Wilson Wang

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Surface functionalization of titanium with hyaluronic acid/chitosan polyelectrolyte multilayers and RGD for promoting osteoblast functions and inhibiting bacterial adhesion. Biomaterials, 2008, 29, 1412-1421.	11.4	431
2	Antibacterial and mechanical properties of bone cement impregnated with chitosan nanoparticles. Biomaterials, 2006, 27, 2440-2449.	11.4	342
3	The effect of VEGF functionalization of titanium on endothelial cells in vitro. Biomaterials, 2010, 31, 1578-1585.	11.4	222
4	Novel Coronavirus and Orthopaedic Surgery. Journal of Bone and Joint Surgery - Series A, 2020, 102, 745-749.	3.0	185
5	Pandemics and Their Impact on Medical Training: Lessons From Singapore. Academic Medicine, 2020, 95, 1359-1361.	1.6	163
6	An in vitro assessment of titanium functionalized with polysaccharides conjugated with vascular endothelial growth factor for enhanced osseointegration and inhibition of bacterial adhesion. Biomaterials, 2010, 31, 8854-8863.	11.4	157
7	Surface Functionalization of Titanium with Carboxymethyl Chitosan and Immobilized Bone Morphogenetic Protein-2 for Enhanced Osseointegration. Biomacromolecules, 2009, 10, 1603-1611.	5.4	155
8	(Carboxymethyl)chitosan-Modified Superparamagnetic Iron Oxide Nanoparticles for Magnetic Resonance Imaging of Stem Cells. ACS Applied Materials & Interfaces, 2009, 1, 328-335.	8.0	100
9	Titanium with Surface-Grafted Dextran and Immobilized Bone Morphogenetic Protein-2 for Inhibition of Bacterial Adhesion and Enhancement of Osteoblast Functions. Tissue Engineering - Part A, 2009, 15, 417-426.	3.1	95
10	Super-Enhancers and Broad H3K4me3 Domains Form Complex Gene Regulatory Circuits Involving Chromatin Interactions. Scientific Reports, 2017, 7, 2186.	3.3	70
11	Aberrant hyperediting of the myeloma transcriptome by ADAR1 confers oncogenicity and is a marker of poor prognosis. Blood, 2018, 132, 1304-1317.	1.4	67
12	Biomaterial Particle Phagocytosis by Bone-Resorbing Osteoclasts. Journal of Bone and Joint Surgery: British Volume, 1997, 79, 849-856.	3.4	63
13	Functional regeneration of tendons using scaffolds with physical anisotropy engineered via microarchitectural manipulation. Science Advances, 2018, 4, eaat4537.	10.3	61
14	Mechanical properties and antibiotic release characteristics of poly(methyl methacrylate)-based bone cement formulated with mesoporous silica nanoparticles. Journal of the Mechanical Behavior of Biomedical Materials, 2017, 72, 163-170.	3.1	60
15	Immobilization strategy for optimizing VEGF's concurrent bioactivity towards endothelial cells and osteoblasts on implant surfaces. Biomaterials, 2012, 33, 8082-8093.	11.4	52
16	Collagen grafted 3D polycaprolactone scaffolds for enhanced cartilage regeneration. Journal of Materials Chemistry B, 2013, 1, 5971.	5.8	52
17	Staphylococcus aureus capsular material promotes osteoclast formation. Injury, 2006, 37, S41-S48.	1.7	51
18	Direct E-jet printing of three-dimensional fibrous scaffold for tendon tissue engineering. , 2017, 105,		50

⁸ 616-627.

