 3632-8	15.6	35
213	Effects of sclerostin antibody on healing of a non-critical size femoral bone defect. <i>Journal of Orthopaedic Research</i> , 2013 , 31, 155-63	3.8	35
212	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 , 65, 454-61		35
211	Obesity is Associated With Early Total Hip Revision for Aseptic Loosening. <i>Journal of Arthroplasty</i> , 2016 , 31, 217-20	4.4	34
210	Establishment of NF- κ B sensing and interleukin-4 secreting mesenchymal stromal cells as an "on-demand" drug delivery system to modulate inflammation. <i>Cytotherapy</i> , 2017 , 19, 1025-1034	4.8	33
209	The effects of medications on bone. <i>Journal of the American Academy of Orthopaedic Surgeons</i> , 2007 , 15, 450-60	4.5	33
208	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, 2255-62	5.4	32
207	NF- κ B decoy oligodeoxynucleotide enhanced osteogenesis in mesenchymal stem cells exposed to polyethylene particle. <i>Tissue Engineering - Part A</i> , 2015 , 21, 875-83	3.9	32
206	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 , 91, 894-902	5.4	32
205	The effect of SDF-1 α 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, 2126-34	5.4	32
204	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		31
203	Etiologic Classification Criteria of ARCO on Femoral Head Osteonecrosis Part 2: Alcohol-Associated Osteonecrosis. <i>Journal of Arthroplasty</i> , 2019 , 34, 169-174.e1	4.4	31
202	Factors Associated With Acute Pain Estimation, Postoperative Pain Resolution, Opioid Cessation, and Recovery: Secondary Analysis of a Randomized Clinical Trial. <i>JAMA Network Open</i> , 2019 , 2, e190168	10.4	30

201	Mutant CCL2 protein coating mitigates wear particle-induced bone loss in a murine continuous polyethylene infusion model. <i>Biomaterials</i> , 2017 , 117, 1-9	15.6	29
200	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, 3004-11	5.4	29
199	Local delivery of mutant CCL2 protein-reduced orthopaedic implant wear particle-induced osteolysis and inflammation in vivo. <i>Journal of Orthopaedic Research</i> , 2016 , 34, 58-64	3.8	29
198	Hematopoietic PBX-interacting protein mediates cartilage degeneration during the pathogenesis of osteoarthritis. <i>Nature Communications</i> , 2019 , 10, 313	17.4	28
197	Inflammation and Bone Repair: From Particle Disease to Tissue Regeneration. <i>Frontiers in Bioengineering and Biotechnology</i> , 2019 , 7, 230	5.8	28
196	Enhancement of BMP-2 induced bone regeneration by SDF-1 α mediated stem cell recruitment. <i>Tissue Engineering - Part A</i> , 2014 , 20, 810-8	3.9	28
195	Mesenchymal stem cells in the aseptic loosening of total joint replacements. <i>Journal of Biomedical Materials Research - Part A</i> , 2017 , 105, 1195-1207	5.4	27
194	Outcome of porous tantalum acetabular components for Paprosky type 3 and 4 acetabular defects. <i>Journal of Arthroplasty</i> , 2014 , 29, 1318-22	4.4	27
193	Titanium particles modulate expression of Toll-like receptor proteins. <i>Journal of Biomedical Materials Research - Part A</i> , 2010 , 92, 1528-37	5.4	27
192	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	1.9	26
191	Is There a Benefit to Modularity in 'Simpler' Femoral Revisions?. <i>Clinical Orthopaedics and Related Research</i> , 2016 , 474, 415-20	2.2	26
190	UHMWPE wear debris upregulates mononuclear cell proinflammatory gene expression in a novel murine model of intramedullary particle disease. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2005 , 76, 412-420	4.3	26
189	The characterization of macrophages and osteoclasts in tissues harvested from revised total hip prostheses. <i>Journal of Biomedical Materials Research Part B</i> , 1999 , 48, 899-903		26
188	Lipoteichoic acid modulates inflammatory response in macrophages after phagocytosis of titanium particles through Toll-like receptor 2 cascade and inflammasomes. <i>Journal of Biomedical Materials Research - Part A</i> , 2016 , 104, 435-44	5.4	26
187	Periprosthetic bacterial biofilm and quorum sensing. <i>Journal of Orthopaedic Research</i> , 2018 , 36, 2331-2338	3.8	26
186	Recommendations and considerations for the use of biologics in orthopedic surgery. <i>BioDrugs</i> , 2012 , 26, 245-56	7.9	25
185	Interleukin-4 inhibits granulocyte-macrophage colony-stimulating factor, interleukin-6, and tumor necrosis factor-alpha expression by human monocytes in response to polymethylmethacrylate particle challenge in vitro. <i>Journal of Orthopaedic Research</i> , 1999 , 17, 797-802	3.8	25
184	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	4.2	25

183	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, 267-81	0.2	24
182	Polymethylmethacrylate particles impair osteoprogenitor viability and expression of osteogenic transcription factors Runx2, osterix, and Dlx5. <i>Journal of Orthopaedic Research</i> , 2010 , 28, 571-7	3.8	24
181	Polymethylmethacrylate particles inhibit osteoblastic differentiation of MC3T3-E1 osteoprogenitor cells. <i>Journal of Orthopaedic Research</i> , 2008 , 26, 932-6	3.8	24
180	Chronic antigen-specific immune-system activation may potentially be involved in the loosening of cemented acetabular components. <i>Journal of Biomedical Materials Research Part B</i> , 2001 , 55, 433-41		24
179	Obesity Is Independently Associated With Early Aseptic Loosening in Primary Total Hip Arthroplasty. <i>Journal of Arthroplasty</i> , 2018 , 33, 882-886	4.4	23
178	Pain Duration and Resolution following Surgery: An Inception Cohort Study. <i>Pain Medicine</i> , 2015 , 16, 2386-96	2.8	23
177	Correlations between macrophage polarizing cytokines, inflammatory mediators, osteoclast activity, and toll-like receptors in tissues around aseptically loosened hip implants. <i>Journal of Biomedical Materials Research - Part A</i> , 2017 , 105, 454-463	5.4	23
176	Establishment of Green Fluorescent Protein and Firefly Luciferase Expressing Mouse Primary Macrophages for In Vivo Bioluminescence Imaging. <i>PLoS ONE</i> , 2015 , 10, e0142736	3.7	23
175	MC3T3-E1 osteoprogenitor cells systemically migrate to a bone defect and enhance bone healing. <i>Tissue Engineering - Part A</i> , 2012 , 18, 968-73	3.9	23
174	3D Printing in alloy design to improve biocompatibility in metallic implants. <i>Materials Today</i> , 2021 , 45, 20-34	21.8	23
173	NF κ 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	5.4	22
172	Smoking is associated with earlier time to revision of total knee arthroplasty. <i>Knee</i> , 2017 , 24, 1182-1186	2.6	22
171	Factors Associated with Opioid Use in a Cohort of Patients Presenting for Surgery. <i>Pain Research and Treatment</i> , 2015 , 2015, 829696	1.9	22
170	Role of direct estrogen receptor signaling in wear particle-induced osteolysis. <i>Biomaterials</i> , 2013 , 34, 641-50	15.6	22
169	Interferon-gamma exacerbates polymethylmethacrylate particle-induced interleukin-6 release by human monocyte/macrophages in vitro. <i>Journal of Biomedical Materials Research Part B</i> , 1999 , 47, 1-7		22
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