Ali Doostmohammadi

List of Publications by Year
in descending order

43 papers	966 citations	567281 15 h-index	454955 30 g-index
43 all docs	43 docs citations	43 times ranked	1375 citing authors

#	Article	IF	Citations
1	Bioactive glass nanoparticles with negative zeta potential. Ceramics International, 2011, 37, 2311-2316.	4.8	132
2	Bioactive glass nanopowder and bioglass coating for biocompatibility improvement of metallic implant. Journal of Materials Processing Technology, 2009, 209, 1385-1391.	6.3	118
3	New Approach to Bone Tissue Engineering: Simultaneous Application of Hydroxyapatite and Bioactive Glass Coated on a Poly(<scp>l</scp>-lactic acid) Scaffold. ACS Applied Materials & Interfaces, 2011, 3, 4518-4524.	8.0	106
4	A comparative physico-chemical study of bioactive glass and bone-derived hydroxyapatite. Ceramics International, 2011, 37, 1601-1607.	4.8	51
5	Preparation, chemistry and physical properties of bone-derived hydroxyapatite particles having a negative zeta potential. Materials Chemistry and Physics, 2012, 132, 446-452.	4.0	50
6	Enhanced osteoconductivity of polyethersulphone nanofibres loaded with bioactive glass nanoparticles in <i>inÂvitro</i> and <i>inÂvivo</i> models. Cell Proliferation, 2015, 48, 455-464.	5.3	47
7	The fabrication and characterization of barium titanate/akermanite nano-bio-ceramic with a suitable piezoelectric coefficient for bone defect recovery. Journal of the Mechanical Behavior of Biomedical Materials, 2017, 74, 365-370.	3.1	37
8	Coating of electrospun poly(lacticâ€coâ€glycolic acid) nanofibers with willemite bioceramic: improvement of bone reconstruction in rat model. Cell Biology International, 2014, 38, 1271-1279.	3.0	36
9	In vitro evaluation of diopside/baghdadite bioceramic scaffolds modified by polycaprolactone fumarate polymer coating. Materials Science and Engineering C, 2020, 106, 110176.	7.3	33
10	Rice husk derived bioactive glass-ceramic as a functional bioceramic: Synthesis, characterization and biological testing. Journal of Non-Crystalline Solids, 2015, 427, 54-61.	3.1	30
11	Reinforcement of electrospun poly(Îµâ€caprolactone) scaffold using diopside nanopowder to promote biological and physical properties. Journal of Applied Polymer Science, 2017, 134, .	2.6	25
12	Effect of forsterite nanoparticles on mechanical properties of glass ionomer cements. Ceramics International, 2014, 40, 10743-10748.	4.8	19
13	The influence of polycaporolacton fumarate coating on mechanical properties and in vitro behavior of porous diopside-hardystonite nano-composite scaffold. Journal of the Mechanical Behavior of Biomedical Materials, 2020, 101, 103445.	3.1	19
14	Silver nanowire-embedded PDMS with high electrical conductivity: nanowires synthesis, composite processing and electrical analysis. Materials Today Chemistry, 2021, 21, 100496.	3.5	18
15	Direct cytotoxicity evaluation of 63S bioactive glass and bone-derived hydroxyapatite particles using yeast model and human chondrocyte cells by microcalorimetry. Journal of Materials Science: Materials in Medicine, 2011, 22, 2293-2300.	3.6	16
16	Determination of Crystallite Size in Synthetic and Natural Hydroxyapatite: A Comparison between XRD and TEM Results. Advanced Materials Research, 0, 620, 28-34.	0.3	16
17	Zirconium modified calciumâ€silicateâ€based nanoceramics: An in vivo evaluation in a rabbit tibial defect model. International Journal of Applied Ceramic Technology, 2019, 16, 431-437.	2.1	16
18	Novel Porous Barium Titanate/Nano-bioactive Glass Composite with High Piezoelectric Coefficient for Bone Regeneration Applications. Journal of Materials Engineering and Performance, 2020, 29, 5420-5427.	2.5	15

