Xifeng Liu

List of Publications by Year
in descending order

49 papers	1,574 citations	279798 23 h-index	315739 38 g-index
53 all docs	53 docs citations	53 times ranked	2381 citing authors

#	Article	IF	Citations
1	Functionalized Carbon Nanotube and Graphene Oxide Embedded Electrically Conductive Hydrogel Synergistically Stimulates Nerve Cell Differentiation. ACS Applied Materials & Interfaces, 2017, 9, 14677-14690.	8.0	179
2	Two-Dimensional Black Phosphorus and Graphene Oxide Nanosheets Synergistically Enhance Cell Proliferation and Osteogenesis on 3D Printed Scaffolds. ACS Applied Materials & Interfaces, 2019, 11, 23558-23572.	8.0	101
3	Strengthening injectable thermo-sensitive NIPAAm-g-chitosan hydrogels using chemical cross-linking of disulfide bonds as scaffolds for tissue engineering. Carbohydrate Polymers, 2018, 192, 308-316.	10.2	87
4	Effective nerve cell modulation by electrical stimulation of carbon nanotube embedded conductive polymeric scaffolds. Biomaterials Science, 2018, 6, 2375-2385.	5.4	73
5	3D-printed scaffolds with carbon nanotubes for bone tissue engineering: Fast and homogeneous one-step functionalization. Acta Biomaterialia, 2020, 111, 129-140.	8.3	69
6	Covalent crosslinking of graphene oxide and carbon nanotube into hydrogels enhances nerve cell responses. Journal of Materials Chemistry B, 2016, 4, 6930-6941.	5.8	63
7	Electrically conductive nanocomposite hydrogels embedded with functionalized carbon nanotubes for spinal cord injury. New Journal of Chemistry, 2018, 42, 17671-17681.	2.8	63
8	Injectable Electrical Conductive and Phosphate Releasing Gel with Two-Dimensional Black Phosphorus and Carbon Nanotubes for Bone Tissue Engineering. ACS Biomaterials Science and Engineering, 2020, 6, 4653-4665.	5.2	46
9	Facile synthesis of gold nanorods/hydrogels core/shell nanospheres for pH and near-infrared-light induced release of 5-fluorouracil and chemo-photothermal therapy. Colloids and Surfaces B: Biointerfaces, 2015, 128, 498-505.	5.0	42
10	Poly(Îµ-caprolactone) Dendrimer Cross-Linked via Metal-Free Click Chemistry: Injectable Hydrophobic Platform for Tissue Engineering. ACS Macro Letters, 2016, 5, 1261-1265.	4.8	35
11	Enhanced nerve cell proliferation and differentiation on electrically conductive scaffolds embedded with graphene and carbon nanotubes. Journal of Biomedical Materials Research - Part A, 2021, 109, 193-206.	4.0	33
12	Novel biodegradable poly(propylene fumarate)-co-poly(l-lactic acid) porous scaffolds fabricated by phase separation for tissue engineering applications. RSC Advances, 2015, 5, 21301-21309.	3.6	32
13	Biodegradable and crosslinkable PPFâ€"PLGAâ€"PEG self-assembled nanoparticles dual-decorated with folic acid ligands and Rhodamine B fluorescent probes for targeted cancer imaging. RSC Advances, 2015, 5, 33275-33282.	3.6	31
14	Roles of Hydroxyapatite Allocation and Microgroove Dimension in Promoting Preosteoblastic Cell Functions on Photocured Polymer Nanocomposites through Nuclear Distribution and Alignment. Langmuir, 2015, 31, 2851-2860.	3.5	29
15	2D phosphorene nanosheets, quantum dots, nanoribbons: synthesis and biomedical applications. Biomaterials Science, 2021, 9, 2768-2803.	5.4	29
16	Enhanced bone cell functions on poly(Îµ-caprolactone) triacrylate networks grafted with polyhedral oligomeric silsesquioxane nanocages. Polymer, 2014, 55, 3836-3845.	3.8	26
17	Elastic and thermodynamic properties of Mo2C polymorphs from first principles calculations. Ceramics International, 2015, 41, 5239-5246.	4.8	26
18	Expansile crosslinked polymersomes for pH sensitive delivery of doxorubicin. Biomaterials Science, 2016, 4, 245-249.	5.4	26

