

# Xiaojun Zhou

## 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.

80 papers	2,664 citations	29 h-index	50 g-index
86 ext. papers	3,403 ext. citations	7.5 avg, IF	5.28 L-index

#	Paper	IF	Citations
80	Effect of pH-responsive alginate/chitosan multilayers coating on delivery efficiency, cellular uptake and biodistribution of mesoporous silica nanoparticles based nanocarriers. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 8447-60	9.5	175
79	Three-dimensional porous scaffold by self-assembly of reduced graphene oxide and nano-hydroxyapatite composites for bone tissue engineering. <i>Carbon</i> , <b>2017</b> , 116, 325-337	10.4	154
78	BMP-2 Derived Peptide and Dexamethasone Incorporated Mesoporous Silica Nanoparticles for Enhanced Osteogenic Differentiation of Bone Mesenchymal Stem Cells. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 15777-89	9.5	152
77	Flower-like PEGylated MoS <sub>2</sub> nanoflakes for near-infrared photothermal cancer therapy. <i>Scientific Reports</i> , <b>2015</b> , 5, 17422	4.9	148
76	Doxorubicin-loaded electrospun poly(L-lactic acid)/mesoporous silica nanoparticles composite nanofibers for potential postsurgical cancer treatment. <i>Journal of Materials Chemistry B</i> , <b>2013</b> , 1, 4601-4611	7.3	142
75	Au/polypyrrole@Fe <sub>3</sub> O <sub>4</sub> nanocomposites for MR/CT dual-modal imaging guided-photothermal therapy: an in vitro study. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 4354-67	9.5	114
74	Polyelectrolyte multilayer functionalized mesoporous silica nanoparticles for pH-responsive drug delivery: layer thickness-dependent release profiles and biocompatibility. <i>Journal of Materials Chemistry B</i> , <b>2013</b> , 1, 5886-5898	7.3	100
73	Multifunctional Redox-Responsive Mesoporous Silica Nanoparticles for Efficient Targeting Drug Delivery and Magnetic Resonance Imaging. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 33829-33841	9.5	89
72	One-Pot Synthesis of MoS Nanoflakes with Desirable Degradability for Photothermal Cancer Therapy. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 17347-17358	9.5	87
71	Electrophoretic Deposition of Dexamethasone-Loaded Mesoporous Silica Nanoparticles onto Poly(L-Lactic Acid)/Poly(ε-Caprolactone) Composite Scaffold for Bone Tissue Engineering. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 4137-48	9.5	79
70	In vitro and in vivo toxicity studies of copper sulfide nanoplates for potential photothermal applications. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , <b>2015</b> , 11, 901-12	6	77
69	Mechanically and biologically skin-like elastomers for bio-integrated electronics. <i>Nature Communications</i> , <b>2020</b> , 11, 1107	17.4	75
68	Dual-Responsive Mesoporous Silica Nanoparticles Mediated Codelivery of Doxorubicin and Bcl-2 siRNA for Targeted Treatment of Breast Cancer. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 22375-22387	7.8	73
67	Marriage of Albumin-Gadolinium Complexes and MoS Nanoflakes as Cancer Theranostics for Dual-Modality Magnetic Resonance/Photoacoustic Imaging and Photothermal Therapy. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 17786-17798	9.5	72
66	3D-printed IFN- $\gamma$ -loading calcium silicate-tricalcium phosphate scaffold sequentially activates M1 and M2 polarization of macrophages to promote vascularization of tissue engineering bone. <i>Acta Biomaterialia</i> , <b>2018</b> , 71, 96-107	10.8	70
65	Controllable fabrication of hydroxybutyl chitosan/oxidized chondroitin sulfate hydrogels by 3D bioprinting technique for cartilage tissue engineering. <i>Biomedical Materials (Bristol)</i> , <b>2019</b> , 14, 025006	3.5	57
64	Tannic acid-reinforced methacrylated chitosan/methacrylated silk fibroin hydrogels with multifunctionality for accelerating wound healing. <i>Carbohydrate Polymers</i> , <b>2020</b> , 247, 116689	10.3	50

