

Wilson Wang

List of Publications by Year in descending order

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71
papers

3,253
citations

185998

28
h-index

155451

55
g-index

72
all docs

72
docs citations

72
times ranked

5284
citing authors

#	ARTICLE	IF	CITATIONS
1	Surface functionalization of titanium with hyaluronic acid/chitosan polyelectrolyte multilayers and RGD for promoting osteoblast functions and inhibiting bacterial adhesion. <i>Biomaterials</i> , 2008, 29, 1412-1421.	5.7	431
2	Antibacterial and mechanical properties of bone cement impregnated with chitosan nanoparticles. <i>Biomaterials</i> , 2006, 27, 2440-2449.	5.7	342
3	The effect of VEGF functionalization of titanium on endothelial cells in vitro. <i>Biomaterials</i> , 2010, 31, 1578-1585.	5.7	222
4	Novel Coronavirus and Orthopaedic Surgery. <i>Journal of Bone and Joint Surgery - Series A</i> , 2020, 102, 745-749.	1.4	185
5	Pandemics and Their Impact on Medical Training: Lessons From Singapore. <i>Academic Medicine</i> , 2020, 95, 1359-1361.	0.8	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. <i>Biomaterials</i> , 2010, 31, 8854-8863.	5.7	157
7	Surface Functionalization of Titanium with Carboxymethyl Chitosan and Immobilized Bone Morphogenetic Protein-2 for Enhanced Osseointegration. <i>Biomacromolecules</i> , 2009, 10, 1603-1611.	2.6	155
8	(Carboxymethyl)chitosan-Modified Superparamagnetic Iron Oxide Nanoparticles for Magnetic Resonance Imaging of Stem Cells. <i>ACS Applied Materials & Interfaces</i> , 2009, 1, 328-335.	4.0	100
9	Titanium with Surface-Grafted Dextran and Immobilized Bone Morphogenetic Protein-2 for Inhibition of Bacterial Adhesion and Enhancement of Osteoblast Functions. <i>Tissue Engineering - Part A</i> , 2009, 15, 417-426.	1.6	95
10	Super-Enhancers and Broad H3K4me3 Domains Form Complex Gene Regulatory Circuits Involving Chromatin Interactions. <i>Scientific Reports</i> , 2017, 7, 2186.	1.6	70
11	Aberrant hyperediting of the myeloma transcriptome by ADAR1 confers oncogenicity and is a marker of poor prognosis. <i>Blood</i> , 2018, 132, 1304-1317.	0.6	67
12	Biomaterial particle phagocytosis by bone-resorbing osteoclasts. <i>Journal of Bone and Joint Surgery: British Volume</i> , 1997, 79, 849-56.	3.4	63
13	Functional regeneration of tendons using scaffolds with physical anisotropy engineered via microarchitectural manipulation. <i>Science Advances</i> , 2018, 4, eaat4537.	4.7	61
14	Mechanical properties and antibiotic release characteristics of poly(methyl methacrylate)-based bone cement formulated with mesoporous silica nanoparticles. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2017, 72, 163-170.	1.5	60
15	Immobilization strategy for optimizing VEGF's concurrent bioactivity towards endothelial cells and osteoblasts on implant surfaces. <i>Biomaterials</i> , 2012, 33, 8082-8093.	5.7	52
16	Collagen grafted 3D polycaprolactone scaffolds for enhanced cartilage regeneration. <i>Journal of Materials Chemistry B</i> , 2013, 1, 5971.	2.9	52
17	Staphylococcus aureus capsular material promotes osteoclast formation. <i>Injury</i> , 2006, 37, S41-S48.	0.7	51
18	Direct E-jet printing of three-dimensional fibrous scaffold for tendon tissue engineering. , 2017, 105, 616-627.		50