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19	Bone morphogenetic protein-2 release profile modulates bone formation in phosphorylated hydrogel. Journal of Tissue Engineering and Regenerative Medicine, 2018, 12, 1339-1351.	2.7	26
20	Tunable tissue scaffolds fabricated by in situ crosslink in phase separation system. RSC Advances, 2015, 5, 100824-100833.	3.6	24
21	Phosphate Functional Groups Improve Oligo[(Polyethylene Glycol) Fumarate] Osteoconduction and BMP-2 Osteoinductive Efficacy. Tissue Engineering - Part A, 2018, 24, 819-829.	3.1	23
22	Strontiumâ€substituted hydroxyapatite stimulates osteogenesis on poly(propylene fumarate) nanocomposite scaffolds. Journal of Biomedical Materials Research - Part A, 2019, 107, 631-642.	4.0	22
23	<scp>3D</scp> bioprinting of oligo(poly[ethylene glycol] fumarate) for bone and nerve tissue engineering. Journal of Biomedical Materials Research - Part A, 2021, 109, 6-17.	4.0	22
24	Scaffold-Free Spheroids with Two-Dimensional Heteronano-Layers (2DHNL) Enabling Stem Cell and Osteogenic Factor Codelivery for Bone Repair. ACS Nano, 2022, 16, 2741-2755.	14.6	21
25	Novel porous poly(propylene fumarateâ€coâ€caprolactone) scaffolds fabricated by thermally induced phase separation. Journal of Biomedical Materials Research - Part A, 2017, 105, 226-235.	4.0	18
26	Fast functionalization of ultrasound microbubbles using strain promoted click chemistry. Biomaterials Science, 2018, 6, 623-632.	5.4	18
27	Injectable Catalyst-Free Poly(Propylene Fumarate) System Cross-Linked by Strain Promoted Alkyneâ€"Azide Cycloaddition Click Chemistry for Spine Defect Filling. Biomacromolecules, 2019, 20, 3352-3365.	5.4	18
28	Injectable catalyst-free â€œclickâ€•organic-inorganic nanohybrid (click-ON) cement for minimally invasive in vivo bone repair. Biomaterials, 2021, 276, 121014.	11.4	18
29	Phosphate functionalization and enzymatic calcium mineralization synergistically enhance oligo[poly(ethylene glycol) fumarate] hydrogel osteoconductivity for bone tissue engineering. Journal of Biomedical Materials Research - Part A, 2020, 108, 515-527.	4.0	17
30	Rapid conjugation of nanoparticles, proteins and siRNAs to microbubbles by strain-promoted click chemistry for ultrasound imaging and drug delivery. Polymer Chemistry, 2019, 10, 705-717.	3.9	15
31	Effect of Biomaterial Electrical Charge on Bone Morphogenetic Protein-2-Induced <i>In Vivo</i> Bone Formation. Tissue Engineering - Part A, 2019, 25, 1037-1052.	3.1	15
32	Mesenchymal stem cell spheroids incorporated with collagen and black phosphorus promote osteogenesis of biodegradable hydrogels. Materials Science and Engineering C, 2021, 121, 111812.	7.3	15
33	Poly(Caprolactone Fumarate) and Oligo[Poly(Ethylene Glycol) Fumarate]: Two Decades of Exploration in Biomedical Applications. Polymer Reviews, 2021, 61, 319-356.	10.9	14
34	Two-dimensional nanomaterials-added dynamism in 3D printing and bioprinting of biomedical platforms: Unique opportunities and challenges. Biomaterials, 2022, 284, 121507.	11.4	14
35	Bifunctional hydrogel for potential vascularized bone tissue regeneration. Materials Science and Engineering C, 2021, 124, 112075.	7.3	13
36	Hydrolysable core crosslinked particles for receptor-mediated pH-sensitive anticancer drug delivery. New Journal of Chemistry, 2015, 39, 8840-8847.	2.8	12

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37	A New Vertebral Body Replacement Strategy Using Expandable Polymeric Cages. Tissue Engineering - Part A, 2017, 23, 223-232.	3.1	12
38	Poly(Propylene Fumarate)â€"Hydroxyapatite Nanocomposite Can Be a Suitable Candidate for Cervical Cages. Journal of Biomechanical Engineering, 2018, 140, .	1.3	11
39	Crossâ€linkable graphene oxide embedded nanocomposite hydrogel with enhanced mechanics and cytocompatibility for tissue engineering. Journal of Biomedical Materials Research - Part A, 2018, 106, 1247-1257.	4.0	10
40	Threeâ€dimensional porous poly(propylene fumarate)â€<i>co</i>â€poly(lacticâ€<i>co</i>â€glycolic acid) scaffolds for tissue engineering. Journal of Biomedical Materials Research - Part A, 2018, 106, 2507-2517.	4.0	8
41	Composite Hydrogel Embedded with Porous Microspheres for Long-Term pH-Sensitive Drug Delivery. Tissue Engineering - Part A, 2019, 25, 172-182.	3.1	8
42	Black phosphorus incorporation modulates nanocomposite hydrogel properties and subsequent <scp>MC3T3</scp> cell attachment, proliferation, and differentiation. Journal of Biomedical Materials Research - Part A, 2021, 109, 1633-1645.	4.0	8
43	Sizeâ€dependent osteogenesis of black phosphorus in nanocomposite hydrogel scaffolds. Journal of Biomedical Materials Research - Part A, 2022, 110, 1488-1498.	4.0	6
44	Injectable pH-responsive adhesive hydrogels for bone tissue engineering inspired by the underwater attachment strategy of marine mussels. Materials Science and Engineering C, 2022, 133, 112606.	7.3	5
45	Spatial and uniform deposition of cell-laden constructs on 3D printed composite phosphorylated hydrogels for improved osteoblast responses. Journal of Materials Science, 2021, 56, 17768-17784.	3.7	4
46	SDF-1Î±/OPF/BP Composites Enhance the Migrating and Osteogenic Abilities of Mesenchymal Stem Cells. Stem Cells International, 2021, 2021, 1-12.	2.5	4
47	Zinc-doped hydroxyapatite and poly(propylene fumarate) nanocomposite scaffold for bone tissue engineering. Journal of Materials Science, 2022, 57, 5998-6012.	3.7	4
48	Tissue Engineering, Cardiovascular: Biodegradable Polymers. , 0, , 7957-7971.		3
49	OPF/PMMA Cage System as an Alternative Approach for the Treatment of Vertebral Corpectomy. Applied Sciences (Switzerland), 2020, 10, 6912.	2.5	1