Isha Mutreja

List of Publications by Year
in descending order

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24 papers	674 citations	686830 13 h-index	676716 22 g-index
24 all docs	24 docs citations	24 times ranked	1198 citing authors

#	Article	IF	Citations
1	Hybrid biofabrication of 3D osteoconductive constructs comprising Mg-based nanocomposites and cell-laden bioinks for bone repair. Bone, 2022, 154, 116198.	1.4	25
2	Utilizing a degradation prediction pathway system to understand how a novel methacrylate derivative polymer with flipped external ester groups retains physico-mechanical properties following esterase exposure. Dental Materials, 2022, 38, 251-265.	1.6	3
3	Strontium- and peptide-modified silicate nanostructures for dual osteogenic and antimicrobial activity. , 2022, 135, 212735.		7
4	Biomimetic mineralized hybrid scaffolds with antimicrobial peptides. Bioactive Materials, 2021, 6, 2250-2260.	8.6	36
5	A novel methacrylate derivative polymer that resists bacterial cellâ€mediated biodegradation. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2021, , .	1.6	4
6	Hydrodynamic control of titania nanotube formation on Ti-6Al-4V alloys enhances osteogenic differentiation of human mesenchymal stromal cells. Materials Science and Engineering C, 2020, 109, 110562.	3.8	24
7	Design and characterisation of multi-functional strontium-gelatin nanocomposite bioinks with improved print fidelity and osteogenic capacity. Bioprinting, 2020, 18, e00073.	2.9	60
8	A Novel Dental Polymer with a Flipped External Ester Group Design that Resists Degradation via Polymer Backbone Preservation. ACS Biomaterials Science and Engineering, 2020, 6, 5609-5619.	2.6	5
9	Combined Infection Control and Enhanced Osteogenic Differentiation Capacity on Additive Manufactured Tiâ€6Alâ€4V are Mediated via Titania Nanotube Delivery of Novel Biofilm Inhibitors. Advanced Materials Interfaces, 2020, 7, 1901963.	1.9	19
10	Osteogenic and angiogenic tissue formation in high fidelity nanocomposite Laponite-gelatin bioinks. Biofabrication, 2019, 11, 035027.	3.7	142
11	Biofilm Inhibition via Delivery of Novel Methylthioadenosine Nucleosidase Inhibitors from PVA-Tyramine Hydrogels while Supporting Mesenchymal Stromal Cell Viability. ACS Biomaterials Science and Engineering, 2019, 5, 748-758.	2.6	7
12	Automated 3D bioassembly of micro-tissues for biofabrication of hybrid tissue engineered constructs. Biofabrication, 2018, 10, 024103.	3.7	137
13	Cytotoxicity and cellular uptake of different sized gold nanoparticles in ovarian cancer cells. Nanotechnology, 2017, 28, 475101.	1.3	44
14	Seed mediated synthesis of highly mono-dispersed gold nanoparticles in the presence of hydroquinone. Nanotechnology, 2016, 27, 355601.	1.3	19
15	Organically Modified Silica Nanoparticles Interaction with Macrophage Cells: Assessment of Cell Viability on the Basis of Physicochemical Properties. Journal of Pharmaceutical Sciences, 2015, 104, 3943-3951.	1.6	11
16	Fabrication of free-standing casein devices with micro- and nanostructured regular and bioimprinted surface features. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2015, 33, .	0.6	4
17	The deposition of strontium-substituted hydroxyapatite coatings. Journal of Materials Science: Materials in Medicine, 2015, 26, 65.	1.7	34
18	Positive and negative bioimprinted polymeric substrates: new platforms for cell culture. Biofabrication, 2015, 7, 025002.	3.7	27

#	Article	IF	Citations
19	Enamel proteins mitigate mechanical and structural degradations in mature human enamel during acid attack. Materials Research Express, 2014, 1, 025404.	0.8	20
20	Titania nanotube porosity controls dissolution rate of sputter deposited calcium phosphate (CaP) thin film coatings. RSC Advances, 2013, 3, 11263.	1.7	9
21	The Profile of Payload Release from Gold Nanoparticles Modified with a BODIPYÂ®/PEG Mixed Monolayer. Journal of Nano Research, 2013, 25, 16-30.	0.8	7
22	CONTROLLING THE SIZE AND SIZE DISTRIBUTION OF GOLD NANOPARTICLES: A DESIGN OF EXPERIMENT STUDY. International Journal of Nanoscience, 2012, 11, 1250023.	0.4	27
23	MODULATION OF THE PHYSICOCHEMICAL PROPERTIES OF CHITOSAN NANOPARTICLES FOR OPTIMUM DELIVERY OF PLASMID DNA THROUGH GILL MUCOSA. International Journal of Nanoscience, 2009, 08, 191-195.	0.4	1
24	Methacrylate Polymers With â€œFlipped Externalâ€•Ester Groups: A Review. Frontiers in Dental Medicine, 0, 3, .	0.5	2