Farnaz Ghorbani

List of Publications by Year
in descending order

43 papers	1,053 citations	361413 20 h-index	454955 30 g-index
44 all docs	44 docs citations	44 times ranked	1130 citing authors

#	Article	IF	Citations
1	A critical review on three dimensional-printed chitosan hydrogels for development of tissue engineering. Bioprinting, 2020, 17, e00063.	5.8	84
2	A facile method to synthesize mussel-inspired polydopamine nanospheres as an active template for in situ formation of biomimetic hydroxyapatite. Materials Science and Engineering C, 2019, 94, 729-739.	7.3	68
3	Physicochemical and mechanical properties of freeze cast hydroxyapatite-gelatin scaffolds with dexamethasone loaded PLGA microspheres for hard tissue engineering applications. Materials Science and Engineering C, 2016, 69, 208-220.	7.3	65
4	The Tunable Porous Structure of Gelatinâ€“Bioglass Nanocomposite Scaffolds for Bone Tissue Engineering Applications: Physicochemical, Mechanical, and In Vitro Properties. Macromolecular Materials and Engineering, 2018, 303, 1700539.	3.6	54
5	Effects of pore orientation on in-vitro properties of retinoic acid-loaded PLGA/gelatin scaffolds for artificial peripheral nerve application. Materials Science and Engineering C, 2017, 77, 159-172.	7.3	47
6	Schisandrin A restrains osteoclastogenesis by inhibiting reactive oxygen species and activating Nrf2 signalling. Cell Proliferation, 2020, 53, e12882.	5.3	46
7	3D printing of acellular scaffolds for bone defect regeneration: A review. Materials Today Communications, 2020, 22, 100979.	1.9	46
8	Protein-Based Hydrogels: Promising Materials for Tissue Engineering. Polymers, 2022, 14, 986.	4.5	41
9	Bone-like hydroxyapatite mineralization on the bio-inspired PDA nanoparticles using microwave irradiation. Surfaces and Interfaces, 2019, 15, 38-42.	3.0	38
10	Tuning the biomimetic behavior of hybrid scaffolds for bone tissue engineering through surface modifications and drug immobilization. Materials Science and Engineering C, 2021, 130, 112434.	7.3	38
11	Bioinspired polydopamine coatingâ€assisted electrospun polyurethaneâ€graphene oxide nanofibers for bone tissue engineering application. Journal of Applied Polymer Science, 2019, 136, 47656.	2.6	34
12	A novel pathway for <i>in situ</i> synthesis of modified gelatin microspheres by silane coupling agents as a bioactive platform. Journal of Applied Polymer Science, 2018, 135, 46739.	2.6	33
13	Microwave-induced rapid formation of biomimetic hydroxyapatite coating on gelatin-siloxane hybrid microspheres in 10X-SBF solution. E-Polymers, 2018, 18, 247-255.	3.0	28
14	Fabrication and characterisation of superâ€paramagnetic responsive PLGAâ€“gelatineâ€“magnetite scaffolds with the unidirectional porous structure: a physicochemical, mechanical, and <i>in vitro</i> evaluation. IET Nanobiotechnology, 2019, 13, 860-867.	3.8	28
15	Bi-layered electrospun nanofibrous polyurethane-gelatin scaffold with targeted heparin release profiles for tissue engineering applications. Journal of Polymer Engineering, 2017, 37, 933-941.	1.4	26
16	Novel bioactive porous starchâ€“siloxane matrix for bone regeneration: Physicochemical, mechanical, and <i>in vitro</i> properties. Biotechnology and Applied Biochemistry, 2019, 66, 43-52.	3.1	26
17	Bioactive and biostable hyaluronic acid-pullulan dermal hydrogels incorporated with biomimetic hydroxyapatite spheres. Materials Science and Engineering C, 2020, 112, 110906.	7.3	25
18	Oxygen-plasma treatment-induced surface engineering of biomimetic polyurethane nanofibrous scaffolds for gelatin-heparin immobilization. E-Polymers, 2018, 18, 275-285.	3.0	24

