Tingting Tang

List of Publications by Year
in descending order

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245 papers	12,783 citations	22153 59 h-index	36028 97 g-index
255 all docs	255 docs citations	255 times ranked	16256 citing authors

#	Article	IF	Citations
1	Current Strategies to Improve the Bioactivity of PEEK. International Journal of Molecular Sciences, 2014, 15, 5426-5445.	4.1	351
2	Osteogenic magnesium incorporated into PLGA/TCP porous scaffold by 3D printing for repairing challenging bone defect. Biomaterials, 2019, 197, 207-219.	11.4	348
3	Proliferation and osteoblastic differentiation of human bone marrow-derived stromal cells on akermanite-bioactive ceramics. Biomaterials, 2006, 27, 5651-5657.	11.4	293
4	In vitro and in vivo evaluation of akermanite bioceramics for bone regeneration. Biomaterials, 2009, 30, 5041-5048.	11.4	292
5	Quaternized Chitosan as an Antimicrobial Agent: Antimicrobial Activity, Mechanism of Action and Biomedical Applications in Orthopedics. International Journal of Molecular Sciences, 2013, 14, 1854-1869.	4.1	271
6	The clinical use of enriched bone marrow stem cells combined with porous beta-tricalcium phosphate in posterior spinal fusion. Biomaterials, 2008, 29, 3973-3982.	11.4	218
7	The use of quaternised chitosan-loaded PMMA to inhibit biofilm formation and downregulate the virulence-associated gene expression of antibiotic-resistant staphylococcus. Biomaterials, 2012, 33, 365-377.	11.4	200
8	Adjustment of the antibacterial activity and biocompatibility of hydroxypropyltrimethyl ammonium chloride chitosan by varying the degree of substitution of quaternary ammonium. Carbohydrate Polymers, 2010, 81, 275-283.	10.2	194
9	Differences of Knee Anthropometry Between Chinese and White Men and Women. Journal of Arthroplasty, 2011, 26, 124-130.	3.1	187
10	Human mesenchymal stem cells (hMSCs) target osteosarcoma and promote its growth and pulmonary metastasis. Cancer Letters, 2009, 281, 32-41.	7.2	182
11	Proliferation and Osteoblastic Differentiation of Human Bone Marrow Stromal Cells on Hydroxyapatite/Bacterial Cellulose Nanocomposite Scaffolds. Tissue Engineering - Part A, 2009, 15, 1091-1098.	3.1	177
12	Kinsenoside attenuates osteoarthritis by repolarizing macrophages through inactivating NF-ÎºB/MAPK signaling and protecting chondrocytes. Acta Pharmaceutica Sinica B, 2019, 9, 973-985.	12.0	176
13	In vitro responses of human bone marrow stromal cells to a fluoridated hydroxyapatite coated biodegradable Mgâ€“Zn alloy. Biomaterials, 2010, 31, 5782-5788.	11.4	174
14	The effect of metallic magnesium degradation products on osteoclast-induced osteolysis and attenuation of NF-ÎºB and NFATc1 signaling. Biomaterials, 2014, 35, 6299-6310.	11.4	171
15	STAT3 activation by IL-6 from mesenchymal stem cells promotes the proliferation and metastasis of osteosarcoma. Cancer Letters, 2012, 325, 80-88.	7.2	170
16	Bacteria-Targeting Nanoparticles with Microenvironment-Responsive Antibiotic Release To Eliminate Intracellular Staphylococcus aureus and Associated Infection. ACS Applied Materials & Interfaces, 2018, 10, 14299-14311.	8.0	160
17	A novel open-porous magnesium scaffold with controllable microstructures and properties for bone regeneration. Scientific Reports, 2016, 6, 24134.	3.3	156
18	Magnesium and the Risk of Cardiovascular Events: A Meta-Analysis of Prospective Cohort Studies. PLoS ONE, 2013, 8, e57720.	2.5	148

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19	miR-22 inhibits tumor growth and metastasis by targeting ATP citrate lyase: evidence in osteosarcoma, prostate cancer, cervical cancer and lung cancer. Oncotarget, 2016, 7, 44252-44265.	1.8	148
