Zongliang Wang

List of Publications by Year
in descending order

49	1,203	331670 21	414414 32
papers	citations	h-index	g-index

50	50	50	1584
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Peptide-Grafted Microspheres for Mesenchymal Stem Cell Sorting and Expansion by Selective Adhesion. Frontiers in Bioengineering and Biotechnology, 2022, 10, 873125.	4.1	3
2	Antibacterial microspheres with a bionic red-blood-cell like hollow structure and superior swelling recovery capacity for efficient traumatic hemostasis. Applied Materials Today, 2022, 29, 101559.	4.3	4
3	Spatiotemporal Magnetocaloric Microenvironment for Guiding the Fate of Biodegradable Polymer Implants. Advanced Functional Materials, 2021, 31, 2009661.	14.9	19
4	Porous polyetheretherketone microcarriers fabricated via hydroxylation together with cell-derived mineralized extracellular matrix coatings promote cell expansion and bone regeneration. International Journal of Energy Production and Management, 2021, 8, rbab013.	3.7	12
5	Enhancing antibacterial capability and osseointegration of polyetheretherketone (PEEK) implants by dual-functional surface modification. Materials and Design, 2021, 205, 109733.	7.0	31
6	DOPA-derived electroactive copolymer and IGF-1 immobilized poly(lactic-co-glycolic) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 547 Td (acid) Journal, 2021, 416, 129129.	12.7	22
7	Improved hemostatic effects by Fe3+ modified biomimetic PLLA cotton-like mat via sodium alginate grafted with dopamine. Bioactive Materials, 2021, 6, 2346-2359.	15.6	51
8	A rapid quantitation of cell attachment and spreading based on digital image analysis: Application for cell affinity and compatibility assessment of synthetic polymers. Materials Science and Engineering C, 2021, 128, 112267.	7.3	5
9	EDTMP ligand-enhanced water interactions endowing iron oxide nanoparticles with dual-modal MRI contrast ability. Journal of Materials Chemistry B, 2021, 9, 9055-9066.	5.8	8
10	Mussel-Inspired Conducting Copolymer with Aniline Tetramer as Intelligent Biological Adhesive for Bone Tissue Engineering. ACS Biomaterials Science and Engineering, 2020, 6, 634-646.	5.2	49
11	Incorporation of Gadolinium Oxide and Gadolinium Oxysulfide Microspheres: MRI/CT Monitoring and Promotion of Osteogenic/Chondrogenic Differentiation for Bone Implants. ChemNanoMat, 2020, 6, 1819-1832.	2.8	2
12	Stem Cell Seeded and Silver Nanoparticles Loaded Bilayer PLGA/PVA Dressings for Wound Healing. Macromolecular Bioscience, 2020, 20, e2000141.	4.1	12
13	Gadolinium-Doped BTO-Functionalized Nanocomposites with Enhanced MRI and X-ray Dual Imaging to Simulate the Electrical Properties of Bone. ACS Applied Materials & Interfaces, 2020, 12, 49464-49479.	8.0	41
14	Highly Permeable Gelatin/Poly(lactic acid) Fibrous Scaffolds with a Three-Dimensional Spatial Structure for Efficient Cell Infiltration, Mineralization and Bone Regeneration. ACS Applied Bio Materials, 2020, 3, 6932-6943.	4.6	5
15	Enhanced osteogenic activities of polyetheretherketone surface modified by poly(sodium pâ€styrene) Tj ETQq1 1 0.784314 rgBT /Ov	2.6	4
16	Covalently functionalized poly(etheretherketone) implants with osteogenic growth peptide (OGP) to improve osteogenesis activity. RSC Advances, 2020, 10, 9777-9785.	3.6	25
17	Gaseous sulfur trioxide induced controllable sulfonation promoting biomineralization and osseointegration of polyetheretherketone implants. Bioactive Materials, 2020, 5, 1004-1017.	15.6	49
18	3D-printing of solvent exchange deposition modeling (SEDM) for a bilayered flexible skin substitute of poly (lactide-co-glycolide) with bioorthogonally engineered EGF. Materials Science and Engineering C, 2020, 112, 110942.	7.3	25