#	Article	IF	Citations
19	Mussel-inspired polydopamine-mediated surface modification of freeze-cast poly (Îµ-caprolactone) scaffolds for bone tissue engineering applications. Biomedizinische Technik, 2020, 65, 273-287.	0.8	24
20	Decoration of electrical conductive polyurethaneâ€polyaniline/polyvinyl alcohol matrixes with musselâ€inspired polydopamine for bone tissue engineering. Biotechnology Progress, 2020, 36, e3043.	2.6	24
21	Synergistic effects of retinoic acid and graphene oxide on the physicochemical and in-vitro properties of electrospun polyurethane scaffolds for bone tissue engineering. E-Polymers, 2017, 17, 363-371.	3.0	23
22	A bioinspired 3D shape olibanumâ€collagenâ€gelatin scaffolds with tunable porous microstructure for efficient neural tissue regeneration. Biotechnology Progress, 2020, 36, e2918.	2.6	21
23	Immobilization of gelatin on the oxygen plasma-modified surface of polycaprolactone scaffolds with tunable pore structure for skin tissue engineering. Journal of Polymer Research, 2020, 27, 1.	2.4	20
24	Conductive electrospun polyurethane-polyaniline scaffolds coated with poly(vinyl alcohol)-GPTMS under oxygen plasma surface modification. Materials Today Communications, 2020, 22, 100752.	1.9	19
25	Musselâ€inspired polydopamine induced the osteoinductivity to iceâ€templating PLGAâ€“gelatin matrix for bone tissue engineering application. Biotechnology and Applied Biochemistry, 2021, 68, 185-196.	3.1	19
26	Synthesis, Physico-chemical Characteristics And Cellular Behavior Of Poly (lactic-co-glycolic Acid)/ Gelatin Nanofibrous Scaffolds For Engineering Soft Connective Tissues. Advanced Materials Letters, 2016, 7, 163-169.	0.6	18
27	Surface Functionalization of Three Dimensional-Printed Polycaprolactone-Bioactive Glass Scaffolds by Grafting GelMA Under UV Irradiation. Frontiers in Materials, 2020, 7, .	2.4	14
28	Bioprinting a cellâ€laden matrix for bone regeneration: A focused review. Journal of Applied Polymer Science, 2021, 138, 49888.	2.6	14
29	Polydopamine nanospheres coated with bovine serum albumin permit enhanced cell differentiation: fundamental mechanism and practical application for protein coating formation. Nanoscale, 2021, 13, 20098-20110.	5.6	14
30	Bioactive Inks Development for Osteochondral Tissue Engineering: A Mini-Review. Gels, 2021, 7, 274.	4.5	14
31	Morphological Comparison of PLGA/Gelatin Scaffolds Produced by Freeze Casting and Freeze Drying Methods. Applied Mechanics and Materials, 0, 467, 108-111.	0.2	12
32	The effect of oxygen plasma pretreatment on the properties of mussel-inspired polydopamine-decorated polyurethane nanofibers. Journal of Polymer Engineering, 2020, 40, 109-119.	1.4	11
33	Immobilization of polyvinyl alcoholâ€siloxane on the oxygen plasmaâ€modified polyurethaneâ€carbon nanotube composite matrix. Journal of Applied Polymer Science, 2020, 137, 48477.	2.6	9
34	Effect of Silane-Coupling Modification on the Performance of chitosan-poly vinyl Alcohol-Hybrid Scaffolds in Bone Tissue Engineering. Silicon, 2020, 12, 3015-3026.	3.3	9
35	Plasma surface modification techniqueâ€“induced gelatin grafting on bio-originated polyurethane porous matrix: Physicochemical and in vitro study. Polymers and Polymer Composites, 2021, 29, 640-651.	1.9	7
36	An efficient functionalization of dexamethasone-loaded polymeric scaffold with [3-(2,3-epoxypropoxy)-propyl]-trimethoxysilane coupling agent for bone regeneration: Synthesis, characterization, and in vitro evaluation. Journal of Bioactive and Compatible Polymers, 2020, 35, 139-159.	2.1	6

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37	A Facile Method to Synthesize 3D Pomegranate-like Polydopamine Microspheres. Frontiers in Bioengineering and Biotechnology, 2021, 9, 737074.	4.1	6
38	Oriented Microstructure in Neural Tissue Engineering: A Review. Journal of Tissue Science & Engineering, 2016, 07, .	0.2	5
39	Determinants of gold nanoparticle interactions with Proteins: Off-Target effect study. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2022, 269, 120736.	3.9	5
40	The Dibenzyl Isoquinoline Alkaloid Berbamine Ameliorates Osteoporosis by Inhibiting Bone Resorption. Frontiers in Endocrinology, 2022, 13, .	3.5	3
41	Physicochemical and biological investigation of oxygen plasma modified electrospun polyurethane scaffolds for connective tissue engineering application. Journal of Polymer Engineering, 2019, 39, 526-533.	1.4	2
42	Physicochemical properties of chitosanâ€"hydroxyapatite matrix incorporated with <i>Ginkgo biloba</i>-loaded PLGA microspheres for tissue engineering applications. Polymers and Polymer Composites, 2020, 28, 320-330.	1.9	2
43	Effects of lamellar microstructure of retinoic acid loaded-matrixes on physicochemical properties, migration, and neural differentiation of P19 embryonic carcinoma cells. Journal of Polymer Engineering, 2020, 40, 647-656.	1.4	1