20	Dual-functional 3D-printed composite scaffold for inhibiting bacterial infection and promoting bone regeneration in infected bone defect models. Acta Biomaterialia, 2018, 79, 265-275.	8.3	134
21	Stimulation of osteogenic differentiation and inhibition of adipogenic differentiation in bone marrow stromal cells by alendronate via ERK and JNK activation. Bone, 2008, 43, 40-47.	2.9	128
22	Anti-infective efficacy, cytocompatibility and biocompatibility of a 3D-printed osteoconductive composite scaffold functionalized with quaternized chitosan. Acta Biomaterialia, 2016, 46, 112-128.	8.3	128
23	FOXP1 controls mesenchymal stem cell commitment and senescence during skeletal aging. Journal of Clinical Investigation, 2017, 127, 1241-1253.	8.2	128
24	Effect of berberine on Staphylococcus epidermidis biofilm formation. International Journal of Antimicrobial Agents, 2009, 34, 60-66.	2.5	118
25	Enzyme-Instructed Peptide Assemblies Selectively Inhibit Bone Tumors. CheM, 2019, 5, 2442-2449.	11.7	118
26	Effects of Flow Shear Stress and Mass Transport on the Construction of a Large-Scale Tissue-Engineered Bone in a Perfusion Bioreactor. Tissue Engineering - Part A, 2009, 15, 2773-2783.	3.1	115
27	The promotion of cartilage defect repair using adenovirus mediated Sox9 gene transfer of rabbit bone marrow mesenchymal stem cells. Biomaterials, 2011, 32, 3910-3920.	11.4	113
28	Bone regeneration by implantation of adipose-derived stromal cells expressing BMP-2. Biochemical and Biophysical Research Communications, 2007, 356, 836-842.	2.1	108
29	Preparation and characterization of bacterial cellulose sponge with hierarchical pore structure as tissue engineering scaffold. Journal of Porous Materials, 2011, 18, 139-145.	2.6	107
30	Targeting Osteocytes to Attenuate Early Breast Cancer Bone Metastasis by Theranostic Upconversion Nanoparticles with Responsive Plumbagin Release. ACS Nano, 2017, 11, 7259-7273.	14.6	100
31	Porous titanium materials with entangled wire structure for load-bearing biomedical applications. Journal of the Mechanical Behavior of Biomedical Materials, 2012, 5, 16-31.	3.1	99
32	Antibacterial Properties of Magnesium In Vitro and in an In Vivo Model of Implant-Associated Methicillin-Resistant Staphylococcus aureus Infection. Antimicrobial Agents and Chemotherapy, 2014, 58, 7586-7591.	3.2	95
33	Curcumin Inhibits the PERK-eIF2Î±-CHOP Pathway through Promoting SIRT1 Expression in Oxidative Stress-induced Rat Chondrocytes and Ameliorates Osteoarthritis Progression in a Rat Model. Oxidative Medicine and Cellular Longevity, 2019, 2019, 1-17.	4.0	95
34	Quaternized Chitosan Inhibits icaA Transcription and Biofilm Formation by Staphylococcus on a Titanium Surface. Antimicrobial Agents and Chemotherapy, 2011, 55, 860-866.	3.2	94
35	A Supramolecularâ€Based Dualâ€Wavelength Phototherapeutic Agent with Broadâ€Spectrum Antimicrobial Activity Against Drugâ€Resistant Bacteria. Angewandte Chemie - International Edition, 2020, 59, 3658-3664.	13.8	94
36	Surface treatment strategies to combat implant-related infection from the beginning. Journal of Orthopaedic Translation, 2019, 17, 42-54.	3.9	93

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37	Ubiquitination Flow Repressors: Enhancing Wound Healing of Infectious Diabetic Ulcers through Stabilization of Polyubiquitinated Hypoxiaâ€inducible Factorâ€1Î± by Theranostic Nitric Oxide Nanogenerators. Advanced Materials, 2021, 33, e2103593.	21.0	93
38	Baduanjin Alleviates the Symptoms of Knee Osteoarthritis. Journal of Alternative and Complementary Medicine, 2008, 14, 167-174.	2.1	92
39	Effect of 1,25-dihydroxy vitamin D3 on fracture healing and bone remodeling in ovariectomized rat femora. Bone, 2009, 44, 893-898.	2.9	91
