

Xujie Liu

List of Publications by Citations

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57
papers

1,263
citations

23
h-index

33
g-index

59
ext. papers

1,595
ext. citations

6
avg, IF

4.58
L-index

#	Paper	IF	Citations
57	Effects of hierarchical micro/nano-topographies on the morphology, proliferation and differentiation of osteoblast-like cells. <i>Colloids and Surfaces B: Biointerfaces</i> , 2016 , 145, 37-45	6	100
56	Surface modification by allylamine plasma polymerization promotes osteogenic differentiation of human adipose-derived stem cells. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 9733-41	9.5	76
55	Systemic Delivery of Tumor-Targeting siRNA Nanoparticles against an Oncogenic LncRNA Facilitates Effective Triple-Negative Breast Cancer Therapy. <i>Bioconjugate Chemistry</i> , 2019 , 30, 907-919	6.3	75
54	A novel thermo-sensitive hydrogel based on thiolated chitosan/hydroxyapatite/beta-glycerophosphate. <i>Carbohydrate Polymers</i> , 2014 , 110, 62-9	10.3	69
53	Specific heat treatment of selective laser melted Ti6Al4V for biomedical applications. <i>Frontiers of Materials Science</i> , 2015 , 9, 373-381	2.5	51
52	The stimulatory effect of silica nanoparticles on osteogenic differentiation of human mesenchymal stem cells. <i>Biomedical Materials (Bristol)</i> , 2016 , 12, 015001	3.5	44
51	Novel micro/nanostructured TiO ₂ /ZnO coating with antibacterial capacity and cytocompatibility. <i>Ceramics International</i> , 2018 , 44, 9711-9719	5.1	44
50	Small Titanium-Based MOFs Prepared with the Introduction of Tetraethyl Orthosilicate and Their Potential for Use in Drug Delivery. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 13325-13332	9.5	42
49	Surface Chemical Gradient Affects the Differentiation of Human Adipose-Derived Stem Cells via ERK1/2 Signaling Pathway. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 18473-82	9.5	41
48	In Vitro Uptake of Hydroxyapatite Nanoparticles and Their Effect on Osteogenic Differentiation of Human Mesenchymal Stem Cells. <i>Stem Cells International</i> , 2018 , 2018, 2036176	5	37
47	The Cu-containing TiO coatings with modulatory effects on macrophage polarization and bactericidal capacity prepared by micro-arc oxidation on titanium substrates. <i>Colloids and Surfaces B: Biointerfaces</i> , 2018 , 170, 242-250	6	36
46	Influence of silver nanoparticles on osteogenic differentiation of human mesenchymal stem cells. <i>Journal of Biomedical Nanotechnology</i> , 2014 , 10, 1277-85	4	36
45	Silver nanoparticle based coatings enhance adipogenesis compared to osteogenesis in human mesenchymal stem cells through oxidative stress. <i>Journal of Materials Chemistry B</i> , 2016 , 4, 1466-1479	7.3	35
44	A novel titania/calcium silicate hydrate hierarchical coating on titanium. <i>Colloids and Surfaces B: Biointerfaces</i> , 2015 , 134, 169-77	6	34
43	Zero-order controlled release of BMP2-derived peptide P24 from the chitosan scaffold by chemical grafting modification technique for promotion of osteogenesis vitro and enhancement of bone repair. <i>Theranostics</i> , 2017 , 7, 1072-1087	12.1	34
42	In vitro BMP-2 peptide release from thiolated chitosan based hydrogel. <i>International Journal of Biological Macromolecules</i> , 2016 , 93, 314-321	7.9	29
41	In Vitro Uptake of Silver Nanoparticles and Their Toxicity in Human Mesenchymal Stem Cells Derived from Bone Marrow. <i>Journal of Nanoscience and Nanotechnology</i> , 2016 , 16, 219-28	1.3	29