#	Article	IF	Citations
19	Electrospun Polycaprolactone/Graphene/Baghdadite Composite Nanofibres with Improved Mechanical and Biological Properties. Fibers and Polymers, 2019, 20, 982-990.	2.1	14
20	Investigation of Osteoinductive Effects of Different Compositions of Bioactive Glass Nanoparticles for Bone Tissue Engineering. ASAIO Journal, 2017, 63, 512-517.	1.6	13
21	Baghdadite/Polycaprolactone nanocomposite scaffolds: preparation, characterisation, and in vitro biological responses of human osteoblast-like cells (Saos-2 cell line). Materials Technology, 2020, 35, 421-432.	3.0	12
22	CYTOTOXICITY EVALUATION OF 63S BIOACTIVE GLASS AND BONE-DERIVED HYDROXYAPATITE PARTICLES USING HUMAN BONE-MARROW STEM CELLS. Biomedical Papers of the Medical Faculty of the University Palacký, Olomouc, Czechoslovakia, 2011, 155, 323-326.	0.6	12
23	Hardystoniteâ€Coated Poly(<scp>l</scp>â€lactide) Nanofibrous Scaffold and Efficient Osteogenic Differentiation of Adiposeâ€Derived Mesenchymal Stem Cells. Artificial Organs, 2018, 42, E335-E348.	1.9	11
24	Preparation, Physicochemical Characterization, and Bioactivity Evaluation of Strontium-Containing Glass Ionomer Cement. , 2013, 2013, 1-7.		10
25	Fabrication, characterization and examination of <i>in vitro</i> of baghdadite nanoparticles for biomedical applications. Materials Research Express, 2019, 6, 095411.	1.6	10
26	Conventional and microfluidic methods for airborne virus isolation and detection. Colloids and Surfaces B: Biointerfaces, 2021, 206, 111962.	5.0	10
27	Nanopore sensors for viral particle quantification: current progress and future prospects. Bioengineered, 2021, 12, 9189-9215.	3.2	10
28	Poly (Vinyl Alcohol)/Chitosan/Akermanite Nanofibrous Scaffolds Prepared by Electrospinning. Journal of Macromolecular Science - Physics, 2019, 58, 749-759.	1.0	9
29	Molecularly imprinted polymer (MIP) based core-shell microspheres for bacteria isolation. Polymer, 2022, 251, 124917.	3.8	9
30	Synthesis of nanostructured hardystonite (HT) bioceramic coated on titanium alloy (Ti-6Al-4V) substrate and assessment of its corrosion behavior, bioactivity and cytotoxicity. Applied Physics A: Materials Science and Processing, 2021, 127, 1.	2.3	8
31	Improvement of biological and corrosion behavior of 316 L stainless steel using PDMS-Ag doped Willemite nanocomposite coating. Progress in Organic Coatings, 2022, 165, 106733.	3.9	8
32	The combined effects of three-dimensional cell culture and natural tissue extract on neural differentiation of P19 embryonal carcinoma stem cells. Journal of Tissue Engineering and Regenerative Medicine, 2018, 12, 1909-1924.	2.7	7
33	Improvement in mechanical and biological performance of porous baghdadite scaffold by applying chitosan coating. Applied Physics A: Materials Science and Processing, 2021, 127, 1.	2.3	7
34	Poly(dimethylsiloxane)/Cu/Ag nanocomposites: Electrical, thermal, and mechanical properties. Polymer Composites, 2019, 40, 4093-4101.	4.6	6
35	<i>In vitro</i> bioactivity of baghdadite-coated PCL â€“graphene nanocomposite scaffolds: mechanism of baghdadite and apatite formation. Materials Technology, 2021, 36, 761-770.	3.0	6
36	Mechanical behaviour, hybridisation and osteoblast activities of novel baghdadite/ PCL-graphene nanocomposite scaffold: viability, cytotoxicity and calcium activity. Materials Technology, 2022, 37, 472-485.	3.0	6

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37	Integration of microfluidic sample preparation with PCR detection to investigate the effects of simultaneous DNA-Inhibitor separation and DNA solution exchange. Analytica Chimica Acta, 2021, 1160, 338449.	5.4	5
38	Highly conductive multi-walled carbon nanotube/polydimethylsiloxane (MWCNT/PDMS) nanocomposite for microfluidic applications. Journal of Composite Materials, 2021, 55, 1799-1810.	2.4	3
39	Plasma electrolytic oxidation (PEO) coating to enhance in vitro corrosion resistance of AZ91 magnesium alloy coated with polydimethylsiloxane (PDMS). Applied Physics A: Materials Science and Processing, 2022, 128, 1.	2.3	3
40	Biocompatibility evaluation of bioglass nanoparticles to chondrocyte cells by isothermal microcalorimetry. , 2010, , .		1
41	A Short Study on the Experimental Glass-Ionomer Cement Containing P2O5. Phosphorus, Sulfur and Silicon and the Related Elements, 2014, 189, 74-80.	1.6	1
42	Effect of Microstructure on Hydrogen Embrittlement and Mechanical Properties of NiTi Biomaterials. Physics of Metals and Metallography, 2019, 120, 740-749.	1.0	1
43	Investigation of adding fluoroapatite nanoparticles on compressive strength and corrosion behaviour of dental amalgams. Processing and Application of Ceramics, 2012, 6, 193-199.	0.8	0