40	Physical characterization and osteogenic activity of the quaternized chitosan-loaded PMMA bone cement. Acta Biomaterialia, 2012, 8, 2166-2174.	8.3	91
41	The effect of enoxacin on osteoclastogenesis and reduction of titanium particle-induced osteolysis via suppression of JNK signaling pathway. Biomaterials, 2014, 35, 5721-5730.	11.4	91
42	Preparation, Characterization, In Vitro Bioactivity, and Cellular Responses to a Polyetheretherketone Bioactive Composite Containing Nanocalcium Silicate for Bone Repair. ACS Applied Materials & Interfaces, 2014, 6, 12214-12225.	8.0	86
43	Bone marrow stromal cells with a combined expression of BMP-2 and VEGF-165 enhanced bone regeneration. Biomedical Materials (Bristol), 2011, 6, 015013.	3.3	85
44	Bone mineral density and all-cause, cardiovascular and stroke mortality: A meta-analysis of prospective cohort studies. International Journal of Cardiology, 2013, 166, 385-393.	1.7	84
45	Curcumin Inhibits Apoptosis of Chondrocytes through Activation ERK1/2 Signaling Pathways Induced Autophagy. Nutrients, 2017, 9, 414.	4.1	84
46	Biomimetic Sheath Membrane via Electrospinning for Antiadhesion of Repaired Tendon. Biomacromolecules, 2012, 13, 3611-3619.	5.4	83
47	Dual effects and mechanism of TiO2 nanotube arrays in reducing bacterial colonization and enhancing C3H10T1/2 cell adhesion. International Journal of Nanomedicine, 2013, 8, 3093.	6.7	83
48	Human mesenchymal stem cells promote growth of osteosarcoma: Involvement of interleukinâ€6 in the interaction between human mesenchymal stem cells and Saosâ€2. Cancer Science, 2010, 101, 2554-2560.	3.9	77
49	Mesenchymal stem cells promote osteosarcoma cell survival and drug resistance through activation of STAT3. Oncotarget, 2016, 7, 48296-48308.	1.8	77
50	The use of autologous enriched bone marrow MSCs to enhance osteoporotic bone defect repair in long-term estrogen deficient goats. Biomaterials, 2012, 33, 5076-5084.	11.4	74
51	Uniaxial mechanical tension promoted osteogenic differentiation of rat tendonâ€derived stem cells (rTDSCs) via the Wnt5aâ€RhoA pathway. Journal of Cellular Biochemistry, 2012, 113, 3133-3142.	2.6	72
52	Engineering 3D approaches to model the dynamic microenvironments of cancer bone metastasis. Bone Research, 2018, 6, 3.	11.4	71
53	Modified ZIF-8 Nanoparticles Attenuate Osteoarthritis by Reprogramming the Metabolic Pathway of Synovial Macrophages. ACS Applied Materials & Interfaces, 2020, 12, 2009-2022.	8.0	70
54	Evaluation of different scaffolds for BMP-2 genetic orthopedic tissue engineering. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2005, 75B, 289-303.	3.4	67

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55	Targeting ferroptosis suppresses osteocyte glucolipotoxicity and alleviates diabetic osteoporosis. Bone Research, 2022, 10, 26.	11.4	67
56	Osteosarcoma cells promote the production of pro-tumor cytokines in mesenchymal stem cells by inhibiting their osteogenic differentiation through the TGF-Î²/Smad2/3 pathway. Experimental Cell Research, 2014, 320, 164-173.	2.6	66
57	Recent advances in cell sheet technology for bone and cartilage regeneration: from preparation to application. International Journal of Oral Science, 2019, 11, 17.	8.6	65
58	Evaluation of the zein/inorganics composite on biocompatibility and osteoblastic differentiation. Acta Biomaterialia, 2008, 4, 1360-1368.	8.3	64
59	Plumbagin inhibits LPS-induced inflammation through the inactivation of the nuclear factor-kappa B and mitogen activated protein kinase signaling pathways in RAW 264.7 cells. Food and Chemical Toxicology, 2014, 64, 177-183.	3.6	63
60	Direct chitosan-mediated gene delivery to the rabbit knee joints in vitro and in vivo. Biochemical and Biophysical Research Communications, 2006, 341, 202-208.	2.1	62