40	Surface chemical functionalities affect the behavior of human adipose-derived stem cells in vitro. <i>Applied Surface Science</i> , 2013 , 270, 473-479	6.7	29
39	Preparation and characterization of TiO ₂ /silicate hierarchical coating on titanium surface for biomedical applications. <i>Materials Science and Engineering C</i> , 2016 , 60, 308-316	8.3	28
38	Injectable hyaluronan-methylcellulose composite hydrogel crosslinked by polyethylene glycol for central nervous system tissue engineering. <i>Materials Science and Engineering C</i> , 2017 , 81, 1-7	8.3	27
37	In Vitro Effect of 30 nm Silver Nanoparticles on Adipogenic Differentiation of Human Mesenchymal Stem Cells. <i>Journal of Biomedical Nanotechnology</i> , 2016 , 12, 525-35	4	26
36	Incorporation of silica nanoparticles to PLGA electrospun fibers for osteogenic differentiation of human osteoblast-like cells. <i>International Journal of Energy Production and Management</i> , 2018 , 5, 229-238	5.3	24
35	Enhanced SaOS-2 cell adhesion, proliferation and differentiation on Mg-incorporated micro/nano-topographical TiO ₂ coatings. <i>Applied Surface Science</i> , 2018 , 447, 767-776	6.7	23
34	The negative effect of silica nanoparticles on adipogenic differentiation of human mesenchymal stem cells. <i>Materials Science and Engineering C</i> , 2017 , 81, 341-348	8.3	22
33	The immunomodulatory effects of Zn-incorporated micro/nanostructured coating in inducing osteogenesis. <i>Artificial Cells, Nanomedicine and Biotechnology</i> , 2018 , 46, 1123-1130	6.1	17
32	The osteogenic, inflammatory and osteo-immunomodulatory performances of biomedical Ti-Ta metal-metal composite with Ca- and Si-containing bioceramic coatings. <i>Colloids and Surfaces B: Biointerfaces</i> , 2018 , 169, 49-59	6	17
31	Silver nanoparticles stimulate osteogenesis of human mesenchymal stem cells through activation of autophagy. <i>Nanomedicine</i> , 2020 , 15, 337-353	5.6	16
30	SaOS-2 cell response to macro-porous boron-incorporated TiO ₂ coating prepared by micro-arc oxidation on titanium. <i>Materials Science and Engineering C</i> , 2016 , 67, 195-204	8.3	16
29	The development of Cu-incorporated micro/nano-topographical bio-ceramic coatings for enhanced osteoblast response. <i>Applied Surface Science</i> , 2019 , 465, 575-583	6.7	16
28	Langmuir-Blodgett self-assembly of ultrathin graphene quantum dot films with modulated optical properties. <i>Nanoscale</i> , 2018 , 10, 19612-19620	7.7	16
27	Enhanced hydrophilicity and in vitro bioactivity of porous TiO ₂ film through the incorporation of boron. <i>Ceramics International</i> , 2015 , 41, 4452-4459	5.1	14
26	A dual-layer macro/mesoporous structured TiO surface improves the initial adhesion of osteoblast-like cells. <i>Materials Science and Engineering C</i> , 2017 , 78, 443-451	8.3	13
25	Review of Functionalized Nanomaterials for Photothermal Therapy of Cancers. <i>ACS Applied Nano Materials</i> , 2021 , 4, 11353-11385	5.6	13
24	Effects of the hierarchical macro/mesoporous structure on the osteoblast-like cell response. <i>Journal of Biomedical Materials Research - Part A</i> , 2018 , 106, 1896-1902	5.4	12
23	Calcium carbonate nanoparticles promote osteogenesis compared to adipogenesis in human bone-marrow mesenchymal stem cells. <i>Progress in Natural Science: Materials International</i> , 2018 , 28, 598-608	3.6	12

