

Wilson Wang

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.

69

papers

2,615

citations

26

h-index

50

g-index

72

ext. papers

2,958

ext. citations

5.2

avg, IF

5.41

L-index

| # | Paper | IF | Citations |
|----|--|------|-----------|
| 69 | 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, 1412-21 | 15.6 | 396 |
| 68 | Antibacterial and mechanical properties of bone cement impregnated with chitosan nanoparticles. <i>Biomaterials</i> , 2006 , 27, 2440-9 | 15.6 | 304 |
| 67 | The effect of VEGF functionalization of titanium on endothelial cells in vitro. <i>Biomaterials</i> , 2010 , 31, 1578-85 | 15.6 | 190 |
| 66 | Novel Coronavirus and Orthopaedic Surgery: Early Experiences from Singapore. <i>Journal of Bone and Joint Surgery - Series A</i> , 2020 , 102, 745-749 | 5.6 | 155 |
| 65 | Surface functionalization of titanium with carboxymethyl chitosan and immobilized bone morphogenetic protein-2 for enhanced osseointegration. <i>Biomacromolecules</i> , 2009 , 10, 1603-11 | 6.9 | 144 |
| 64 | 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, 8854-63 | 15.6 | 132 |
| 63 | Pandemics and Their Impact on Medical Training: Lessons From Singapore. <i>Academic Medicine</i> , 2020 , 95, 1359-1361 | 3.9 | 98 |
| 62 | (Carboxymethyl)chitosan-modified superparamagnetic iron oxide nanoparticles for magnetic resonance imaging of stem cells. <i>ACS Applied Materials & Interfaces</i> , 2009 , 1, 328-35 | 9.5 | 92 |
| 61 | 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, 417-26 | 3.9 | 91 |
| 60 | Biomaterial particle phagocytosis by bone-resorbing osteoclasts. <i>Journal of Bone and Joint Surgery: British Volume</i> , 1997 , 79, 849-56 | | 59 |
| 59 | Immobilization strategy for optimizing VEGF's concurrent bioactivity towards endothelial cells and osteoblasts on implant surfaces. <i>Biomaterials</i> , 2012 , 33, 8082-93 | 15.6 | 45 |
| 58 | 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 | 4.1 | 44 |
| 57 | Collagen grafted 3D polycaprolactone scaffolds for enhanced cartilage regeneration. <i>Journal of Materials Chemistry B</i> , 2013 , 1, 5971-5976 | 7.3 | 41 |
| 56 | Combined effects of direct current stimulation and immobilized BMP-2 for enhancement of osteogenesis. <i>Biotechnology and Bioengineering</i> , 2013 , 110, 1466-75 | 4.9 | 41 |
| 55 | Super-Enhancers and Broad H3K4me3 Domains Form Complex Gene Regulatory Circuits Involving Chromatin Interactions. <i>Scientific Reports</i> , 2017 , 7, 2186 | 4.9 | 40 |
| 54 | Staphylococcus aureus capsular material promotes osteoclast formation. <i>Injury</i> , 2006 , 37 Suppl 2, S41-8 | 2.5 | 40 |
| 53 | Poly (lactic-co-glycolic acid) as a controlled release delivery device. <i>Journal of Materials Science: Materials in Medicine</i> , 2009 , 20, 1669-75 | 4.5 | 39 |

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|----|--|------|----|
| 52 | 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, 681-6 | 6 | 38 |
| 51 | Direct E-jet printing of three-dimensional fibrous scaffold for tendon tissue engineering. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2017 , 105, 616-627 | 3.5 | 37 |
| 50 | Aberrant hyperediting of the myeloma transcriptome by ADAR1 confers oncogenicity and is a marker of poor prognosis. <i>Blood</i> , 2018 , 132, 1304-1317 | 2.2 | 36 |
| 49 | Enhanced endothelial differentiation of adipose-derived stem cells by substrate nanotopography. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2014 , 8, 50-8 | 4.4 | 36 |
| 48 | Fabrication of three-dimensional porous scaffolds with controlled filament orientation and large pore size via an improved E-jetting technique. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2014 , 102, 651-8 | 3.5 | 35 |
| 47 | Functional regeneration of tendons using scaffolds with physical anisotropy engineered via microarchitectural manipulation. <i>Science Advances</i> , 2018 , 4, eaat4537 | 14.3 | 35 |
| 46 | Mechanically-enhanced three-dimensional scaffold with anisotropic morphology for tendon regeneration. <i>Journal of Materials Science: Materials in Medicine</i> , 2016 , 27, 115 | 4.5 | 29 |
| 45 | Cobalt chromium alloy with immobilized BMP peptide for enhanced bone growth. <i>Journal of Orthopaedic Research</i> , 2011 , 29, 1424-30 | 3.8 | 27 |
| 44 | Uniformly-dispersed nanohydroxyapatite-reinforced poly(L-lactide) composite films for tendon tissue engineering application. <i>Materials Science and Engineering C</i> , 2017 , 70, 1149-1155 | 8.3 | 26 |
| 43 | Surface modification of titanium with curcumin: a promising strategy to combat fibrous encapsulation. <i>Journal of Materials Chemistry B</i> , 2015 , 3, 2137-2146 | 7.3 | 25 |
| 42 | 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 | 3.5 | 23 |
| 41 | Bioactive titanium implant surfaces with bacterial inhibition and osteoblast function enhancement properties. <i>International Journal of Artificial Organs</i> , 2008 , 31, 777-85 | 1.9 | 20 |
| 40 | Orthopaedic implant technology: biomaterials from past to future. <i>Annals of the Academy of Medicine, Singapore</i> , 2011 , 40, 237-44 | 2.8 | 20 |
| 39 | Estradiol-Loaded Poly(L-lactide)/Silk Fibroin Electrospun Microfibers Decrease Osteoclast Activity and Retain Osteoblast Function. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 9988-9998 | 9.5 | 19 |
| 38 | In vitro 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 , 100, 3143-50 | 5.4 | 19 |
| 37 | A case of unusual Gram-negative bacilli septic arthritis in an immunocompetent patient. <i>Singapore Medical Journal</i> , 2013 , 54, e164-8 | 1.9 | 19 |
| 36 | Modulation of Osteoclast Interactions with Orthopaedic Biomaterials. <i>Journal of Functional Biomaterials</i> , 2018 , 9, | 4.8 | 18 |
| 35 | An in vitro 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, 1919-30 | 3.9 | 18 |