61	Three-Dimensional Flow Perfusion Culture System for Stem Cell Proliferation Inside the Critical-Size Î²-Tricalcium Phosphate Scaffold. Tissue Engineering, 2006, 12, 3535-3543.	4.6	62
62	Inhibition of titanium particle-induced osteoclastogenesis through inactivation of NFATc1 by VIVIT peptide. Biomaterials, 2009, 30, 1756-1762.	11.4	62
63	Simulated microgravity using a rotary cell culture system promotes chondrogenesis of human adipose-derived mesenchymal stem cells via the p38 MAPK pathway. Biochemical and Biophysical Research Communications, 2011, 414, 412-418.	2.1	61
64	Mesoporous bioactive glass as a drug delivery system: fabrication, bactericidal properties and biocompatibility. Journal of Materials Science: Materials in Medicine, 2013, 24, 1951-1961.	3.6	61
65	Continuous cyclic mechanical tension inhibited Runx2 expression in mesenchymal stem cells through RhoAâ€ERK1/2 pathway. Journal of Cellular Physiology, 2011, 226, 2159-2169.	4.1	59
66	Biofunctionalization of titanium with bacitracin immobilization shows potential for anti-bacteria, osteogenesis and reduction of macrophage inflammation. Colloids and Surfaces B: Biointerfaces, 2016, 145, 728-739.	5.0	59
67	YAP-mediated mechanotransduction regulates osteogenic and adipogenic differentiation of BMSCs on hierarchical structure. Colloids and Surfaces B: Biointerfaces, 2017, 152, 344-353.	5.0	59
68	In vitro degradability, bioactivity and cell responses to mesoporous magnesium silicate for the induction of bone regeneration. Colloids and Surfaces B: Biointerfaces, 2014, 120, 38-46.	5.0	58
69	CXCR1/Akt signaling activation induced by mesenchymal stem cell-derived IL-8 promotes osteosarcoma cell anoikis resistance and pulmonary metastasis. Cell Death and Disease, 2018, 9, 714.	6.3	58
70	Gender differences in the knees of Chinese population. Knee Surgery, Sports Traumatology, Arthroscopy, 2011, 19, 80-88.	4.2	57
71	A new approach to the fabrication of porous magnesium with well-controlled 3D pore structure for orthopedic applications. Materials Science and Engineering C, 2014, 43, 317-320.	7.3	57
72	The doseâ€“effect relationship in extracorporeal shock wave therapy: the optimal parameter for extracorporeal shock wave therapy. Journal of Surgical Research, 2014, 186, 484-492.	1.6	57

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73	Myricetin prevents titanium particle-induced osteolysis in vivo and inhibits RANKL-induced osteoclastogenesis in vitro. Biochemical Pharmacology, 2015, 93, 59-71.	4.4	57
74	Preparation, characterization, and in vitro osteoblast functions of a nano-hydroxyapatite/polyetheretherketone biocomposite as orthopedic implant material. International Journal of Nanomedicine, 2014, 9, 3949.	6.7	56
75	Evaluation of antibacterial activity of N-phosphonium chitosan as a novel polymeric antibacterial agent. International Journal of Biological Macromolecules, 2014, 67, 163-171.	7.5	56
76	Hypericin suppresses osteoclast formation and wear particle-induced osteolysis via modulating ERK signalling pathway. Biochemical Pharmacology, 2014, 90, 276-287.	4.4	56
77	AMPK promotes osteogenesis and inhibits adipogenesis through AMPK-Gfi1-OPN axis. Cellular Signalling, 2016, 28, 1270-1282.	3.6	56
78	Immune response and effect of adenovirus-mediated human BMP-2 gene transfer on the repair of segmental tibial bone defects in goats. Monthly Notices of the Royal Astronomical Society: Letters, 2005, 76, 637-646.	3.3	55
79	Suppressive Effects of Plumbagin on Invasion and Migration of Breast Cancer Cells via the Inhibition of STAT3 Signaling and Down-regulation of Inflammatory Cytokine Expressions. Bone Research, 2013, 1, 362-370.	11.4	55
