Yuan Yuan

List of Publications by Year
in descending order

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106 papers	4,526 citations	81839 39 h-index	118793 62 g-index
110 all docs	110 docs citations	110 times ranked	5963 citing authors

#	Article	IF	Citations
1	Size-mediated cytotoxicity and apoptosis of hydroxyapatite nanoparticles in human hepatoma HepG2 cells. Biomaterials, 2010, 31, 730-740.	5.7	222
2	Bioinspired trimodal macro/micro/nano-porous scaffolds loading rhBMP-2 for complete regeneration of critical size bone defect. Acta Biomaterialia, 2016, 32, 309-323.	4.1	202
3	Degradable, antibacterial silver exchanged mesoporous silica spheres for hemorrhage control. Biomaterials, 2009, 30, 5364-5375.	5.7	181
4	Magnesium modification of a calcium phosphate cement alters bone marrow stromal cell behavior via an integrin-mediated mechanism. Biomaterials, 2015, 53, 251-264.	5.7	181
5	Impact of Antifouling PEG Layer on the Performance of Functional Peptides in Regulating Cell Behaviors. Journal of the American Chemical Society, 2019, 141, 16772-16780.	6.6	133
6	RhBMP-2-loaded calcium silicate/calcium phosphate cement scaffold with hierarchically porous structure for enhanced bone tissue regeneration. Biomaterials, 2013, 34, 9381-9392.	5.7	130
7	Bioinspired, Injectable, Quaternized Hydroxyethyl Cellulose Composite Hydrogel Coordinated by Mesocellular Silica Foam for Rapid, Noncompressible Hemostasis and Wound Healing. ACS Applied Materials & Interfaces, 2019, 11, 34595-34608.	4.0	128
8	A dual-delivery system of pH-responsive chitosan-functionalized mesoporous silica nanoparticles bearing BMP-2 and dexamethasone for enhanced bone regeneration. Journal of Materials Chemistry B, 2015, 3, 2056-2066.	2.9	116
9	Rapid initiation of guided bone regeneration driven by spatiotemporal delivery of IL-8 and BMP-2 from hierarchical MBG-based scaffold. Biomaterials, 2019, 196, 122-137.	5.7	108
10	Tannic acid-loaded mesoporous silica for rapid hemostasis and antibacterial activity. Biomaterials Science, 2018, 6, 3318-3331.	2.6	104
11	Charge-Reversal APTES-Modified Mesoporous Silica Nanoparticles with High Drug Loading and Release Controllability. ACS Applied Materials & Interfaces, 2016, 8, 17166-17175.	4.0	101
12	Mitochondria-Targeted Hydroxyapatite Nanoparticles for Selective Growth Inhibition of Lung Cancer in Vitro and in Vivo. ACS Applied Materials & Interfaces, 2016, 8, 25680-25690.	4.0	94
13	Nanotechnology platforms for cancer immunotherapy. Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology, 2020, 12, e1590.	3.3	82
14	Injectable Doubleâ€€rosslinked Adhesive Hydrogels with High Mechanical Resilience and Effective Energy Dissipation for Joint Wound Treatment. Advanced Functional Materials, 2022, 32, 2109687.	7.8	81
15	Differential cytotoxicity and particle action of hydroxyapatite nanoparticles in human cancer cells. Nanomedicine, 2014, 9, 397-412.	1.7	78
16	Self-Assembled Injectable Nanocomposite Hydrogels Coordinated by in Situ Generated CaP Nanoparticles for Bone Regeneration. ACS Applied Materials & Interfaces, 2019, 11, 17234-17246.	4.0	73
17	A novel composite coupled hardness with flexiblenessâ€"polylactic acid toughen with thermoplastic polyurethane. Journal of Applied Polymer Science, 2011, 121, 855-861.	1.3	67
18	PEGylated poly(glycerol sebacate)-modified calcium phosphate scaffolds with desirable mechanical behavior and enhanced osteogenic capacity. Acta Biomaterialia, 2016, 44, 110-124.	4.1	67

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19	Î²-Tricalcium phosphate/poly(glycerol sebacate) scaffolds with robust mechanical property for bone tissue engineering. Materials Science and Engineering C, 2015, 56, 37-47.	3.8	66
20	Preferential tumor accumulation and desirable interstitial penetration of poly(lactic-co-glycolic) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 70 glycol-poly(d,l-lactic acid). Acta Biomaterialia, 2016, 29, 248-260.	4.1	65