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|----|--|-----|----|
| 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 | 3.9 | 18 |
| 33 | 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, | 4.5 | 14 |
| 32 | Anti-fibrosis effect of BMP-7 peptide functionalization on cobalt chromium alloy. <i>Journal of Orthopaedic Research</i> , 2013 , 31, 983-90 | 3.8 | 12 |
| 31 | Fabrication of bio-inspired composite coatings for titanium implants using the micro-dispensing technique. <i>Microsystem Technologies</i> , 2012 , 18, 2041-2051 | 1.7 | 12 |
| 30 | 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 | 4.1 | 11 |
| 29 | 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 | 2.8 | 11 |
| 28 | 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 | 7.7 | 11 |
| 27 | 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, 969-79 | 4.9 | 9 |
| 26 | Chemically-modified calcium phosphate coatings via drop-on-demand micro-dispensing technique. <i>Surface and Coatings Technology</i> , 2013 , 231, 29-33 | 4.4 | 9 |
| 25 | Compression and flexural strength of bone cement mixed with blood. <i>Journal of Orthopaedic Surgery</i> , 2016 , 24, 240-4 | 1.4 | 9 |
| 24 | A biomechanical study of proximal tibia bone grafting through the lateral approach. <i>Injury</i> , 2016 , 47, 2407-2414 | 2.5 | 8 |
| 23 | What Is the Role of Diagnostic and Therapeutic Sonication in Periprosthetic Joint Infections?. <i>Journal of Arthroplasty</i> , 2018 , 33, 2575-2581 | 4.4 | 7 |
| 22 | Frequent upregulation of G9a promotes RelB-dependent proliferation and survival in multiple myeloma. <i>Experimental Hematology and Oncology</i> , 2020 , 9, 8 | 7.8 | 6 |
| 21 | circASXL1-1 regulates BAP1 deubiquitinase activity in leukemia. <i>Haematologica</i> , 2020 , 105, e343-e348 | 6.6 | 5 |
| 20 | 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 | 2.8 | 5 |
| 19 | Total knee arthroplasty in a patient with a fused ipsilateral hip. <i>Journal of Orthopaedic Surgery and Research</i> , 2015 , 10, 127 | 2.8 | 5 |
| 18 | Outpatient management of knee osteoarthritis. <i>Singapore Medical Journal</i> , 2017 , 58, 580-584 | 1.9 | 5 |
| 17 | In Vitro Findings of Titanium Functionalized with Estradiol via Polydopamine Adlayer. <i>Journal of Functional Biomaterials</i> , 2017 , 8, | 4.8 | 3 |

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| 16 | Early clinical manifestations of vibrio necrotising fasciitis. <i>Singapore Medical Journal</i> , 2018 , 59, 224-227 | 1.9 | 3 |
| 15 | Macrophages protect mycoplasma-infected chronic myeloid leukemia cells from natural killer cell killing. <i>Immunology and Cell Biology</i> , 2020 , 98, 138-151 | 5 | 3 |
| 14 | 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 | 11.7 | 3 |
| 13 | 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 | 3.1 | 2 |
| 12 | Effect of Grain Boundary on the Wear Behaviour of NiTi Shape Memory Alloys When MF Tribology Letters, 2018 , 66, 1 | 2.8 | 2 |
| 11 | Intra-articular correction of extra-articular tibial deformities with total knee arthroplasty. <i>International Journal of Surgery Case Reports</i> , 2013 , 4, 276-8 | 0.8 | 2 |
| 10 | Bio-Inspired Organic-Inorganic Composite Coatings for Implants via a Micro-Dispensing Technique. <i>Advanced Materials Research</i> , 2012 , 500, 662-672 | 0.5 | 2 |
| 9 | 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 | 2.5 | 2 |
| 8 | 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, 179-83 | 1.1 | 1 |
| 7 | Three-dimensional Genome Organization Maps in Normal Haematopoietic Stem Cells and Acute Myeloid Leukemia | | 1 |
| 6 | 3D-printed nails for aesthetic silicone prostheses.. <i>Prosthetics and Orthotics International</i> , 2022 , | 1.5 | 1 |
| 5 | Development of combined medium for in-vitro co-culture of mesenchymal stem cell and pseudomonas aeruginosa. <i>Materials Technology</i> , 2020 , 35, 752-758 | 2.1 | 0 |
| 4 | Knee pain: a cautionary tale of lipoma arborescens. <i>BMJ Case Reports</i> , 2016 , 2016, | 0.9 | |
| 3 | An in vitro assessment of surface modification strategies for orthopedic applications. <i>Thin Solid Films</i> , 2013 , 544, 254-259 | 2.2 | |
| 2 | Osteofibrous dysplasia of the tibia in a young adult treated by Sofield osteotomy. <i>Current Orthopaedic Practice</i> , 2010 , 21, E48-E51 | 0.4 | |
| 1 | NEW FRONTIERS IN HIP SURGERY AND RESEARCH OPPORTUNITIES 2002 , 575-594 | | |