80	Multivalent Glycosheets for Double Lightâ€“Driven Therapy of Multidrugâ€Resistant Bacteria on Wounds. Advanced Functional Materials, 2019, 29, 1806986.	14.9	55
81	Influences of tantalum pentoxide and surface coarsening on surface roughness, hydrophilicity, surface energy, protein adsorption and cell responses to PEEK based biocomposite. Colloids and Surfaces B: Biointerfaces, 2019, 174, 207-215.	5.0	55
82	Cytocompatibility with osteogenic cells and enhanced in vivo anti-infection potential of quaternized chitosan-loaded titania nanotubes. Bone Research, 2016, 4, 16027.	11.4	54
83	Improved antibacterial properties of collagen I/hyaluronic acid/quaternized chitosan multilayer modified titanium coatings with both contact-killing and release-killing functions. Journal of Materials Chemistry B, 2019, 7, 1951-1961.	5.8	54
84	Bacterial inhibition potential of 3D rapid-prototyped magnesium-based porous composite scaffoldsâ€“an in vitro efficacy study. Scientific Reports, 2015, 5, 13775.	3.3	53
85	Promotion of osteogenesis through Î²-catenin signaling by desferrioxamine. Biochemical and Biophysical Research Communications, 2008, 370, 332-337.	2.1	52
86	Improved hMSC functions on titanium coatings by type I collagen immobilization. Journal of Biomedical Materials Research - Part A, 2014, 102, 204-214.	4.0	52
87	The prevention of titanium-particle-induced osteolysis by OA-14 through the suppression of the p38 signaling pathway and inhibition of osteoclastogenesis. Biomaterials, 2014, 35, 8937-8950.	11.4	51
88	Single walled carbon nanotubes reinforced mineralized hydroxyapatite composite coatings on titanium for improved biocompatible implant applications. RSC Advances, 2015, 5, 36766-36778.	3.6	51
89	Immobilizing bacitracin on titanium for prophylaxis of infections and for improving osteoinductivity: An in vivo study. Colloids and Surfaces B: Biointerfaces, 2017, 150, 183-191.	5.0	51
90	Inhibition of Î²â€catenin signaling in chondrocytes induces delayed fracture healing in mice. Journal of Orthopaedic Research, 2012, 30, 304-310.	2.3	48

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91	Dioscin inhibits osteoclast differentiation and bone resorption though down-regulating the Akt signaling cascades. Biochemical and Biophysical Research Communications, 2014, 443, 658-665.	2.1	48
92	The Effects of Platelet-Derived Growth Factor-BB on Bone Marrow Stromal Cell-Mediated Vascularized Bone Regeneration. Stem Cells International, 2018, 2018, 1-16.	2.5	48
93	Tantalum implanted entangled porous titanium promotes surface osseointegration and bone ingrowth. Scientific Reports, 2016, 6, 26248.	3.3	47
94	Mesoporous bioactive glass doped-poly (3-hydroxybutyrate-co-3-hydroxyhexanoate) composite scaffolds with 3-dimensionally hierarchical pore networks for bone regeneration. Colloids and Surfaces B: Biointerfaces, 2014, 116, 72-80.	5.0	45
95	Sclerostin antibody treatment causes greater alveolar crest height and bone mass in an ovariectomized rat model of localized periodontitis. Bone, 2015, 76, 141-148.	2.9	45
96	Osseointegration of nanohydroxyapatite- or nano-calcium silicate-incorporated polyetheretherketone bioactive composites in vivo. International Journal of Nanomedicine, 2016, Volume 11, 6023-6033.	6.7	44
97	Covalently immobilised type I collagen facilitates osteoconduction and osseointegration of titanium coated implants. Journal of Orthopaedic Translation, 2016, 5, 16-25.	3.9	44
98	In Vivo Effect of Quaternized Chitosan-Loaded Polymethylmethacrylate Bone Cement on Methicillin-Resistant Staphylococcus epidermidis Infection of the Tibial Metaphysis in a Rabbit Model. Antimicrobial Agents and Chemotherapy, 2014, 58, 6016-6023.	3.2	43