21	Sulfated polysaccharide directs therapeutic angiogenesis via endogenous VEGF secretion of macrophages. Science Advances, 2021, 7, .	4.7	65
22	A viscoelastic PEGylated poly(glycerol sebacate)-based bilayer scaffold for cartilage regeneration in full-thickness osteochondral defect. Biomaterials, 2020, 253, 120095.	5.7	63
23	Endosomal pH-activatable magnetic nanoparticle-capped mesoporous silica for intracellular controlled release. Journal of Materials Chemistry, 2012, 22, 15960.	6.7	57
24	Dual mechanism Î²-amino acid polymers promoting cell adhesion. Nature Communications, 2021, 12, 562.	5.8	54
25	Poly(glycerol sebacate)-modified polylactic acid scaffolds with improved hydrophilicity, mechanical strength and bioactivity for bone tissue regeneration. RSC Advances, 2015, 5, 79703-79714.	1.7	52
26	Controllable synthesis of spherical hydroxyapatite nanoparticles using inverse microemulsion method. Materials Chemistry and Physics, 2016, 183, 220-229.	2.0	52
27	MBG-Modified Î²-TCP Scaffold Promotes Mesenchymal Stem Cells Adhesion and Osteogenic Differentiation via a FAK/MAPK Signaling Pathway. ACS Applied Materials & Interfaces, 2017, 9, 30283-30296.	4.0	52
28	Injectable Hydrogel with NIR Lightâ€Responsive, Dualâ€Mode PTH Release for Osteoregeneration in Osteoporosis. Advanced Functional Materials, 2021, 31, 2105383.	7.8	50
29	N2â€Polarized Neutrophils Guide Bone Mesenchymal Stem Cell Recruitment and Initiate Bone Regeneration: A Missing Piece of the Bone Regeneration Puzzle. Advanced Science, 2021, 8, e2100584.	5.6	49
30	Harnessing 4D Printing Bioscaffolds for Advanced Orthopedics. Small, 2022, 18, e2106824.	5.2	49
31	Surface Topography Regulates Osteogenic Differentiation of MSCs via Crosstalk between FAK/MAPK and ILK/Î²-Catenin Pathways in a Hierarchically Porous Environment. ACS Biomaterials Science and Engineering, 2017, 3, 3161-3175.	2.6	46
32	Multicellularity-interweaved bone regeneration of BMP-2-loaded scaffold with orchestrated kinetics of resorption and osteogenesis. Biomaterials, 2019, 216, 119216.	5.7	46
33	A poly(glycerol sebacate)-coated mesoporous bioactive glass scaffold with adjustable mechanical strength, degradation rate, controlled-release and cell behavior for bone tissue engineering. Colloids and Surfaces B: Biointerfaces, 2015, 131, 1-11.	2.5	45
34	Correlation of particle properties with cytotoxicity and cellular uptake of hydroxyapatite nanoparticles in human gastric cancer cells. Materials Science and Engineering C, 2016, 67, 453-460.	3.8	45
35	Manipulation of VEGF-induced angiogenesis by 2-N, 6-O-sulfated chitosan. Acta Biomaterialia, 2018, 71, 510-521.	4.1	45
36	Nanostructured hydroxyapatite surfaces-mediated adsorption alters recognition of BMP receptor IA and bioactivity of bone morphogenetic protein-2. Acta Biomaterialia, 2015, 27, 275-285.	4.1	44

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37	Enhanced antitumor efficacy of vitamin E TPGS-emulsified PLGA nanoparticles for delivery of paclitaxel. Colloids and Surfaces B: Biointerfaces, 2014, 123, 716-723.	2.5	43
38	Optimized Synthesis of Biodegradable Elastomer PEGylated Poly(glycerol sebacate) and Their Biomedical Application. Polymers, 2019, 11, 965.	2.0	43
39	Magnesium modification up-regulates the bioactivity of bone morphogenetic protein-2 upon calcium phosphate cement via enhanced BMP receptor recognition and Smad signaling pathway. Colloids and Surfaces B: Biointerfaces, 2016, 145, 140-151.	2.5	42
40	Synergistic Combination of Bioactive Hydroxyapatite Nanoparticles and the Chemotherapeutic Doxorubicin to Overcome Tumor Multidrug Resistance. Small, 2021, 17, e2007672.	5.2	42
41	Parathyroid Hormone Derivative with Reduced Osteoclastic Activity Promoted Bone Regeneration via Synergistic Bone Remodeling and Angiogenesis. Small, 2020, 16, e1905876.	5.2	40