63	Heparinized PLLA/PLCL nanofibrous scaffold for potential engineering of small-diameter blood vessel: tunable elasticity and anticoagulation property. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2015</b> , 103, 1784-97	5.4	46
62	Facile synthesis of novel albumin-functionalized flower-like MoS <sub>2</sub> nanoparticles for in vitro chemo-photothermal synergistic therapy. <i>RSC Advances</i> , <b>2016</b> , 6, 13040-13049	3.7	46
61	In vitro and in vivo studies of a gelatin/carboxymethyl chitosan/LAPONITE® composite scaffold for bone tissue engineering. <i>RSC Advances</i> , <b>2017</b> , 7, 54100-54110	3.7	46
60	Mesoporous silica nanoparticles/gelatin porous composite scaffolds with localized and sustained release of vancomycin for treatment of infected bone defects. <i>Journal of Materials Chemistry B</i> , <b>2018</b> , 6, 740-752	7.3	43
59	Mesoporous silica nanoparticles for tissue-engineering applications. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , <b>2019</b> , 11, e1573	9.2	43
58	Merging metal organic framework with hollow organosilica nanoparticles as a versatile nanoplatform for cancer theranostics. <i>Acta Biomaterialia</i> , <b>2019</b> , 86, 406-415	10.8	42
57	Synthesis and characterization of poly(glycerol sebacate)-based elastomeric copolyesters for tissue engineering applications. <i>Polymer Chemistry</i> , <b>2016</b> , 7, 2553-2564	4.9	38
56	Bi-layered electrospun nanofibrous membrane with osteogenic and antibacterial properties for guided bone regeneration. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2019</b> , 176, 219-229	6	38
55	Synthesis of hollow mesoporous silica nanoparticles with tunable shell thickness and pore size using amphiphilic block copolymers as core templates. <i>Dalton Transactions</i> , <b>2014</b> , 43, 11834-42	4.3	35
54	Fabrication of heterogeneous porous bilayered nanofibrous vascular grafts by two-step phase separation technique. <i>Acta Biomaterialia</i> , <b>2018</b> , 79, 168-181	10.8	34
53	Three-dimensional bioprinting of multicell-laden scaffolds containing bone morphogenic protein-4 for promoting M2 macrophage polarization and accelerating bone defect repair in diabetes mellitus. <i>Bioactive Materials</i> , <b>2021</b> , 6, 757-769	16.7	30
52	Mussel-Inspired Nanostructures Potentiate the Immunomodulatory Properties and Angiogenesis of Mesenchymal Stem Cells. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 17134-17146	9.5	29
51	Controlled release of vancomycin from 3D porous graphene-based composites for dual-purpose treatment of infected bone defects. <i>RSC Advances</i> , <b>2017</b> , 7, 2753-2765	3.7	25
50	Strontium-incorporated mineralized PLLA nanofibrous membranes for promoting bone defect repair. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2019</b> , 179, 363-373	6	24
49	Electrospun nanofibers incorporating self-decomposable silica nanoparticles as carriers for controlled delivery of anticancer drug. <i>RSC Advances</i> , <b>2015</b> , 5, 65897-65904	3.7	23
48	Interleukin-35 Inhibits TNF-Induced Osteoclastogenesis and Promotes Apoptosis Shifting the Activation From TNF Receptor-Associated Death Domain (TRADD)-TRAF2 to TRADD-Fas-Associated Death Domain by JAK1/STAT1. <i>Frontiers in Immunology</i> , <b>2018</b> , 9, 1417	8.4	22
47	Cartilage-targeting peptide-modified dual-drug delivery nanoplatform with NIR laser response for osteoarthritis therapy. <i>Bioactive Materials</i> , <b>2021</b> , 6, 2372-2389	16.7	22
46	Incorporation of dexamethasone-loaded mesoporous silica nanoparticles into mineralized porous biocomposite scaffolds for improving osteogenic activity. <i>International Journal of Biological Macromolecules</i> , <b>2020</b> , 149, 116-126	7.9	21