22	In vitro 30 nm silver nanoparticles promote chondrogenesis of human mesenchymal stem cells. <i>RSC Advances</i> , 2015 , 5, 49809-49818	3.7	11
21	Micro/nanostructured TiO/ZnO coating enhances osteogenic activity of SaOS-2 cells. <i>Artificial Cells, Nanomedicine and Biotechnology</i> , 2019 , 47, 2838-2845	6.1	11
20	Fabrication and mechanical properties of mesoporous silica nanoparticles reinforced magnesium matrix composite. <i>Journal of Alloys and Compounds</i> , 2017 , 728, 413-423	5.7	11
19	Fabrication and in vitro evaluation of PCL/gelatin hierarchical scaffolds based on melt electrospinning writing and solution electrospinning for bone regeneration. <i>Materials Science and Engineering C</i> , 2021 , 128, 112287	8.3	11
18	Formulation of Biocompatible Targeted ECO/siRNA Nanoparticles with Long-Term Stability for Clinical Translation of RNAi. <i>Nucleic Acid Therapeutics</i> , 2019 , 29, 195-207	4.8	10
17	The promotion of bone tissue regeneration by BMP2-derived peptide P24-loaded calcium phosphate cement microspheres. <i>Ceramics International</i> , 2016 , 42, 3177-3189	5.1	10
16	The co-effect of surface topography gradient fabricated via immobilization of gold nanoparticles and surface chemistry via deposition of plasma polymerized film of allylamine/acrylic acid on osteoblast-like cell behavior. <i>Applied Surface Science</i> , 2019 , 473, 838-847	6.7	9
15	The effect of hydroxyapatite nanoparticles on adipogenic differentiation of human mesenchymal stem cells. <i>Journal of Biomedical Materials Research - Part A</i> , 2018 , 106, 1822-1831	5.4	6
14	Carrier-Free Microspheres of an Anti-Cancer Drug Synthesized via a Sodium Catalyst for Controlled-Release Drug Delivery. <i>Materials</i> , 2018 , 11,	3.5	6
13	A facile way to prepare mesoporous spherical calcites controlled by chondroitin sulfate for shape and carboxymethyl chitosan for size. <i>CrystEngComm</i> , 2016 , 18, 8582-8586	3.3	5
12	A novel dual microsphere based on water-soluble thiolated chitosan/mesoporous calcium carbonate for controlled dual drug delivery. <i>Materials Letters</i> , 2021 , 285, 129142	3.3	4
11	A cyclo-trimer of acetonitrile combining fluorescent property with ability to induce osteogenesis and its potential as multifunctional biomaterial. <i>Acta Biomaterialia</i> , 2018 , 65, 163-173	10.8	2
10	Selective deposition of CaCO ₃ on chemical gradient surface generated by plasma polymerization and its effect on cell adhesion. <i>Materials Letters</i> , 2017 , 186, 90-93	3.3	2
9	Dose-dependent enhancement of bioactivity by surface ZnO nanostructures on acid-etched pure titanium. <i>Advances in Applied Ceramics</i> , 2019 , 118, 121-125	2.3	2
8	ZnO nanostructures enhance the osteogenic capacity of SaOS-2 cells on acid-etched pure Ti. <i>Materials Letters</i> , 2018 , 215, 173-175	3.3	2
7	Boron-containing micro/nano-structured TiO ₂ /bioceramics coatings with modulatory effects on SaOS-2 cell response. <i>Materials Letters</i> , 2018 , 228, 29-32	3.3	2
6	Role of eIF4E on epithelial-mesenchymal transition, invasion, and chemoresistance of prostate cancer cells. <i>Cancer Communications</i> , 2020 , 40, 126-131	9.4	1
5	Synergistic Effect of Surface Chemistry and Surface Topography Gradient on Osteogenic/Adipogenic Differentiation of hMSCs. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 30306-30316	8.5	1

4	A mitochondria-targeted thiazoleorange-based photothermal agent for enhanced photothermal therapy for tumors. <i>Bioorganic Chemistry</i> , 2021 , 113, 104954	5.1	1
3	The introduction of nanotopography suppresses bacterial adhesion and enhances osteoinductive capacity of plasma deposited polyoxazoline surface. <i>Materials Letters</i> , 2022 , 309, 131452	3.3	0
2	Sequential Delivery of BMP2-Derived Peptide P24 by Thiolated Chitosan/Calcium Carbonate Composite Microspheres Scaffolds for Bone Regeneration. <i>Journal of Nanomaterials</i> , 2020 , 2020, 1-10	3.2	0
1	A smart small molecule as specific fluorescent probe for sensitive recognition of mitochondrial DNA G-Quadruplexes. <i>Chemical Engineering Journal</i> , 2022 , 441, 135977	14.7	0