WILSON WANG

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19	Combined effects of direct current stimulation and immobilized BMPâ€2 for enhancement of osteogenesis. Biotechnology and Bioengineering, 2013, 110, 1466-1475.	3.3	47
20	Poly (lactic-co-glycolic acid) as a controlled release delivery device. Journal of Materials Science: Materials in Medicine, 2009, 20, 1669-1675.	3.6	46
21	Development of mesoporous bioactive glass nanoparticles and its use in bone tissue engineering. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2018, 106, 2878-2887.	3.4	46
22	Accelerated bone growth in vitro by the conjugation of BMP2 peptide with hydroxyapatite on titanium alloy. Colloids and Surfaces B: Biointerfaces, 2014, 116, 681-686.	5.0	42
23	Enhanced endothelial differentiation of adipose-derived stem cells by substrate nanotopography. Journal of Tissue Engineering and Regenerative Medicine, 2014, 8, 50-58.	2.7	41
24	Fabrication of threeâ€dimensional porous scaffolds with controlled filament orientation and large pore size via an improved Eâ€ j etting technique. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2014, 102, 651-658.	3.4	40
25	Mechanically-enhanced three-dimensional scaffold with anisotropic morphology for tendon regeneration. Journal of Materials Science: Materials in Medicine, 2016, 27, 115.	3.6	33
26	Estradiol-Loaded Poly(Îμ-caprolactone)/Silk Fibroin Electrospun Microfibers Decrease Osteoclast Activity and Retain Osteoblast Function. ACS Applied Materials & Interfaces, 2018, 10, 9988-9998.	8.0	33
27	Cobalt chromium alloy with immobilized BMP peptide for enhanced bone growth. Journal of Orthopaedic Research, 2011, 29, 1424-1430.	2.3	32
28	Surface modification of titanium with curcumin: a promising strategy to combat fibrous encapsulation. Journal of Materials Chemistry B, 2015, 3, 2137-2146.	5.8	31
29	Uniformly-dispersed nanohydroxapatite-reinforced poly(ε-caprolactone) composite films for tendon tissue engineering application. Materials Science and Engineering C, 2017, 70, 1149-1155.	7.3	30
30	Modulation of Osteoclast Interactions with Orthopaedic Biomaterials. Journal of Functional Biomaterials, 2018, 9, 18.	4.4	28
31	Bioactive Titanium Implant Surfaces with Bacterial Inhibition and Osteoblast Function Enhancement Properties. International Journal of Artificial Organs, 2008, 31, 777-785.	1.4	27
32	Beta-cyclodextrin modified mesoporous bioactive glass nanoparticles/silk fibroin hybrid nanofibers as an implantable estradiol delivery system for the potential treatment of osteoporosis. Nanoscale, 2018, 10, 18341-18353.	5.6	27
33	A case of unusual Gram-negative bacilli septic arthritis in an immunocompetent patient. Singapore Medical Journal, 2013, 54, e164-e168.	0.6	26
34	Functional status mediates the association between peripheral neuropathy and health-related quality of life in individuals with diabetes. Acta Diabetologica, 2018, 55, 155-164.	2.5	25
35	Use of Polyphenol Tannic Acid to Functionalize Titanium with Strontium for Enhancement of Osteoblast Differentiation and Reduction of Osteoclast Activity. Polymers, 2019, 11, 1256.	4.5	23
36	<i>In vitro</i> characterizations of mesoporous hydroxyapatite as a controlled release delivery device for VEGF in orthopedic applications. Journal of Biomedical Materials Research - Part A, 2012, 100A, 3143-3150.	4.0	20

WILSON WANG

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37	An <i>In Vitro</i> Assessment of Fibroblast and Osteoblast Response to Alendronate-Modified Titanium and the Potential for Decreasing Fibrous Encapsulation. Tissue Engineering - Part A, 2013, 19, 1919-1930.	3.1	20
38	Orthopaedic implant technology: biomaterials from past to future. Annals of the Academy of Medicine, Singapore, 2011, 40, 237-44.	0.4	20
39	Effect of storage temperature and equilibration time on polymethyl methacrylate (PMMA) bone cement polymerization in joint replacement surgery. Journal of Orthopaedic Surgery and Research, 2015, 10, 178.	2.3	19
40	Compression and Flexural Strength of Bone Cement Mixed with Blood. Journal of Orthopaedic Surgery, 2016, 24, 240-244.	1.0	18
41	Pan-cancer pervasive upregulation of 3′ UTR splicing drives tumourigenesis. Nature Cell Biology, 2022, 24, 928-939.	10.3	18
42	Fabrication of bio-inspired composite coatings for titanium implants using the micro-dispensing technique. Microsystem Technologies, 2012, 18, 2041-2051.	2.0	16
43	Bioinspired polydopamine and polyphenol tannic acid functionalized titanium suppress osteoclast differentiation: a facile and efficient strategy to regulate osteoclast activity at bone–implant interface. Journal of the Royal Society Interface, 2019, 16, 20180799.	3.4	16
44	Antiâ€fibrosis effect of BMPâ€7 peptide functionalization on cobalt chromium alloy. Journal of Orthopaedic Research, 2013, 31, 983-990.	2.3	15
45	A biomechanical study of proximal tibia bone grafting through the lateral approach. Injury, 2016, 47, 2407-2414.	1.7	12
46	Carboxylic acid-functionalized polycarbonates as bone cement additives for enhanced and sustained release of antibiotics. Journal of Controlled Release, 2021, 329, 871-881.	9.9	12
47	Chemically-modified calcium phosphate coatings via drop-on-demand micro-dispensing technique. Surface and Coatings Technology, 2013, 231, 29-33.	4.8	11
48	Covalently grafted BMPâ€7 peptide to reduce macrophage/monocyte activity: An in vitro study on cobalt chromium alloy. Biotechnology and Bioengineering, 2013, 110, 969-979.	3.3	10
49	What Is the Role of Diagnostic and Therapeutic Sonication in Periprosthetic Joint Infections?. Journal of Arthroplasty, 2018, 33, 2575-2581.	3.1	10
50	Frequent upregulation of G9a promotes RelB-dependent proliferation and survival in multiple myeloma. Experimental Hematology and Oncology, 2020, 9, 8.	5.0	10
51	A novel technique for modified all-inside repair of bucket-handle meniscus tears using standard arthroscopic portals. Journal of Orthopaedic Surgery and Research, 2017, 12, 188.	2.3	8
52	Early clinical manifestations of vibrio necrotising fasciitis. Singapore Medical Journal, 2018, 59, 224-227.	0.6	8
53	Total knee arthroplasty in a patient with a fused ipsilateral hip. Journal of Orthopaedic Surgery and Research, 2015, 10, 127.	2.3	7
54	circASXL1-1 regulates BAP1 deubiquitinase activity in leukemia. Haematologica, 2020, 105, e343-e348.	3.5	7