42	Molecular dynamics simulations of adsorption and desorption of bone morphogenetic protein-2 on textured hydroxyapatite surfaces. Acta Biomaterialia, 2018, 80, 121-130.	4.1	38
43	Strontium attenuates rhBMP-2-induced osteogenic differentiation via formation of Sr-rhBMP-2 complex and suppression of Smad-dependent signaling pathway. Acta Biomaterialia, 2016, 33, 290-300.	4.1	37
44	Urethane-based low-temperature curing, highly-customized and multifunctional poly(glycerol) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 462	4.1	37
45	Exosomes: A Novel Therapeutic Agent for Cartilage and Bone Tissue Regeneration. Dose-Response, 2019, 17, 155932581989270.	0.7	37
46	Direct three-dimensional printing of a highly customized freestanding hyperelastic bioscaffold for complex craniomaxillofacial reconstruction. Chemical Engineering Journal, 2021, 411, 128541.	6.6	37
47	Synthesis of mesoporous hydroxyapatite nanoparticles using a template-free sonochemistry-assisted microwave method. Journal of Materials Science, 2013, 48, 5334-5341.	1.7	35
48	Maleimide-based acyclic enediyne for efficient DNA-cleavage and tumor cell suppression. Journal of Materials Chemistry B, 2015, 3, 3195-3200.	2.9	34
49	Localization and promotion of recombinant human bone morphogenetic protein-2 bioactivity on extracellular matrix mimetic chondroitin sulfate-functionalized calcium phosphate cement scaffolds. Acta Biomaterialia, 2018, 71, 184-199.	4.1	34
50	Effective and biocompatible antibacterial surfaces via facile synthesis and surface modification of peptide polymers. Bioactive Materials, 2021, 6, 4531-4541.	8.6	34
51	Facilitated receptor-recognition and enhanced bioactivity of bone morphogenetic protein-2 on magnesium-substituted hydroxyapatite surface. Scientific Reports, 2016, 6, 24323.	1.6	33
52	RhBMP-2 loaded MBG/PEGylated poly(glycerol sebacate) composite scaffolds for rapid bone regeneration. Journal of Materials Chemistry B, 2017, 5, 4633-4647.	2.9	33
53	Spatiotemporal Immunomodulation Using Biomimetic Scaffold Promotes Endochondral Ossificationâ€Mediated Bone Healing. Advanced Science, 2021, 8, e2100143.	5.6	33
54	Recapitulation of In Situ Endochondral Ossification Using an Injectable Hypoxiaâ€Mimetic Hydrogel. Advanced Functional Materials, 2021, 31, 2008515.	7.8	32

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55	Core/Shell PEGS/HA Hybrid Nanoparticle Via Micelle-Coordinated Mineralization for Tumor-Specific Therapy. ACS Applied Materials & Interfaces, 2020, 12, 12109-12119.	4.0	29
56	Fabrication of Injectable, Porous Hyaluronic Acid Hydrogel Based on an In-Situ Bubble-Forming Hydrogel Entrapment Process. Polymers, 2020, 12, 1138.	2.0	28
57	Development of modified and multifunctional poly(glycerol sebacate) (PGS)-based biomaterials for biomedical applications. European Polymer Journal, 2021, 161, 110830.	2.6	27
58	Kaolin-reinforced 3D MBG scaffolds with hierarchical architecture and robust mechanical strength for bone tissue engineering. Journal of Materials Chemistry B, 2014, 2, 3782-3790.	2.9	26
59	Preparation of an rhBMP-2 loaded mesoporous bioactive glass/calcium phosphate cement porous composite scaffold for rapid bone tissue regeneration. Journal of Materials Chemistry B, 2015, 3, 8558-8566.	2.9	26
60	Polyglutamic acid-coordinated assembly of hydroxyapatite nanoparticles for synergistic tumor-specific therapy. Nanoscale, 2019, 11, 15312-15325.	2.8	26
61	Improved BMP2-CPC-stimulated osteogenesis in vitro and in vivo via modulation of macrophage polarization. Materials Science and Engineering C, 2021, 118, 111471.	3.8	25
62	Cytotoxicity and Cellular Uptake of Amorphous Silica Nanoparticles in Human Cancer Cells. Particle and Particle Systems Characterization, 2015, 32, 779-787.	1.2	24
63	Supramolecular aggregates from polyacrylates and Gd(<scp>iii</scp>)-containing cationic surfactants as high-relaxivity MRI contrast agents. Polymer Chemistry, 2015, 6, 1521-1526.	1.9	24