45	Porous nanofibrous scaffold incorporated with S1P loaded mesoporous silica nanoparticles and BMP-2 encapsulated PLGA microspheres for enhancing angiogenesis and osteogenesis. <i>Journal of Materials Chemistry B</i> , <b>2018</b> , 6, 6731-6743	7.3	21
44	Construction of nanofibrous scaffolds with interconnected perfusable microchannel networks for engineering of vascularized bone tissue. <i>Bioactive Materials</i> , <b>2021</b> , 6, 3254-3268	16.7	21
43	Radiation Induces Apoptosis and Osteogenic Impairment through miR-22-Mediated Intracellular Oxidative Stress in Bone Marrow Mesenchymal Stem Cells. <i>Stem Cells International</i> , <b>2018</b> , 2018, 5845402 <sup>5</sup>		19
42	Versatile Nanocarrier Based on Functionalized Mesoporous Silica Nanoparticles to Codeliver Osteogenic Gene and Drug for Enhanced Osteodifferentiation. <i>ACS Biomaterials Science and Engineering</i> , <b>2019</b> , 5, 710-723	5.5	18
41	Macroporous nanofibrous vascular scaffold with improved biodegradability and smooth muscle cells infiltration prepared by dual phase separation technique. <i>International Journal of Nanomedicine</i> , <b>2018</b> , 13, 7003-7018	7.3	16
40	Tumor-targeted biodegradable multifunctional nanoparticles for cancer theranostics. <i>Chemical Engineering Journal</i> , <b>2019</b> , 378, 122171	14.7	15
39	Interactions between activated sludge extracellular polymeric substances and model carrier surfaces in WWTPs: A combination of QCM-D, AFM and XDLVO prediction. <i>Chemosphere</i> , <b>2020</b> , 253, 126720	8.4	13
38	Biodegradable Mesoporous Silica Nanocarrier Bearing Angiogenic QK Peptide and Dexamethasone for Accelerating Angiogenesis in Bone Regeneration. <i>ACS Biomaterials Science and Engineering</i> , <b>2019</b> , 5, 6766-6778	5.5	13
37	Barrier heights of hydrogen-transfer reactions with diffusion quantum monte carlo method. <i>Journal of Computational Chemistry</i> , <b>2017</b> , 38, 798-806	3.5	12
36	A new model for the electrical conductivity of cement-based material by considering pore size distribution. <i>Magazine of Concrete Research</i> , <b>2017</b> , 69, 1067-1078	2	12
35	Construction of a nanofiber network within 3D printed scaffolds for vascularized bone regeneration. <i>Biomaterials Science</i> , <b>2021</b> , 9, 2631-2646	7.4	12
34	Carbohydrate metabolism and gene regulation during anther development in an androdioecious tree, <i>Tapiscia sinensis</i> . <i>Annals of Botany</i> , <b>2017</b> , 120, 967-977	4.1	11
33	Local Delivery of BMP-2 from Poly(lactic-co-glycolic acid) Microspheres Incorporated into Porous Nanofibrous Scaffold for Bone Tissue Regeneration. <i>Journal of Biomedical Nanotechnology</i> , <b>2017</b> , 13, 1446-1456	4	11
32	Bilayered Scaffold Prepared from a Kartogenin-Loaded Hydrogel and BMP-2-Derived Peptide-Loaded Porous Nanofibrous Scaffold for Osteochondral Defect Repair. <i>ACS Biomaterials Science and Engineering</i> , <b>2019</b> , 5, 4564-4573	5.5	11
31	Construction of 3D printed constructs based on microfluidic microgel for bone regeneration. <i>Composites Part B: Engineering</i> , <b>2021</b> , 223, 109100	10	10
30	Performance of the Diffusion Quantum Monte Carlo Method with a Single-Slater-Jastrow Trial Wavefunction Using Natural Orbitals and Density Functional Theory Orbitals on Atomization Energies of the Gaussian-2 Set. <i>Journal of Physical Chemistry A</i> , <b>2019</b> , 123, 3809-3817	2.8	9
29	Synthesis and characterization of nanofibrous hollow microspheres with tunable size and morphology via thermally induced phase separation technique. <i>RSC Advances</i> , <b>2015</b> , 5, 61580-61585	3.7	9
28	Impacts of carrier properties, environmental conditions and extracellular polymeric substances on biofilm formation of sieved fine particles from activated sludge. <i>Science of the Total Environment</i> , <b>2020</b> , 731, 139196	10.2	9

