

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	A biomimetic and bioactive scaffold with intelligently pulsatile teriparatide delivery for local and systemic osteoporosis regeneration. <i>Bioactive Materials</i> , 2023, 19, 75-87.	8.6	17
2	Injectable Double-Crosslinked Adhesive Hydrogels with High Mechanical Resilience and Effective Energy Dissipation for Joint Wound Treatment. <i>Advanced Functional Materials</i> , 2022, 32, 2109687.	7.8	81
3	Facile synthesis of polypeptoids bearing bulky sidechains via urea accelerated ring-opening polymerization of β -amino acid N -substituted N -carboxyanhydrides. <i>Polymer Chemistry</i> , 2022, 13, 420-426.	1.9	8
4	Harnessing 4D Printing Bioscaffolds for Advanced Orthopedics. <i>Small</i> , 2022, 18, e2106824.	5.2	49
5	Fabrication and evaluation of a BMP-2/dexamethasone co-loaded gelatin sponge scaffold for rapid bone regeneration. <i>International Journal of Energy Production and Management</i> , 2022, 9, rbac008.	1.9	8
6	Bioactive Film-Guided Soft-Hard Interface Design Technology for Multi-Tissue Integrative Regeneration. <i>Advanced Science</i> , 2022, , 2105945.	5.6	4
7	Antifouling zwitterionic poly- β -peptides. <i>Applied Materials Today</i> , 2022, 27, 101511.	2.3	6
8	Improved BMP2-CPC-stimulated osteogenesis in vitro and in vivo via modulation of macrophage polarization. <i>Materials Science and Engineering C</i> , 2021, 118, 111471.	3.8	25
9	Recapitulation of In Situ Endochondral Ossification Using an Injectable Hypoxia-Mimetic Hydrogel. <i>Advanced Functional Materials</i> , 2021, 31, 2008515.	7.8	32
10	Heterotellurium-containing macrocycles towards degradable tellurium-functionalized polymers. <i>Polymer Chemistry</i> , 2021, 12, 4467-4471.	1.9	1
11	Sulfated polysaccharide directs therapeutic angiogenesis via endogenous VEGF secretion of macrophages. <i>Science Advances</i> , 2021, 7, .	4.7	65
12	Spatiotemporal Immunomodulation Using Biomimetic Scaffold Promotes Endochondral Ossification-Mediated Bone Healing. <i>Advanced Science</i> , 2021, 8, e2100143.	5.6	33
13	Synergistic Combination of Bioactive Hydroxyapatite Nanoparticles and the Chemotherapeutic Doxorubicin to Overcome Tumor Multidrug Resistance. <i>Small</i> , 2021, 17, e2007672.	5.2	42
14	Direct three-dimensional printing of a highly customized freestanding hyperelastic bioscaffold for complex craniomaxillofacial reconstruction. <i>Chemical Engineering Journal</i> , 2021, 411, 128541.	6.6	37
15	Injectable Hydrogel with NIR Light-Responsive, Dual-Mode PTH Release for Osteoregeneration in Osteoporosis. <i>Advanced Functional Materials</i> , 2021, 31, 2105383.	7.8	50
16	N_2 -Polarized Neutrophils Guide Bone Mesenchymal Stem Cell Recruitment and Initiate Bone Regeneration: A Missing Piece of the Bone Regeneration Puzzle. <i>Advanced Science</i> , 2021, 8, e2100584.	5.6	49
17	Discovery, Optimization, and Structure-Activity Relationship Study of Novel and Potent RSK4 Inhibitors as Promising Agents for the Treatment of Esophageal Squamous Cell Carcinoma. <i>Journal of Medicinal Chemistry</i> , 2021, 64, 13572-13587.	2.9	4
18	Effective and biocompatible antibacterial surfaces via facile synthesis and surface modification of peptide polymers. <i>Bioactive Materials</i> , 2021, 6, 4531-4541.	8.6	34

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19	Dual mechanism β -amino acid polymers promoting cell adhesion. <i>Nature Communications</i> , 2021, 12, 562.	5.8	54
20	Development of modified and multifunctional poly(glycerol sebacate) (PGS)-based biomaterials for biomedical applications. <i>European Polymer Journal</i> , 2021, 161, 110830.	2.6	27
21	Nanotechnology platforms for cancer immunotherapy. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , 2020, 12, e1590.	3.3	82
22	A novel strategy for tumor therapy: targeted, PAA-functionalized nano-hydroxyapatite nanomedicine. <i>Journal of Materials Chemistry B</i> , 2020, 8, 9589-9600.	2.9	15