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19	Microcarriers with Controllable Size via Electrified Liquid Jets and Phase Separation Technique Promote Cell Proliferation and Osteogenic Differentiation. ACS Applied Bio Materials, 2019, 2, 4134-4141.	4.6	6
20	Biomimetic polyetheretherketone microcarriers with specific surface topography and self-secreted extracellular matrix for large-scale cell expansion. International Journal of Energy Production and Management, 2019, 7, 109-118.	3.7	4
21	Preparation of polycarbonate/gelatine microspheres using a high-voltage electrostatic technique for enhancing the adhesion and proliferation of mesenchymal stem cells. Journal of Materials Science, 2019, 54, 7180-7197.	3.7	10
22	Immobilization via polydopamine of dual growth factors on polyetheretherketone: improvement of cell adhesion, proliferation, and osteo-differentiation. Journal of Materials Science, 2019, 54, 11179-11196.	3.7	27
23	Electroactive Nanocomposite Porous Scaffolds of PAP_n/op-HA/PLGA Enhance Osteogenesis in Vivo. ACS Applied Bio Materials, 2019, 2, 1464-1476.	4.6	12
24	Porous Scaffolds of Poly(lactic-co-glycolic acid) and Mesoporous Hydroxyapatite Surface Modified by Poly(Î³-benzyl-<scp>l</scp>-glutamate) (PBLG) for in Vivo Bone Repair. ACS Biomaterials Science and Engineering, 2019, 5, 2466-2481.	5.2	20
25	An electrically and magnetically responsive nanocomposite of GdPO₄Â·H₂O/P3HT/PLGA with electrical stimulation for synergistically enhancing the proliferation and differentiation of pre-osteoblasts. New Journal of Chemistry, 2019, 43, 17315-17326.	2.8	13
26	Synergistic osteogenesis promoted by magnetically actuated nano-mechanical stimuli. Nanoscale, 2019, 11, 23423-23437.	5.6	57
27	A Novel Approach via Surface Modification of Degradable Polymers With Adhesive DOPA-IGF-1 for Neural Tissue Engineering. Journal of Pharmaceutical Sciences, 2019, 108, 551-562.	3.3	11
28	In situ polymerization of poly(Î³-benzyl-<scp>l</scp>-glutamate) on mesoporous hydroxyapatite with high graft amounts for the direct fabrication of biodegradable cell microcarriers and their osteogenic induction. Journal of Materials Chemistry B, 2018, 6, 3315-3330.	5.8	13
29	Binding efficiency of recombinant collagenâ€binding basic fibroblast growth factors (CBDâ€bFGFs) and their promotion for NIHâ€3T3 cell proliferation. Biopolymers, 2018, 109, e23105.	2.4	4
30	Cotton-like micro- and nanoscale poly(lactic acid) nonwoven fibers fabricated by centrifugal melt-spinning for tissue engineering. RSC Advances, 2018, 8, 5166-5179.	3.6	25
31	Degradable Three Dimensional-Printed Polylactic Acid Scaffold with Long-Term Antibacterial Activity. ACS Sustainable Chemistry and Engineering, 2018, 6, 2047-2054.	6.7	32
32	Preparation and Characterization of Silver Sulfadiazineâ€“Loaded Polyvinyl Alcohol Hydrogels as an Antibacterial Wound Dressing. Journal of Pharmaceutical Sciences, 2018, 107, 2377-2384.	3.3	24
33	Micro-porous polyetheretherketone implants decorated with BMP-2 via phosphorylated gelatin coating for enhancing cell adhesion and osteogenic differentiation. Colloids and Surfaces B: Biointerfaces, 2018, 169, 233-241.	5.0	62
34	Intracellular calcium ions and morphological changes of cardiac myoblasts response to an intelligent biodegradable conducting copolymer. Materials Science and Engineering C, 2018, 90, 168-179.	7.3	16
35	An injectable hydroxyapatite/poly(lactide-co-glycolide) composite reinforced by micro/nano-hybrid poly(glycolide) fibers for bone repair. Materials Science and Engineering C, 2017, 80, 326-334.	7.3	24
36	In vitro degradation behavior of a hydroxyapatite/poly(lactide-co-glycolide) composite reinforced by micro/nano-hybrid poly(glycolide) fibers for bone repair. Journal of Materials Chemistry B, 2017, 5, 8695-8706.	5.8	13

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37	Biomimetic porous collagen/hydroxyapatite scaffold for bone tissue engineering. Journal of Applied Polymer Science, 2017, 134, 45271.	2.6	47
38	Modulation of Osteogenesis in MC3T3-E1 Cells by Different Frequency Electrical Stimulation. PLoS ONE, 2016, 11, e0154924.	2.5	36
39	Improved Cell Adhesion and Osteogenesis of op-HA/PLGA Composite by Poly(dopamine)-Assisted Immobilization of Collagen Mimetic Peptide and Osteogenic Growth Peptide. ACS Applied Materials & Interfaces, 2016, 8, 26559-26569.	8.0	93
40	In Vivo MRI and Xâ€Ray Bifunctional Imaging of Polymeric Composite Supplemented with GdPO₄Â·H₂O Nanobundles for Tracing Bone Implant and Bone Regeneration. Advanced Healthcare Materials, 2016, 5, 2182-2190.	7.6	21
41	A comparative study on the in vivo degradation of poly(L-lactide) based composite implants for bone fracture fixation. Scientific Reports, 2016, 6, 20770.	3.3	59
42	Improved cellular infiltration into 3D interconnected microchannel scaffolds formed by using melt-spun sacrificial microfibers. RSC Advances, 2016, 6, 2131-2134.	3.6	11
43	The â€œPure Marriageâ€•between 3D Printing and Well-Ordered Nanoarrays by Using PEALD Assisted Hydrothermal Surface Engineering. ACS Applied Materials & Interfaces, 2016, 8, 8393-8400.	8.0	17
44	Photo-immobilization of bone morphogenic protein 2 on PLGA/HA nanocomposites to enhance the osteogenesis of adipose-derived stem cells. RSC Advances, 2016, 6, 20202-20210.	3.6	23
45	Enhanced in Vitro Mineralization and in Vivo Osteogenesis of Composite Scaffolds through Controlled Surface Grafting of <scp>l</scp>-Lactic Acid Oligomer on Nanohydroxyapatite. Biomacromolecules, 2016, 17, 818-829.	5.4	35
46	Methylsulfonylmethane-loaded electrospun poly(lactide-co-glycolide) mats for cartilage tissue engineering. RSC Advances, 2015, 5, 96725-96732.	3.6	14
47	Back Cover: Macromol. Biosci. 8/2015. Macromolecular Bioscience, 2015, 15, 1174-1174.	4.1	0
48	Biodegradable Microcarriers of Poly(Lactide-co-Glycolide) and Nano-Hydroxyapatite Decorated with IGF-1 via Polydopamine Coating for Enhancing Cell Proliferation and Osteogenic Differentiation. Macromolecular Bioscience, 2015, 15, 1070-1080.	4.1	61
49	Environmental pH-controlled loading and release of protein on mesoporous hydroxyapatite nanoparticles for bone tissue engineering. Materials Science and Engineering C, 2015, 46, 158-165.	7.3	44