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19	Combined effects of direct current stimulation and immobilized BMP2 for enhancement of osteogenesis. <i>Biotechnology and Bioengineering</i> , 2013, 110, 1466-1475.	1.7	47
20	Poly (lactic-co-glycolic acid) as a controlled release delivery device. <i>Journal of Materials Science: Materials in Medicine</i> , 2009, 20, 1669-1675.	1.7	46
21	Development of mesoporous bioactive glass nanoparticles and its use in bone tissue engineering. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2018, 106, 2878-2887.	1.6	46
22	Accelerated bone growth in vitro by the conjugation of BMP2 peptide with hydroxyapatite on titanium alloy. <i>Colloids and Surfaces B: Biointerfaces</i> , 2014, 116, 681-686.	2.5	42
23	Enhanced endothelial differentiation of adipose-derived stem cells by substrate nanotopography. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2014, 8, 50-58.	1.3	41
24	Fabrication of three-dimensional porous scaffolds with controlled filament orientation and large pore size via an improved jetting technique. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2014, 102, 651-658.	1.6	40
25	Mechanically-enhanced three-dimensional scaffold with anisotropic morphology for tendon regeneration. <i>Journal of Materials Science: Materials in Medicine</i> , 2016, 27, 115.	1.7	33
26	Estradiol-Loaded Poly(μ -caprolactone)/Silk Fibroin Electrospun Microfibers Decrease Osteoclast Activity and Retain Osteoblast Function. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 9988-9998.	4.0	33
27	Cobalt chromium alloy with immobilized BMP peptide for enhanced bone growth. <i>Journal of Orthopaedic Research</i> , 2011, 29, 1424-1430.	1.2	32
28	Surface modification of titanium with curcumin: a promising strategy to combat fibrous encapsulation. <i>Journal of Materials Chemistry B</i> , 2015, 3, 2137-2146.	2.9	31
29	Uniformly-dispersed nanohydroxyapatite-reinforced poly(μ -caprolactone) composite films for tendon tissue engineering application. <i>Materials Science and Engineering C</i> , 2017, 70, 1149-1155.	3.8	30
30	Modulation of Osteoclast Interactions with Orthopaedic Biomaterials. <i>Journal of Functional Biomaterials</i> , 2018, 9, 18.	1.8	28
31	Bioactive Titanium Implant Surfaces with Bacterial Inhibition and Osteoblast Function Enhancement Properties. <i>International Journal of Artificial Organs</i> , 2008, 31, 777-785.	0.7	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. <i>Nanoscale</i> , 2018, 10, 18341-18353.	2.8	27
33	A case of unusual Gram-negative bacilli septic arthritis in an immunocompetent patient. <i>Singapore Medical Journal</i> , 2013, 54, e164-e168.	0.3	26
34	Functional status mediates the association between peripheral neuropathy and health-related quality of life in individuals with diabetes. <i>Acta Diabetologica</i> , 2018, 55, 155-164.	1.2	25
35	Use of Polyphenol Tannic Acid to Functionalize Titanium with Strontium for Enhancement of Osteoblast Differentiation and Reduction of Osteoclast Activity. <i>Polymers</i> , 2019, 11, 1256.	2.0	23
36	<i>In vitro</i> characterizations of mesoporous hydroxyapatite as a controlled release delivery device for VEGF in orthopedic applications. <i>Journal of Biomedical Materials Research - Part A</i> , 2012, 100A, 3143-3150.	2.1	20

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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. <i>Tissue Engineering - Part A</i> , 2013, 19, 1919-1930.	1.6	20
38	Orthopaedic implant technology: biomaterials from past to future. <i>Annals of the Academy of Medicine, Singapore</i> , 2011, 40, 237-44.	0.2	20
39	Effect of storage temperature and equilibration time on polymethyl methacrylate (PMMA) bone cement polymerization in joint replacement surgery. <i>Journal of Orthopaedic Surgery and Research</i> , 2015, 10, 178.	0.9	19
40	Compression and Flexural Strength of Bone Cement Mixed with Blood. <i>Journal of Orthopaedic Surgery</i> , 2016, 24, 240-244.	0.4	18
41	Pan-cancer pervasive upregulation of 3' UTR splicing drives tumourigenesis. <i>Nature Cell Biology</i> , 2022, 24, 928-939.	4.6	18
42	Fabrication of bio-inspired composite coatings for titanium implants using the micro-dispensing technique. <i>Microsystem Technologies</i> , 2012, 18, 2041-2051.	1.2	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. <i>Journal of the Royal Society Interface</i> , 2019, 16, 20180799.	1.5	16
44	Anti-fibrosis effect of BMP-7 peptide functionalization on cobalt chromium alloy. <i>Journal of Orthopaedic Research</i> , 2013, 31, 983-990.	1.2	15
45	A biomechanical study of proximal tibia bone grafting through the lateral approach. <i>Injury</i> , 2016, 47, 2407-2414.	0.7	12
46	Carboxylic acid-functionalized polycarbonates as bone cement additives for enhanced and sustained release of antibiotics. <i>Journal of Controlled Release</i> , 2021, 329, 871-881.	4.8	12
47	Chemically-modified calcium phosphate coatings via drop-on-demand micro-dispensing technique. <i>Surface and Coatings Technology</i> , 2013, 231, 29-33.	2.2	11
48	Covalently grafted BMP-7 peptide to reduce macrophage/monocyte activity: An in vitro study on cobalt chromium alloy. <i>Biotechnology and Bioengineering</i> , 2013, 110, 969-979.	1.7	10
49	What Is the Role of Diagnostic and Therapeutic Sonication in Periprosthetic Joint Infections?. <i>Journal of Arthroplasty</i> , 2018, 33, 2575-2581.	1.5	10
50	Frequent upregulation of G9a promotes RelB-dependent proliferation and survival in multiple myeloma. <i>Experimental Hematology and Oncology</i> , 2020, 9, 8.	2.0	10
51	A novel technique for modified all-inside repair of bucket-handle meniscus tears using standard arthroscopic portals. <i>Journal of Orthopaedic Surgery and Research</i> , 2017, 12, 188.	0.9	8
52	Early clinical manifestations of vibrio necrotising fasciitis. <i>Singapore Medical Journal</i> , 2018, 59, 224-227.	0.3	8
53	Total knee arthroplasty in a patient with a fused ipsilateral hip. <i>Journal of Orthopaedic Surgery and Research</i> , 2015, 10, 127.	0.9	7
54	circASXL1-1 regulates BAP1 deubiquitinase activity in leukemia. <i>Haematologica</i> , 2020, 105, e343-e348.	1.7	7