23	Fabrication of Injectable, Porous Hyaluronic Acid Hydrogel Based on an In-Situ Bubble-Forming Hydrogel Entrapment Process. <i>Polymers</i> , 2020, 12, 1138.	2.0	28
24	A viscoelastic PEGylated poly(glycerol sebacate)-based bilayer scaffold for cartilage regeneration in full-thickness osteochondral defect. <i>Biomaterials</i> , 2020, 253, 120095.	5.7	63
25	Biomaterial-guided immobilization and osteoactivity of bone morphogenetic protein-2. <i>Applied Materials Today</i> , 2020, 19, 100599.	2.3	13
26	Core/Shell PEGS/HA Hybrid Nanoparticle Via Micelle-Coordinated Mineralization for Tumor-Specific Therapy. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 12109-12119.	4.0	29
27	Parathyroid Hormone Derivative with Reduced Osteoclastic Activity Promoted Bone Regeneration via Synergistic Bone Remodeling and Angiogenesis. <i>Small</i> , 2020, 16, e1905876.	5.2	40
28	Self-Assembled nanostructures of diblock copolymer films under homopolymer topcoats. <i>Polymer International</i> , 2020, 69, 728-736.	1.6	5
29	Polyglutamic acid-coordinated assembly of hydroxyapatite nanoparticles for synergistic tumor-specific therapy. <i>Nanoscale</i> , 2019, 11, 15312-15325.	2.8	26
30	Bioinspired, Injectable, Quaternized Hydroxyethyl Cellulose Composite Hydrogel Coordinated by Mesocellular Silica Foam for Rapid, Noncompressible Hemostasis and Wound Healing. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 34595-34608.	4.0	128
31	Impact of Antifouling PEG Layer on the Performance of Functional Peptides in Regulating Cell Behaviors. <i>Journal of the American Chemical Society</i> , 2019, 141, 16772-16780.	6.6	133
32	Self-delivery nanoparticles of an amphiphilic irinotecan-enediynes conjugate for cancer combination chemotherapy. <i>Journal of Materials Chemistry B</i> , 2019, 7, 103-111.	2.9	16
33	Gadolinium complexes of diethylenetriamine- <i>N</i> -oxide pentaacetic acid-bisamide: a new class of highly stable MRI contrast agents with a hydration number of 3. <i>Dalton Transactions</i> , 2019, 48, 1693-1699.	1.6	17
34	Optimized Synthesis of Biodegradable Elastomer PEGylated Poly(glycerol sebacate) and Their Biomedical Application. <i>Polymers</i> , 2019, 11, 965.	2.0	43
35	Multicellularity-interweaved bone regeneration of BMP-2-loaded scaffold with orchestrated kinetics of resorption and osteogenesis. <i>Biomaterials</i> , 2019, 216, 119216.	5.7	46
36	Self-Assembled Injectable Nanocomposite Hydrogels Coordinated by in Situ Generated CaP Nanoparticles for Bone Regeneration. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 17234-17246.	4.0	73

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37	A mechanically robust and flexible PEGylated poly(glycerol sebacate)/ β -TCP nanoparticle composite membrane for guided bone regeneration. <i>Journal of Materials Chemistry B</i> , 2019, 7, 3279-3290.	2.9	24
38	Promotion of dispersion and anticancer efficacy of hydroxyapatite nanoparticles by the adsorption of fetal bovine serum. <i>Journal of Nanoparticle Research</i> , 2019, 21, 1.	0.8	6
39	Exosomes: A Novel Therapeutic Agent for Cartilage and Bone Tissue Regeneration. <i>Dose-Response</i> , 2019, 17, 155932581989270.	0.7	37
40	Rapid initiation of guided bone regeneration driven by spatiotemporal delivery of IL-8 and BMP-2 from hierarchical MBG-based scaffold. <i>Biomaterials</i> , 2019, 196, 122-137.	5.7	108
41	Electrostatic self-assembled nanoparticles based on spherical polyelectrolyte brushes for magnetic resonance imaging. <i>Dalton Transactions</i> , 2018, 47, 7663-7668.	1.6	8
42	Manipulation of VEGF-induced angiogenesis by 2-N, 6-O-sulfated chitosan. <i>Acta Biomaterialia</i> , 2018, 71, 510-521.	4.1	45
43	Localization and promotion of recombinant human bone morphogenetic protein-2 bioactivity on extracellular matrix mimetic chondroitin sulfate-functionalized calcium phosphate cement scaffolds. <i>Acta Biomaterialia</i> , 2018, 71, 184-199.	4.1	34