64	A mechanically robust and flexible PEGylated poly(glycerol sebacate)/Î²-TCP nanoparticle composite membrane for guided bone regeneration. Journal of Materials Chemistry B, 2019, 7, 3279-3290.	2.9	24
65	Plasma polymerized n-butyl methacrylate coating with potential for re-endothelialization of intravascular stent devices. Journal of Materials Science: Materials in Medicine, 2008, 19, 2187-2196.	1.7	22
66	Calcium ion-induced formation of Î²-sheet/-turn structure leading to alteration of osteogenic activity of bone morphogenetic protein-2. Scientific Reports, 2015, 5, 12694.	1.6	22
67	Novel porous silica granules for instant hemostasis. RSC Advances, 2016, 6, 78930-78935.	1.7	22
68	Controlled synthesis and transformation of nano-hydroxyapatite with tailored morphologies for biomedical applications. Journal of Materials Chemistry B, 2017, 5, 9148-9156.	2.9	22
69	Strontium doping promotes bioactivity of rhBMP-2 upon calcium phosphate cement via elevated recognition and expression of BMPR-IA. Colloids and Surfaces B: Biointerfaces, 2017, 159, 684-695.	2.5	20
70	Hyperbranched polyethylenimine based polyamine-N-oxide-carboxylate chelates of gadolinium for high relaxivity MRI contrast agents. RSC Advances, 2016, 6, 28063-28068.	1.7	19
71	MBG scaffolds containing chitosan microspheres for binary delivery of IL-8 and BMP-2 for bone regeneration. Journal of Materials Chemistry B, 2018, 6, 4453-4465.	2.9	19
72	Site-directed immobilization of antibodies onto blood contacting grafts for enhanced endothelial cell adhesion and proliferation. Soft Matter, 2011, 7, 7207.	1.2	18

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73	A proton-responsive ensemble using mesocellular foam supports capped with N,O-carboxymethyl chitosan for controlled release of bioactive proteins. Journal of Materials Chemistry B, 2015, 3, 2281-2285.	2.9	18
74	pH-Responsive Fe3O4 Nanopartilces-Capped Mesoporous Silica Supports for Protein Delivery. Journal of Nanoscience and Nanotechnology, 2016, 16, 5470-5479.	0.9	17
75	Microporous density-mediated response of MSCs on 3D trimodal macro/micro/nano-porous scaffolds via fibronectin/integrin and FAK/MAPK signaling pathways. Journal of Materials Chemistry B, 2017, 5, 3586-3599.	2.9	17
76	Gadolinium complexes of diethylenetriamine-N-oxide pentaacetic acid-bisamide: a new class of highly stable MRI contrast agents with a hydration number of 3. Dalton Transactions, 2019, 48, 1693-1699.	1.6	17
77	A biomimetic and bioactive scaffold with intelligently pulsatile teriparatide delivery for local and systemic osteoporosis regeneration. Bioactive Materials, 2023, 19, 75-87.	8.6	17
78	Self-delivery nanoparticles of an amphiphilic irinotecanâ€“enediyne conjugate for cancer combination chemotherapy. Journal of Materials Chemistry B, 2019, 7, 103-111.	2.9	16
79	Facile synthesis of Gd(<scp>iii</scp>) metallosurfactant-functionalized carbon nanodots with high relaxivity as bimodal imaging probes. RSC Advances, 2016, 6, 29441-29447.	1.7	15
80	In situ biodegradable crosslinking of cationic oligomer coating on mesoporous silica nanoparticles for drug delivery. Colloids and Surfaces B: Biointerfaces, 2017, 153, 272-279.	2.5	15
81	Dual-generation dendritic mesoporous silica nanoparticles for co-delivery and kinetically sequential drug release. RSC Advances, 2018, 8, 40598-40610.	1.7	15
82	A novel strategy for tumor therapy: targeted, PAA-functionalized nano-hydroxyapatite nanomedicine. Journal of Materials Chemistry B, 2020, 8, 9589-9600.	2.9	15
83	Comparison of the PLA-mPEG and mPEG-PLA-mPEG copolymers nanoparticles on the plasma protein adsorption and in vivo biodistribution. Soft Matter, 2009, 5, 2875.	1.2	14
84	Surface-induced conformational and functional changes of bone morphogenetic protein-2 adsorbed onto single-walled carbon nanotubes. Biochemical and Biophysical Research Communications, 2013, 440, 215-221.	1.0	14