99	Electrospun PLGA membrane incorporated with andrographolide-loaded mesoporous silica nanoparticles for sustained antibacterial wound dressing. Nanomedicine, 2018, 13, 2881-2899.	3.3	43
100	Long-term effects of alendronate on fracture healing and bone remodeling of femoral shaft in ovariectomized rats. Acta Pharmacologica Sinica, 2013, 34, 387-392.	6.1	42
101	Inhibitory effects of ursolic acid on osteoclastogenesis and titanium particle-induced osteolysis are mediated primarily via suppression ofÂNF-ÎºB signaling. Biochimie, 2015, 111, 107-118.	2.6	42
102	A 3D-bioprinted scaffold with doxycycline-controlled BMP2-expressing cells for inducing bone regeneration and inhibiting bacterial infection. Bioactive Materials, 2021, 6, 1318-1329.	15.6	42
103	Novel water soluble phosphonium chitosan derivatives: Synthesis, characterization and cytotoxicity studies. International Journal of Biological Macromolecules, 2011, 48, 375-380.	7.5	41
104	Sanguinarine inhibits osteoclast formation and bone resorption via suppressing RANKL-induced activation of NF-ÎºB and ERK signaling pathways. Biochemical and Biophysical Research Communications, 2013, 430, 951-956.	2.1	41
105	Inhibited bacterial biofilm formation and improved osteogenic activity on gentamicin-loaded titania nanotubes with various diameters. International Journal of Nanomedicine, 2014, 9, 1215.	6.7	40
106	Inhibition of MDA-MB-231 breast cancer cell migration and invasion activity by andrographolide via suppression of nuclear factor-ÎºB-dependent matrix metalloproteinase-9 expression. Molecular Medicine Reports, 2015, 11, 1139-1145.	2.4	40
107	Regulation of Osteoblast Differentiation by Slit2 in Osteoblastic Cells. Cells Tissues Organs, 2009, 190, 69-80.	2.3	39
108	The role of CCAAT/enhancer binding protein (C/EBP)â€Î± in osteogenesis of C3H10T1/2 cells induced by BMPâ€2. Journal of Cellular and Molecular Medicine, 2009, 13, 2489-2505.	3.6	39

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109	Orbital floor repair using patient specific osteoinductive implant made by stereolithography. Biomaterials, 2020, 233, 119721.	11.4	39
110	Increased Number of Mesenchymal Stem Cell-like Cells in Peripheral Blood of Patients with Bone Sarcomas. Archives of Medical Research, 2009, 40, 163-168.	3.3	38
111	Preparation of near micrometer-sized TiO2 nanotube arrays by high voltage anodization. Materials Science and Engineering C, 2013, 33, 259-264.	7.3	38
112	Cytocompatibility and osteogenic activity of a novel calcium phosphate silicate bioceramic: Silicocarnotite. Journal of Biomedical Materials Research - Part A, 2013, 101A, 1955-1961.	4.0	38
113	Hydroxypropyltrimethyl Ammonium Chloride Chitosan Functionalized-PLGA Electrospun Fibrous Membranes as Antibacterial Wound Dressing: In Vitro and In Vivo Evaluation. Polymers, 2017, 9, 697.	4.5	38
114	Mg-based bone implants show promising osteoinductivity and controllable degradation: A long-term study in a goat femoral condyle fracture model. Materials Science and Engineering C, 2018, 86, 42-47.	7.3	38
115	Enhanced osteointegration of orthopaedic implant gradient coating composed of bioactive glass and nanohydroxyapatite. Journal of Materials Science: Materials in Medicine, 2010, 21, 2165-2173.	3.6	37
116	Fabrication and in vitro evaluation of stable collagen/hyaluronic acid biomimetic multilayer on titanium coatings. Journal of the Royal Society Interface, 2013, 10, 20130070.	3.4	37
117	Geraniin suppresses RANKL-induced osteoclastogenesis in vitro and ameliorates wear particle-induced osteolysis in mouse model. Experimental Cell Research, 2015, 330, 91-101.	2.6	37
118	A lithium-containing nanoporous coating on entangled titanium scaffold can enhance osseointegration through Wnt/β-catenin pathway. Nanomedicine: Nanotechnology, Biology, and Medicine, 2018, 14, 153-164.	3.3	37
