Bipin Gaihre

List of Publications by Year
in descending order

19 papers	483 citations	759233 12 h-index	794594 19 g-index
19 all docs	19 docs citations	19 times ranked	656 citing authors

#	Article	IF	Citations
1	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
2	Fabrication and characterization of carboxymethyl cellulose novel microparticles for bone tissue engineering. Materials Science and Engineering C, 2016, 69, 733-743.	7.3	62
3	Reconstruction of Craniomaxillofacial Bone Defects Using Tissue-Engineering Strategies with Injectable and Non-Injectable Scaffolds. Journal of Functional Biomaterials, 2017, 8, 49.	4.4	53
4	Comparative investigation of porous nano-hydroxyapaptite/chitosan, nano-zirconia/chitosan and novel nano-calcium zirconate/chitosan composite scaffolds for their potential applications in bone regeneration. Materials Science and Engineering C, 2018, 91, 330-339.	7.3	46
5	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
6	2D phosphorene nanosheets, quantum dots, nanoribbons: synthesis and biomedical applications. Biomaterials Science, 2021, 9, 2768-2803.	5.4	29
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.	4.0	22
8	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
9	Thermoresponsive Injectable Microparticleâ€“Gel Composites with Recombinant BMP-9 and VEGF Enhance Bone Formation in Rats. ACS Biomaterials Science and Engineering, 2019, 5, 4587-4600.	5.2	20
10	Injectable nanosilicaâ€“chitosan microparticles for bone regeneration applications. Journal of Biomaterials Applications, 2018, 32, 813-825.	2.4	19
11	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
12	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
13	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
14	Two-dimensional nanomaterials-added dynamism in 3D printing and bioprinting of biomedical platforms: Unique opportunities and challenges. Biomaterials, 2022, 284, 121507.	11.4	14
15	Bifunctional hydrogel for potential vascularized bone tissue regeneration. Materials Science and Engineering C, 2021, 124, 112075.	7.3	13
16	Nano-scale characterization of nano-hydroxyapatite incorporated chitosan particles for bone repair. Colloids and Surfaces B: Biointerfaces, 2018, 165, 158-164.	5.0	12
17	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
18	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

#	Article	IF	Citations
19	Evaluation of the optimal dosage of BMP-9 through the comparison of bone regeneration induced by BMP-9 versus BMP-2 using an injectable microparticle embedded thermosensitive polymeric carrier in a rat cranial defect model. Materials Science and Engineering C, 2021, 127, 112252.	7.3	2