WILSON WANG

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55	Macrophages protect mycoplasmaâ€infected chronic myeloid leukemia cells from natural killer cell killing. Immunology and Cell Biology, 2020, 98, 138-151.	2.3	6
56	Outpatient management of knee osteoarthritis. Singapore Medical Journal, 2017, 58, 580-584.	0.6	6
57	Intra-articular correction of extra-articular tibial deformities with total knee arthroplasty. International Journal of Surgery Case Reports, 2013, 4, 276-278.	0.6	4
58	In Vitro Findings of Titanium Functionalized with Estradiol via Polydopamine Adlayer. Journal of Functional Biomaterials, 2017, 8, 45.	4.4	4
59	Short-duration chemoprophylaxis might reduce incidence of deep vein thrombosis in Asian patients undergoing total knee arthroplasty. Knee Surgery and Related Research, 2020, 32, 58.	4.2	4
60	Biomechanical analysis of proximal tibia bone grafting and the effect of the size of osteotomy using a validated finite element model. Medical and Biological Engineering and Computing, 2019, 57, 1823-1832.	2.8	3
61	p53-NEIL1 co-abnormalities induce genomic instability and promote synthetic lethality with Chk1 inhibition in multiple myeloma having concomitant 17p13(del) and 1q21(gain). Oncogene, 2022, 41, 2106-2121.	5.9	3
62	Bio-Inspired Organic-Inorganic Composite Coatings for Implants via a Micro-Dispensing Technique. Advanced Materials Research, 2012, 500, 662-672.	0.3	2
63	Changes in dimensions of total knee arthroplasty anterior knee dressings during flexion: Preliminary findings. International Journal of Orthopaedic and Trauma Nursing, 2015, 19, 179-183.	0.9	2
64	Effect of Grain Boundary on the Wear Behaviour of NiTi Shape Memory Alloys When MfÂ<ÂTÂ<ÂAf. Tribology Letters, 2018, 66, 1.	2.6	2
65	An in vitro assessment of surface modification strategies for orthopedic applications. Thin Solid Films, 2013, 544, 254-259.	1.8	1
66	Development of combined medium for in-vitro co-culture of mesenchymal stem cell and pseudomonas aeruginosa. Materials Technology, 2020, 35, 752-758.	3.0	1
67	Silver, silicon co-substituted hydroxyapatite modulates bacteria-cell competition for enhanced osteogenic function. Biomedical Materials (Bristol), 2021, 16, 055018.	3.3	1
68	3D-printed nails for aesthetic silicone prostheses. Prosthetics and Orthotics International, 2022, Publish Ahead of Print, .	1.0	1
69	Osteofibrous dysplasia of the tibia in a young adult treated by Sofield osteotomy. Current Orthopaedic Practice, 2010, 21, E48-E51.	0.2	0
70	Knee pain: a cautionary tale of lipoma arborescens. BMJ Case Reports, 2016, 2016, bcr2015214049.	0.5	0
71	NEW FRONTIERS IN HIP SURGERY AND RESEARCH OPPORTUNITIES. , 2002, , 575-594.		0