119	CXCR1 knockdown improves the sensitivity of osteosarcoma to cisplatin. Cancer Letters, 2015, 369, 405-415.	7.2	36
120	Preparation and characterization of three-dimensional nanostructured macroporous bacterial cellulose/agarose scaffold for tissue engineering. Journal of Porous Materials, 2011, 18, 545-552.	2.6	35
121	Molecular pathogenesis of fracture nonunion. Journal of Orthopaedic Translation, 2018, 14, 45-56.	3.9	35
122	Isorhamnetin attenuates osteoarthritis by inhibiting osteoclastogenesis and protecting chondrocytes through modulating reactive oxygen species homeostasis. Journal of Cellular and Molecular Medicine, 2019, 23, 4395-4407.	3.6	35
123	Bioprinting of an osteocyte network for biomimetic mineralization. Biofabrication, 2020, 12, 045013.	7.1	35
124	Surface chemical study on the covalent attachment of hydroxypropyltrimethyl ammonium chloride chitosan to titanium surfaces. Applied Surface Science, 2011, 257, 10520-10528.	6.1	34
125	Pathways of macrophage apoptosis within the interface membrane in aseptic loosening of prostheses. Biomaterials, 2011, 32, 9159-9167.	11.4	34
126	Plumbagin attenuates cancer cell growth and osteoclast formation in the bone microenvironment of mice. Acta Pharmacologica Sinica, 2014, 35, 124-134.	6.1	34

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127	Biofabrication of a PLGA-TCP-based porous bioactive bone substitute with sustained release of icaritin. Journal of Tissue Engineering and Regenerative Medicine, 2015, 9, 961-972.	2.7	34
128	Covalent Immobilization of Enoxacin onto Titanium Implant Surfaces for Inhibiting Multiple Bacterial Species Infection and In Vivo Methicillin-Resistant Staphylococcus aureus Infection Prophylaxis. Antimicrobial Agents and Chemotherapy, 2017, 61, .	3.2	34
129	Differences in acetabular morphology related to side and sex in a Chinese population. Journal of Anatomy, 2012, 220, 256-262.	1.5	32
130	Functional differences between AMPK Î±1 and Î±2 subunits in osteogenesis, osteoblast-associated induction of osteoclastogenesis, and adipogenesis. Scientific Reports, 2016, 6, 32771.	3.3	32
131	Cerium Oxide Nanoparticles Regulate Osteoclast Differentiation Bidirectionally by Modulating the Cellular Production of Reactive Oxygen Species . International Journal of Nanomedicine, 2020, Volume 15, 6355-6372.	6.7	32
132	In vivo evaluation of the anti-infection potential of gentamicin-loaded nanotubes on titania implants. International Journal of Nanomedicine, 2016, 11, 2223.	6.7	31
133	Inhibited Bacterial Adhesion and Biofilm Formation on Quaternized Chitosan-Loaded Titania Nanotubes with Various Diameters. Materials, 2016, 9, 155.	2.9	31
134	miR-203 inhibits the traumatic heterotopic ossification by targeting Runx2. Cell Death and Disease, 2016, 7, e2436-e2436.	6.3	30
135	Effects of magnesium silicate on the mechanical properties, biocompatibility, bioactivity, degradability, and osteogenesis of poly(butylene succinate)-based composite scaffolds for bone repair. Journal of Materials Chemistry B, 2016, 4, 7974-7988.	5.8	30
136	Sox9 Gene Transfer Enhanced Regenerative Effect of Bone Marrow Mesenchymal Stem Cells on the Degenerated Intervertebral Disc in a Rabbit Model. PLoS ONE, 2014, 9, e93570.	2.5	30
137	Immunomodulation effect of a hierarchical macropore/nanosurface on osteogenesis and angiogenesis. Biomedical Materials (Bristol), 2017, 12, 045006.	3.3	29
138	Bacterial inhibition potential of quaternised chitosan-coated VICRYL absorbable suture: An inÂvitro and inÂvivo study. Journal of Orthopaedic Translation, 2017, 8, 49-61.	3.9	29