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	Bioactivation of Calcium Phosphate Cement by Growth Factors and Their Applications. <i>Springer Series in Biomaterials Science and Engineering</i> , 2018, , 257-298.	0.7	1
46	Dual-generation dendritic mesoporous silica nanoparticles for co-delivery and kinetically sequential drug release. <i>RSC Advances</i> , 2018, 8, 40598-40610.	1.7	15
47	Tannic acid-loaded mesoporous silica for rapid hemostasis and antibacterial activity. <i>Biomaterials Science</i> , 2018, 6, 3318-3331.	2.6	104
48	Molecular dynamics simulations of adsorption and desorption of bone morphogenetic protein-2 on textured hydroxyapatite surfaces. <i>Acta Biomaterialia</i> , 2018, 80, 121-130.	4.1	38
49	MBG scaffolds containing chitosan microspheres for binary delivery of IL-8 and BMP-2 for bone regeneration. <i>Journal of Materials Chemistry B</i> , 2018, 6, 4453-4465.	2.9	19
50	A Novel Droplet-Fabricated Mesoporous Silica-Based Nanohybrid Granules for Hemorrhage Control. <i>Journal of Biomedical Nanotechnology</i> , 2018, 14, 649-661.	0.5	9
51	In situ biodegradable crosslinking of cationic oligomer coating on mesoporous silica nanoparticles for drug delivery. <i>Colloids and Surfaces B: Biointerfaces</i> , 2017, 153, 272-279.	2.5	15
52	Tethering of rhBMP-2 upon calcium phosphate cement via alendronate/heparin for localized, sustained and enhanced osteoactivity. <i>RSC Advances</i> , 2017, 7, 20281-20292.	1.7	5
53	Microporous density-mediated response of MSCs on 3D trimodal macro/micro/nano-porous scaffolds via fibronectin/integrin and FAK/MAPK signaling pathways. <i>Journal of Materials Chemistry B</i> , 2017, 5, 3586-3599.	2.9	17
54	RhBMP-2 loaded MBG/PEGylated poly(glycerol sebacate) composite scaffolds for rapid bone regeneration. <i>Journal of Materials Chemistry B</i> , 2017, 5, 4633-4647.	2.9	33

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55	Surface Topography Regulates Osteogenic Differentiation of MSCs via Crosstalk between FAK/MAPK and ILK/ β 2-Catenin Pathways in a Hierarchically Porous Environment. <i>ACS Biomaterials Science and Engineering</i> , 2017, 3, 3161-3175.	2.6	46
56	MBG-Modified β 2-TCP Scaffold Promotes Mesenchymal Stem Cells Adhesion and Osteogenic Differentiation via a FAK/MAPK Signaling Pathway. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 30283-30296.	4.0	52
57	Controlled synthesis and transformation of nano-hydroxyapatite with tailored morphologies for biomedical applications. <i>Journal of Materials Chemistry B</i> , 2017, 5, 9148-9156.	2.9	22
58	Strontium doping promotes bioactivity of rhBMP-2 upon calcium phosphate cement via elevated recognition and expression of BMPR-IA. <i>Colloids and Surfaces B: Biointerfaces</i> , 2017, 159, 684-695.	2.5	20
59	Bioinspired trimodal macro/micro/nano-porous scaffolds loading rhBMP-2 for complete regeneration of critical size bone defect. <i>Acta Biomaterialia</i> , 2016, 32, 309-323.	4.1	202
60	pH-Responsive Fe ₃ O ₄ Nanoparticles-Capped Mesoporous Silica Supports for Protein Delivery. <i>Journal of Nanoscience and Nanotechnology</i> , 2016, 16, 5470-5479.	0.9	17
61	Size-Mediated Adsorption Dynamics, Conformation and Bioactivity of Bone Morphogenetic Protein-2 Onto Silica Nanoparticles. <i>Journal of Nanoscience and Nanotechnology</i> , 2016, 16, 5528-5536.	0.9	6
62	Magnesium modification up-regulates the bioactivity of bone morphogenetic protein-2 upon calcium phosphate cement via enhanced BMP receptor recognition and Smad signaling pathway. <i>Colloids and Surfaces B: Biointerfaces</i> , 2016, 145, 140-151.	2.5	42
63	Mitochondria-Targeted Hydroxyapatite Nanoparticles for Selective Growth Inhibition of Lung Cancer in Vitro and in Vivo. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 25680-25690.	4.0	94
64	Novel porous silica granules for instant hemostasis. <i>RSC Advances</i> , 2016, 6, 78930-78935.	1.7	22
65	PEGylated poly(glycerol sebacate)-modified calcium phosphate scaffolds with desirable mechanical behavior and enhanced osteogenic capacity. <i>Acta Biomaterialia</i> , 2016, 44, 110-124.	4.1	67
