# Xifeng Liu

## List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/3681052/publications.pdf

Version: 2024-02-01

| | | | |
|---|---|---|---|
| 49 papers | 1,574 citations | 318942 23 h-index | 371746 37 g-index |
| 53 all docs | 53 docs citations | 53 times ranked | 2673 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | 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. | 7.3 | 21 |
| 2 | Sizeâ€dependent osteogenesis of black phosphorus in nanocomposite hydrogel scaffolds. Journal of Biomedical Materials Research - Part A, 2022, 110, 1488-1498. | 2.1 | 6 |
| 3 | Zinc-doped hydroxyapatite and poly(propylene fumarate) nanocomposite scaffold for bone tissue engineering. Journal of Materials Science, 2022, 57, 5998-6012. | 1.7 | 4 |
| 4 | Two-dimensional nanomaterials-added dynamism in 3D printing and bioprinting of biomedical platforms: Unique opportunities and challenges. Biomaterials, 2022, 284, 121507. | 5.7 | 14 |
| 5 | 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. | 3.8 | 5 |
| 6 | Poly(Caprolactone Fumarate) and Oligo[Poly(Ethylene Glycol) Fumarate]: Two Decades of Exploration in Biomedical Applications. Polymer Reviews, 2021, 61, 319-356. | 5.3 | 14 |
| 7 | <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. | 2.1 | 22 |
| 8 | 2D phosphorene nanosheets, quantum dots, nanoribbons: synthesis and biomedical applications. Biomaterials Science, 2021, 9, 2768-2803. | 2.6 | 29 |
| 9 | Mesenchymal stem cell spheroids incorporated with collagen and black phosphorus promote osteogenesis of biodegradable hydrogels. Materials Science and Engineering C, 2021, 121, 111812. | 3.8 | 15 |
| 10 | 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. | 2.1 | 8 |
| 11 | Bifunctional hydrogel for potential vascularized bone tissue regeneration. Materials Science and Engineering C, 2021, 124, 112075. | 3.8 | 13 |
| 12 | 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. | 1.7 | 4 |
| 13 | SDF-1Î±/OPF/BP Composites Enhance the Migrating and Osteogenic Abilities of Mesenchymal Stem Cells. Stem Cells International, 2021, 2021, 1-12. | 1.2 | 4 |
| 14 | Injectable catalyst-free â€œclickâ€•organic-inorganic nanohybrid (click-ON) cement for minimally invasive in vivo bone repair. Biomaterials, 2021, 276, 121014. | 5.7 | 18 |
| 15 | 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. | 2.1 | 33 |
| 16 | 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. | 2.1 | 17 |
| 17 | OPF/PMMA Cage System as an Alternative Approach for the Treatment of Vertebral Corpectomy. Applied Sciences (Switzerland), 2020, 10, 6912. | 1.3 | 1 |
| 18 | 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. | 2.6 | 46 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | 3D-printed scaffolds with carbon nanotubes for bone tissue engineering: Fast and homogeneous one-step functionalization. Acta Biomaterialia, 2020, 111, 129-140. | 4.1 | 69 |
| 20 | 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. | 2.6 | 18 |
| 21 | 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. | 1.9 | 15 |
| 22 | 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. | 4.0 | 101 |
| 23 | Strontiumâ€substituted hydroxyapatite stimulates osteogenesis on poly(propylene fumarate) nanocomposite scaffolds. Journal of Biomedical Materials Research - Part A, 2019, 107, 631-642. | 2.1 | 22 |
| 24 | Effect of Biomaterial Electrical Charge on Bone Morphogenetic Protein-2-Induced In Vivo Bone Formation. Tissue Engineering - Part A, 2019, 25, 1037-1052. | 1.6 | 15 |