27	Fixed-Node Diffusion Quantum Monte Carlo Method on Dissociation Energies and Their Trends for R-X Bonds (R = Me, Et, i-Pr, t-Bu). <i>Journal of Physical Chemistry A</i> , <b>2018</b> , 122, 5050-5057	2.8	8
26	Bone Microenvironment-Mimetic Scaffolds with Hierarchical Microstructure for Enhanced Vascularization and Bone Regeneration. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 2200011	15.6	8
25	Aggregation and deposition behaviors of dissolved black carbon with coexisting heavy metals in aquatic solution. <i>Environmental Science: Nano</i> , <b>2020</b> , 7, 2773-2784	7.1	7
24	Patient-specific Scaffolds with a Biomimetic Gradient Environment for Articular Cartilage-Subchondral Bone Regeneration.. <i>ACS Applied Bio Materials</i> , <b>2020</b> , 3, 4820-4831	4.1	6
23	Localized delivery of FTY-720 from 3D printed cell-laden gelatin/silk fibroin composite scaffolds for enhanced vascularized bone regeneration. <i>Smart Materials in Medicine</i> , <b>2022</b> , 3, 217-229	12.9	6
22	Manganese-doped gold core mesoporous silica particles as a nanoplatform for dual-modality imaging and chemo-chemodynamic combination osteosarcoma therapy. <i>Nanoscale</i> , <b>2021</b> , 13, 5077-5093	7.7	6
21	Strontium-doped gelatin scaffolds promote M2 macrophage switch and angiogenesis through modulating the polarization of neutrophils. <i>Biomaterials Science</i> , <b>2021</b> , 9, 2931-2946	7.4	6
20	Analytical energy gradients for ionized states using equation-of-motion coupled-cluster theory with spin-orbit coupling. <i>Journal of Chemical Physics</i> , <b>2019</b> , 150, 154114	3.9	5
19	3D bioprinted gelatin/gellan gum-based scaffold with double-crosslinking network for vascularized bone regeneration.. <i>Carbohydrate Polymers</i> , <b>2022</b> , 290, 119469	10.3	5
18	Thermo-and pH dual-responsive mesoporous silica nanoparticles for controlled drug release. <i>Journal of Controlled Release</i> , <b>2015</b> , 213, e69-70	11.7	4
17	Design of a Subway Station Crossing Urban Trunk Road by Open Cut and Tunneling Method <b>2013</b> ,		4
16	Reactive Oxygen Species-Based Biomaterials for Regenerative Medicine and Tissue Engineering Applications.. <i>Frontiers in Bioengineering and Biotechnology</i> , <b>2021</b> , 9, 821288	5.8	4
15	Singlet-triplet gaps in diradicals obtained with diffusion quantum Monte Carlo using a Slater-Jastrow trial wavefunction with a minimum number of determinants. <i>Physical Chemistry Chemical Physics</i> , <b>2019</b> , 21, 20422-20431	3.6	3
14	The opposite functions of miR-24 in the osteogenesis and adipogenesis of adipose-derived mesenchymal stem cells are mediated by the HOXB7/Eatenin complex. <i>FASEB Journal</i> , <b>2020</b> , 34, 9034-9050	8.9	3
13	Study on Structural Design and Construction Procedure for a Triple Arch Railway Tunnel <b>2013</b> ,		3
12	3D bioprinting of proangiogenic constructs with induced immunomodulatory microenvironments through a dual cross-linking procedure using laponite incorporated bioink. <i>Composites Part B: Engineering</i> , <b>2021</b> , 229, 109399	10	3
11	One-step synthesis of multifunctional nanoparticles for CT/PA imaging guided breast cancer photothermal therapy. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2021</b> , 201, 111630	6	3
10	Coupling metal organic frameworks with molybdenum disulfide nanoflakes for targeted cancer theranostics. <i>Biomaterials Science</i> , <b>2021</b> , 9, 3306-3318	7.4	3

- 9 A drug delivery system based on novel hollow mesoporous silica nanospheres. *Journal of Controlled Release*, **2015**, 213, e108-9 11.7 2
- 8 Tumor cell membrane-camouflaged responsive nanoparticles enable MRI-guided immuno-chemodynamic therapy of orthotopic osteosarcoma.. *Bioactive Materials*, **2022**, 17, 221-233 16.7 2
- 7 Research Center of 3D Bioprinting in Shanghai Ninth People's Hospital. *Bio-Design and Manufacturing*, **2019**, 2, 213-220 4.7 1
- 6 Polymeric Nanosystems for Immunogenic Cell Death-Based Cancer Immunotherapy. *Macromolecular Bioscience*, **2021**, 21, e2100075 5.5 1
- 5 Evaluation of Interleukin-4-Loaded Sodium Alginate-Chitosan Microspheres for Their Support of Microvascularization in Engineered Tissues. *ACS Biomaterials Science and Engineering*, **2021**, 7, 4946-4958 5.5 1
- 4 Research Update on Bioreactors Used in Tissue Engineering. *Journal of Shanghai Jiaotong University (Science)*, **2021**, 26, 272-283 0.6 0
- 3 Nanosensitizers With Ultrasound-Induced Reactive Oxygen Species Generation for Cancer Sonodynamic Immunotherapy. *Frontiers in Bioengineering and Biotechnology*, **2021**, 9, 761218 5.8 0
- 2 Cover Image, Volume 11, Issue 6. *Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology*, **2019**, 11, e1597 9.2
- 1 A novel bit-error indicating scheme using only one judge threshold. *Science Bulletin*, **2009**, 54, 3674-3678