139	Influences of niobium pentoxide on roughness, hydrophilicity, surface energy and protein absorption, and cellular responses to PEEK based composites for orthopedic applications. Journal of Materials Chemistry B, 2020, 8, 2618-2626.	5.8	29
140	Nonlinear association between magnesium intake and the risk of colorectal cancer. European Journal of Gastroenterology and Hepatology, 2013, 25, 309-318.	1.6	28
141	The use of nuclear imaging for the diagnosis of periprosthetic infection after knee and hip arthroplasties. Nuclear Medicine Communications, 2015, 36, 305-311.	1.1	28
142	Covalent immobilization of KR-12 peptide onto a titanium surface for decreasing infection and promoting osteogenic differentiation. RSC Advances, 2016, 6, 46733-46743.	3.6	28
143	Mesenchymal stem cells and porous Î²-tricalcium phosphate composites prepared through stem cell screen-enrich-combine(â^'biomaterials) circulating system for the repair of critical size bone defects in goat tibia. Stem Cell Research and Therapy, 2018, 9, 157.	5.5	28
144	Enhancement of bone formation by genetically-engineered bone marrow stromal cells expressing BMP-2, VEGF and angiopoietin-1. Biotechnology Letters, 2009, 31, 1183-1189.	2.2	27

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145	The Inhibition of RANKL-Induced Osteoclastogenesis through the Suppression of p38 Signaling Pathway by Naringenin and Attenuation of Titanium-Particle-Induced Osteolysis. International Journal of Molecular Sciences, 2014, 15, 21913-21934.	4.1	27
146	Berberine inhibits Staphylococcus Epidermidis adhesion and biofilm formation on the surface of titanium alloy. Journal of Orthopaedic Research, 2009, 27, 1487-1492.	2.3	26
147	The immunologic properties of undifferentiated and osteogenic differentiated mouse mesenchymal stem cells and its potential application in bone regeneration. Immunobiology, 2009, 214, 179-186.	1.9	24
148	Flexural and compressive mechanical behaviors of the porous titanium materials with entangled wire structure at different sintering conditions for load-bearing biomedical applications. Journal of the Mechanical Behavior of Biomedical Materials, 2013, 28, 309-319.	3.1	24
149	Andrographolide prevents human breast cancer-induced osteoclastic bone loss via attenuated RANKL signaling. Breast Cancer Research and Treatment, 2014, 144, 33-45.	2.5	24
150	TIMP3 regulates osteosarcoma cell migration, invasion, and chemotherapeutic resistances. Tumor Biology, 2016, 37, 8857-8867.	1.8	24
151	Biodegradable macroporous scaffold with nano-crystal surface microstructure for highly effective osteogenesis and vascularization. Journal of Materials Chemistry B, 2018, 6, 1658-1667.	5.8	24
152	Preferential Colonization of Osteoblasts Over Co-cultured Bacteria on a Bifunctional Biomaterial Surface. Frontiers in Microbiology, 2018, 9, 2219.	3.5	24
153	A 3D printed Ga containing scaffold with both anti-infection and bone homeostasis-regulating properties for the treatment of infected bone defects. Journal of Materials Chemistry B, 2021, 9, 4735-4745.	5.8	24
154	Macro-mesoporous composites containing PEEK and mesoporous diopside as bone implants: characterization, in vitro mineralization, cytocompatibility, and vascularization potential and osteogenesis in vivo. Journal of Materials Chemistry B, 2017, 5, 8337-8352.	5.8	24
155	The CREBâ€“Smad6â€“Runx2 axis contributes to the impaired osteogenesis potential of bone marrow stromal cells in fibrous dysplasia of bone. Journal of Pathology, 2012, 228, 45-55.	4.5	23
156	Lithium doped silica nanospheres/poly(dopamine) composite coating on polyetheretherketone to stimulate cell responses, improve bone formation and osseointegration. Nanomedicine: Nanotechnology, Biology, and Medicine, 2018, 14, 965-976.	3.3	23
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