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55	Macrophages protect mycoplasma-infected chronic myeloid leukemia cells from natural killer cell killing. <i>Immunology and Cell Biology</i> , 2020, 98, 138-151.	1.0	6
56	Outpatient management of knee osteoarthritis. <i>Singapore Medical Journal</i> , 2017, 58, 580-584.	0.3	6
57	Intra-articular correction of extra-articular tibial deformities with total knee arthroplasty. <i>International Journal of Surgery Case Reports</i> , 2013, 4, 276-278.	0.2	4
58	In Vitro Findings of Titanium Functionalized with Estradiol via Polydopamine Adlayer. <i>Journal of Functional Biomaterials</i> , 2017, 8, 45.	1.8	4
59	Short-duration chemoprophylaxis might reduce incidence of deep vein thrombosis in Asian patients undergoing total knee arthroplasty. <i>Knee Surgery and Related Research</i> , 2020, 32, 58.	1.8	4
60	Biomechanical analysis of proximal tibia bone grafting and the effect of the size of osteotomy using a validated finite element model. <i>Medical and Biological Engineering and Computing</i> , 2019, 57, 1823-1832.	1.6	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). <i>Oncogene</i> , 2022, 41, 2106-2121.	2.6	3
62	Bio-Inspired Organic-Inorganic Composite Coatings for Implants via a Micro-Dispensing Technique. <i>Advanced Materials Research</i> , 2012, 500, 662-672.	0.3	2
63	Changes in dimensions of total knee arthroplasty anterior knee dressings during flexion: Preliminary findings. <i>International Journal of Orthopaedic and Trauma Nursing</i> , 2015, 19, 179-183.	0.4	2
64	Effect of Grain Boundary on the Wear Behaviour of NiTi Shape Memory Alloys When Mf\hat{A}. <i>Tribology Letters</i> , 2018, 66, 1.	1.2	2
65	An in vitro assessment of surface modification strategies for orthopedic applications. <i>Thin Solid Films</i> , 2013, 544, 254-259.	0.8	1
66	Development of combined medium for in-vitro co-culture of mesenchymal stem cell and pseudomonas aeruginosa. <i>Materials Technology</i> , 2020, 35, 752-758.	1.5	1
67	Silver, silicon co-substituted hydroxyapatite modulates bacteria-cell competition for enhanced osteogenic function. <i>Biomedical Materials (Bristol)</i> , 2021, 16, 055018.	1.7	1
68	3D-printed nails for aesthetic silicone prostheses. <i>Prosthetics and Orthotics International</i> , 2022, Publish Ahead of Print, .	0.5	1
69	Osteofibrous dysplasia of the tibia in a young adult treated by Sofield osteotomy. <i>Current Orthopaedic Practice</i> , 2010, 21, E48-E51.	0.1	0
70	Knee pain: a cautionary tale of lipoma arborescens. <i>BMJ Case Reports</i> , 2016, 2016, bcr2015214049.	0.2	0
71	NEW FRONTIERS IN HIP SURGERY AND RESEARCH OPPORTUNITIES. , 2002, , 575-594.		0