66	Controllable synthesis of spherical hydroxyapatite nanoparticles using inverse microemulsion method. <i>Materials Chemistry and Physics</i> , 2016, 183, 220-229.	2.0	52
67	Facilitated receptor-recognition and enhanced bioactivity of bone morphogenetic protein-2 on magnesium-substituted hydroxyapatite surface. <i>Scientific Reports</i> , 2016, 6, 24323.	1.6	33
68	Charge-Reversal APTES-Modified Mesoporous Silica Nanoparticles with High Drug Loading and Release Controllability. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 17166-17175.	4.0	101
69	Correlation of particle properties with cytotoxicity and cellular uptake of hydroxyapatite nanoparticles in human gastric cancer cells. <i>Materials Science and Engineering C</i> , 2016, 67, 453-460.	3.8	45
70	Preferential tumor accumulation and desirable interstitial penetration of poly(lactic-co-glycolic) glycol-poly(d,l-lactic acid). <i>Acta Biomaterialia</i> , 2016, 29, 248-260.	4.1	65
71	Facile synthesis of Gd(PO_4) ₃ metallosurfactant-functionalized carbon nanodots with high relaxivity as bimodal imaging probes. <i>RSC Advances</i> , 2016, 6, 29441-29447.	1.7	15
72	In Situ formation of pH-/thermo-sensitive nanohybrids via friendly-assembly of poly(N-vinylpyrrolidone) onto LAPONITE®. <i>RSC Advances</i> , 2016, 6, 31816-31823.	1.7	12

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73	Hyperbranched polyethylenimine based polyamine-N-oxide-carboxylate chelates of gadolinium for high relaxivity MRI contrast agents. <i>RSC Advances</i> , 2016, 6, 28063-28068.	1.7	19
74	Strontium attenuates rhBMP-2-induced osteogenic differentiation via formation of Sr-rhBMP-2 complex and suppression of Smad-dependent signaling pathway. <i>Acta Biomaterialia</i> , 2016, 33, 290-300.	4.1	37
75	Preparation, rheological properties and primary cytocompatibility of TPU/PLA blends as biomedical materials. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2016, 31, 211-218.	0.4	7
76	Magnesium modification of a calcium phosphate cement alters bone marrow stromal cell behavior via an integrin-mediated mechanism. <i>Biomaterials</i> , 2015, 53, 251-264.	5.7	181
77	Tethering silver ions on amino-functionalized mesoporous silica for enhanced and sustained antibacterial properties. <i>RSC Advances</i> , 2015, 5, 104289-104298.	1.7	4
78	Cytotoxicity and Cellular Uptake of Amorphous Silica Nanoparticles in Human Cancer Cells. <i>Particle and Particle Systems Characterization</i> , 2015, 32, 779-787.	1.2	24
79	A dual-delivery system of pH-responsive chitosan-functionalized mesoporous silica nanoparticles bearing BMP-2 and dexamethasone for enhanced bone regeneration. <i>Journal of Materials Chemistry B</i> , 2015, 3, 2056-2066.	2.9	116
80	A proton-responsive ensemble using mesocellular foam supports capped with N,O-carboxymethyl chitosan for controlled release of bioactive proteins. <i>Journal of Materials Chemistry B</i> , 2015, 3, 2281-2285.	2.9	18
81	Calcium ion-induced formation of β -sheet/turn structure leading to alteration of osteogenic activity of bone morphogenetic protein-2. <i>Scientific Reports</i> , 2015, 5, 12694.	1.6	22
82	β -Tricalcium phosphate/poly(glycerol sebacate) scaffolds with robust mechanical property for bone tissue engineering. <i>Materials Science and Engineering C</i> , 2015, 56, 37-47.	3.8	66
83	A poly(glycerol sebacate)-coated mesoporous bioactive glass scaffold with adjustable mechanical strength, degradation rate, controlled-release and cell behavior for bone tissue engineering. <i>Colloids and Surfaces B: Biointerfaces</i> , 2015, 131, 1-11.	2.5	45
84	Poly(glycerol sebacate)-modified polylactic acid scaffolds with improved hydrophilicity, mechanical strength and bioactivity for bone tissue regeneration. <i>RSC Advances</i> , 2015, 5, 79703-79714.	1.7	52
85	Preparation of an rhBMP-2 loaded mesoporous bioactive glass/calcium phosphate cement porous composite scaffold for rapid bone tissue regeneration. <i>Journal of Materials Chemistry B</i> , 2015, 3, 8558-8566.	2.9	26