| 25 | Composite Hydrogel Embedded with Porous Microspheres for Long-Term pH-Sensitive Drug Delivery. Tissue Engineering - Part A, 2019, 25, 172-182. | 1.6 | 8 |
| 26 | Bone morphogenetic protein-2 release profile modulates bone formation in phosphorylated hydrogel. Journal of Tissue Engineering and Regenerative Medicine, 2018, 12, 1339-1351. | 1.3 | 26 |
| 27 | Fast functionalization of ultrasound microbubbles using strain promoted click chemistry. Biomaterials Science, 2018, 6, 623-632. | 2.6 | 18 |
| 28 | 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. | 2.1 | 10 |
| 29 | Threeâ€dimensional porous poly(propylene fumarate)â€coâ€poly(lacticâ€coâ€glycolic acid) scaffolds for tissue engineering. Journal of Biomedical Materials Research - Part A, 2018, 106, 2507-2517. | 2.1 | 8 |
| 30 | 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. | 5.1 | 87 |
| 31 | Phosphate Functional Groups Improve Oligo[(Polyethylene Glycol) Fumarate] Osteoconduction and BMP-2 Osteoinductive Efficacy. Tissue Engineering - Part A, 2018, 24, 819-829. | 1.6 | 23 |
| 32 | Electrically conductive nanocomposite hydrogels embedded with functionalized carbon nanotubes for spinal cord injury. New Journal of Chemistry, 2018, 42, 17671-17681. | 1.4 | 63 |
| 33 | Poly(Propylene Fumarate)â€“Hydroxyapatite Nanocomposite Can Be a Suitable Candidate for Cervical Cages. Journal of Biomechanical Engineering, 2018, 140, . | 0.6 | 11 |
| 34 | Effective nerve cell modulation by electrical stimulation of carbon nanotube embedded conductive polymeric scaffolds. Biomaterials Science, 2018, 6, 2375-2385. | 2.6 | 73 |
| 35 | Functionalized Carbon Nanotube and Graphene Oxide Embedded Electrically Conductive Hydrogel Synergistically Stimulates Nerve Cell Differentiation. ACS Applied Materials & Interfaces, 2017, 9, 14677-14690. | 4.0 | 179 |
| 36 | A New Vertebral Body Replacement Strategy Using Expandable Polymeric Cages. Tissue Engineering - Part A, 2017, 23, 223-232. | 1.6 | 12 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | 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. | 2.1 | 18 |
| 38 | Covalent crosslinking of graphene oxide and carbon nanotube into hydrogels enhances nerve cell responses. Journal of Materials Chemistry B, 2016, 4, 6930-6941. | 2.9 | 63 |
| 39 | Poly(Îµ-caprolactone) Dendrimer Cross-Linked via Metal-Free Click Chemistry: Injectable Hydrophobic Platform for Tissue Engineering. ACS Macro Letters, 2016, 5, 1261-1265. | 2.3 | 35 |
| 40 | Expansile crosslinked polymersomes for pH sensitive delivery of doxorubicin. Biomaterials Science, 2016, 4, 245-249. | 2.6 | 26 |
| 41 | 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. | 1.7 | 32 |
| 42 | Tunable tissue scaffolds fabricated by in situ crosslink in phase separation system. RSC Advances, 2015, 5, 100824-100833. | 1.7 | 24 |
| 43 | Elastic and thermodynamic properties of Mo2C polymorphs from first principles calculations. Ceramics International, 2015, 41, 5239-5246. | 2.3 | 26 |
| 44 | 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. | 1.7 | 31 |
| 45 | 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. | 1.6 | 29 |
| 46 | 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. | 2.5 | 42 |
| 47 | Hydrolysable core crosslinked particles for receptor-mediated pH-sensitive anticancer drug delivery. New Journal of Chemistry, 2015, 39, 8840-8847. | 1.4 | 12 |
| 48 | Enhanced bone cell functions on poly(Îµ-caprolactone) triacrylate networks grafted with polyhedral oligomeric silsesquioxane nanocages. Polymer, 2014, 55, 3836-3845. | 1.8 | 26 |
| 49 | Tissue Engineering, Cardiovascular: Biodegradable Polymers. , 0, , 7957-7971. | | 3 |