85	Mesostructured Pd/Mn₃O₄ catalyst for efficient low-temperature CO oxidation especially under moisture condition. RSC Advances, 2014, 4, 35762-35768.	1.7	14
86	Biomaterial-guided immobilization and osteoactivity of bone morphogenetic protein-2. Applied Materials Today, 2020, 19, 100599.	2.3	13
87	In Situ formation of pH-/thermo-sensitive nanohybrids via friendly-assembly of poly(N-vinylpyrrolidone) onto LAPONITEÂ®. RSC Advances, 2016, 6, 31816-31823.	1.7	12
88	Clinical translation of biomedical materials and the key factors towards product registration. Journal of Orthopaedic Translation, 2014, 2, 49-55.	1.9	11
89	Mesoporous PdO/Pt/Al₂O₃ film produced by reverse-micro-emulsion and its application for methane micro-sensor. RSC Advances, 2015, 5, 4586-4591.	1.7	10
90	A Novel Droplet-Fabricated Mesoporous Silica-Based Nanohybrid Granules for Hemorrhage Control. Journal of Biomedical Nanotechnology, 2018, 14, 649-661.	0.5	9

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91	Electrostatic self-assembled nanoparticles based on spherical polyelectrolyte brushes for magnetic resonance imaging. Dalton Transactions, 2018, 47, 7663-7668.	1.6	8
92	Facile synthesis of polypeptoids bearing bulky sidechains via urea accelerated ring-opening polymerization of Î±-amino acid N-substituted N-carboxyanhydrides. Polymer Chemistry, 2022, 13, 420-426.	1.9	8
93	Fabrication and evaluation of a BMP-2/dexamethasone co-loaded gelatin sponge scaffold for rapid bone regeneration. International Journal of Energy Production and Management, 2022, 9, rbac008.	1.9	8
94	Preparation, rheological properties and primary cytocompatibility of TPU/PLA blends as biomedical materials. Journal Wuhan University of Technology, Materials Science Edition, 2016, 31, 211-218.	0.4	7
95	Facile synthesis of meso-structured Pd/FeO_x and its highly catalytic performance for low temperature CO oxidation under ambient conditions. RSC Advances, 2015, 5, 20650-20655.	1.7	6
96	Size-Mediated Adsorption Dynamics, Conformation and Bioactivity of Bone Morphogenetic Protein-2 Onto Silica Nanoparticles. Journal of Nanoscience and Nanotechnology, 2016, 16, 5528-5536.	0.9	6
97	Promotion of dispersion and anticancer efficacy of hydroxyapatite nanoparticles by the adsorption of fetal bovine serum. Journal of Nanoparticle Research, 2019, 21, 1.	0.8	6
98	Antifouling zwitterionic poly-Î²-peptides. Applied Materials Today, 2022, 27, 101511.	2.3	6
99	Tethering of rhBMP-2 upon calcium phosphate cement via alendronate/heparin for localized, sustained and enhanced osteoactivity. RSC Advances, 2017, 7, 20281-20292.	1.7	5
100	Selfâ€assembled nanostructures of diblock copolymer films under homopolymer topcoats. Polymer International, 2020, 69, 728-736.	1.6	5
101	Tethering silver ions on amino-functionalized mesoporous silica for enhanced and sustained antibacterial properties. RSC Advances, 2015, 5, 104289-104298.	1.7	4
102	Discovery, Optimization, and Structureâ€“Activity Relationship Study of Novel and Potent RSK4 Inhibitors as Promising Agents for the Treatment of Esophageal Squamous Cell Carcinoma. Journal of Medicinal Chemistry, 2021, 64, 13572-13587.	2.9	4
103	A Novel Immunoregulatory PEGylated Poly(glycerol sebacate)/Î²â€TCP Membrane for Application in Guided Bone Regeneration. Advanced Materials Interfaces, 0, , 2101218.	1.9	4
104	Bioactive Filmâ€Guided Softâ€“Hard Interface Design Technology for Multiâ€Tissue Integrative Regeneration. Advanced Science, 2022, , 2105945.	5.6	4
105	Bioactivation of Calcium Phosphate Cement by Growth Factors and Their Applications. Springer Series in Biomaterials Science and Engineering, 2018, , 257-298.	0.7	1
106	Heterotellurium-containing macrocycles towards degradable tellurium-functionalized polymers. Polymer Chemistry, 2021, 12, 4467-4471.	1.9	1