86	Maleimide-based acyclic enediyne for efficient DNA-cleavage and tumor cell suppression. <i>Journal of Materials Chemistry B</i> , 2015, 3, 3195-3200.	2.9	34
87	Facile synthesis of meso-structured Pd/FeO _x and its highly catalytic performance for low temperature CO oxidation under ambient conditions. <i>RSC Advances</i> , 2015, 5, 20650-20655.	1.7	6
88	Nanostructured hydroxyapatite surfaces-mediated adsorption alters recognition of BMP receptor IA and bioactivity of bone morphogenetic protein-2. <i>Acta Biomaterialia</i> , 2015, 27, 275-285.	4.1	44
89	Mesoporous PdO/Pt/Al ₂ O ₃ film produced by reverse-micro-emulsion and its application for methane micro-sensor. <i>RSC Advances</i> , 2015, 5, 4586-4591.	1.7	10
90	Supramolecular aggregates from polyacrylates and Gd(III)-containing cationic surfactants as high-relaxivity MRI contrast agents. <i>Polymer Chemistry</i> , 2015, 6, 1521-1526.	1.9	24

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91	Enhanced antitumor efficacy of vitamin E TPGS-emulsified PLGA nanoparticles for delivery of paclitaxel. <i>Colloids and Surfaces B: Biointerfaces</i> , 2014, 123, 716-723.	2.5	43
92	Mesostructured Pd/Mn ₃ O ₄ catalyst for efficient low-temperature CO oxidation especially under moisture condition. <i>RSC Advances</i> , 2014, 4, 35762-35768.	1.7	14
93	Kaolin-reinforced 3D MBC scaffolds with hierarchical architecture and robust mechanical strength for bone tissue engineering. <i>Journal of Materials Chemistry B</i> , 2014, 2, 3782-3790.	2.9	26
94	Clinical translation of biomedical materials and the key factors towards product registration. <i>Journal of Orthopaedic Translation</i> , 2014, 2, 49-55.	1.9	11
95	Differential cytotoxicity and particle action of hydroxyapatite nanoparticles in human cancer cells. <i>Nanomedicine</i> , 2014, 9, 397-412.	1.7	78
96	Synthesis of mesoporous hydroxyapatite nanoparticles using a template-free sonochemistry-assisted microwave method. <i>Journal of Materials Science</i> , 2013, 48, 5334-5341.	1.7	35
97	Surface-induced conformational and functional changes of bone morphogenetic protein-2 adsorbed onto single-walled carbon nanotubes. <i>Biochemical and Biophysical Research Communications</i> , 2013, 440, 215-221.	1.0	14
98	RhBMP-2-loaded calcium silicate/calcium phosphate cement scaffold with hierarchically porous structure for enhanced bone tissue regeneration. <i>Biomaterials</i> , 2013, 34, 9381-9392.	5.7	130
99	Endosomal pH-activatable magnetic nanoparticle-capped mesoporous silica for intracellular controlled release. <i>Journal of Materials Chemistry</i> , 2012, 22, 15960.	6.7	57
100	Site-directed immobilization of antibodies onto blood contacting grafts for enhanced endothelial cell adhesion and proliferation. <i>Soft Matter</i> , 2011, 7, 7207.	1.2	18
101	A novel composite coupled hardness with flexibility—polylactic acid toughen with thermoplastic polyurethane. <i>Journal of Applied Polymer Science</i> , 2011, 121, 855-861.	1.3	67
102	Size-mediated cytotoxicity and apoptosis of hydroxyapatite nanoparticles in human hepatoma HepG2 cells. <i>Biomaterials</i> , 2010, 31, 730-740.	5.7	222
103	Degradable, antibacterial silver exchanged mesoporous silica spheres for hemorrhage control. <i>Biomaterials</i> , 2009, 30, 5364-5375.	5.7	181
104	Comparison of the PLA-mPEG and mPEG-PLA-mPEG copolymers nanoparticles on the plasma protein adsorption and in vivo biodistribution. <i>Soft Matter</i> , 2009, 5, 2875.	1.2	14
105	Plasma polymerized n-butyl methacrylate coating with potential for re-endothelialization of intravascular stent devices. <i>Journal of Materials Science: Materials in Medicine</i> , 2008, 19, 2187-2196.	1.7	22
106	A Novel Immunoregulatory PEGylated Poly(glycerol sebacate)/ β -TCP Membrane for Application in Guided Bone Regeneration. <i>Advanced Materials Interfaces</i> , 0, , 2101218.	1.9	4