

Mahmoud Azami

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87 papers	2,250 citations	30 h-index	44 g-index
90 ext. papers	2,642 ext. citations	4 avg, IF	5.07 L-index

#	Paper	IF	Citations
87	Synthesis, characterization and antioxidant activity of a novel electroactive and biodegradable polyurethane for cardiac tissue engineering application. <i>Materials Science and Engineering C</i> , 2014 , 44, 24-37	8.3	101
86	Development of macroporous nanocomposite scaffolds of gelatin/bioactive glass prepared through layer solvent casting combined with lamination technique for bone tissue engineering. <i>Ceramics International</i> , 2010 , 36, 2431-2439	5.1	97
85	Biomimetic formation of apatite on the surface of porous gelatin/bioactive glass nanocomposite scaffolds. <i>Applied Surface Science</i> , 2010 , 257, 1740-1749	6.7	91
84	Preparation of a porous conductive scaffold from aniline pentamer-modified polyurethane/PCL blend for cardiac tissue engineering. <i>Journal of Biomedical Materials Research - Part A</i> , 2015 , 103, 3179-87	5.4	81
83	Preparation of a biomimetic composite scaffold from gelatin/collagen and bioactive glass fibers for bone tissue engineering. <i>Materials Science and Engineering C</i> , 2016 , 59, 533-541	8.3	79
82	The effects of crosslinkers on physical, mechanical, and cytotoxic properties of gelatin sponge prepared via in-situ gas foaming method as a tissue engineering scaffold. <i>Materials Science and Engineering C</i> , 2016 , 63, 1-9	8.3	79
81	Bio-hybrid silk fibroin/calcium phosphate/PLGA nanocomposite scaffold to control the delivery of vascular endothelial growth factor. <i>Materials Science and Engineering C</i> , 2014 , 35, 401-10	8.3	76
80	Controllable synthesis and characterization of porous polyvinyl alcohol/hydroxyapatite nanocomposite scaffolds via an in situ colloidal technique. <i>Colloids and Surfaces B: Biointerfaces</i> , 2011 , 84, 310-6	6	76
79	Preparation, characterization and mechanical properties of controlled porous gelatin/hydroxyapatite nanocomposite through layer solvent casting combined with freeze-drying and lamination techniques. <i>Journal of Porous Materials</i> , 2010 , 17, 313-320	2.4	61
78	Synthesis and solubility of calcium fluoride/hydroxy-fluorapatite nanocrystals for dental applications. <i>Ceramics International</i> , 2011 , 37, 2007-2014	5.1	58
77	Characterization of wet-electrospun cellulose acetate based 3-dimensional scaffolds for skin tissue engineering applications: influence of cellulose acetate concentration. <i>Cellulose</i> , 2016 , 23, 3239-3248	5.5	55
76	Differentiation of Wharton's Jelly-Derived Mesenchymal Stem Cells into Motor Neuron-Like Cells on Three-Dimensional Collagen-Grafted Nanofibers. <i>Molecular Neurobiology</i> , 2016 , 53, 2397-408	6.2	55
75	Synthesis and Characterization of a Laminated Hydroxyapatite/Gelatin Nanocomposite Scaffold with Controlled Pore Structure for Bone Tissue Engineering. <i>International Journal of Artificial Organs</i> , 2010 , 33, 86-95	1.9	52
74	Glutaraldehyde crosslinked gelatin/hydroxyapatite nanocomposite scaffold, engineered via compound techniques. <i>Polymer Composites</i> , 2010 , 31, 2112-2120	3	50
73	Collagen-coated nano-electrospun PCL seeded with human endometrial stem cells for skin tissue engineering applications. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2018 , 106, 1578-1586	3.5	49
72	A Porous Hydroxyapatite/Gelatin Nanocomposite Scaffold for Bone Tissue Repair: In Vitro and In Vivo Evaluation. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2012 , 23, 2353-68	3.5	47
71	Fabrication and characterization of highly porous barium titanate based scaffold coated by Gel/HA nanocomposite with high piezoelectric coefficient for bone tissue engineering applications. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2018 , 79, 195-202	4.1	46

70	Fabrication and in vivo evaluation of an osteoblast-conditioned nano-hydroxyapatite/gelatin composite scaffold for bone tissue regeneration. <i>Journal of Biomedical Materials Research - Part A</i> , 2016 , 104, 2001-10	5.4	46
69	Three-dimensional culture of differentiated endometrial stromal cells to oligodendrocyte progenitor cells (OPCs) in fibrin hydrogel. <i>Cell Biology International</i> , 2013 , 37, 1340-9	4.5	45
68	A new approach for pancreatic tissue engineering: human endometrial stem cells encapsulated in fibrin gel can differentiate to pancreatic islet beta-cell. <i>Cell Biology International</i> , 2014 , 38, 1174-82	4.5	44
67	Preparation of fibrin gel scaffolds containing MWCNT/PU nanofibers for neural tissue engineering. <i>Journal of Biomedical Materials Research - Part A</i> , 2019 , 107, 802-814	5.4	44
66	Preparation of a biomimetic nanocomposite scaffold for bone tissue engineering via mineralization of gelatin hydrogel and study of mineral transformation in simulated body fluid. <i>Journal of Biomedical Materials Research - Part A</i> , 2012 , 100, 1347-55	5.4	42
65	Enhancing neuronal growth from human endometrial stem cells derived neuron-like cells in three-dimensional fibrin gel for nerve tissue engineering. <i>Journal of Biomedical Materials Research - Part A</i> , 2014 , 102, 2533-43	5.4	39
64	Fabrication of hydrogel based nanocomposite scaffold containing bioactive glass nanoparticles for myocardial tissue engineering. <i>Materials Science and Engineering C</i> , 2016 , 69, 1137-46	8.3	37
63	Repair of rat critical size calvarial defect using osteoblast-like and umbilical vein endothelial cells seeded in gelatin/hydroxyapatite scaffolds. <i>Journal of Biomedical Materials Research - Part A</i> , 2016 , 104, 1770-8	5.4	36
62	Preparation of Pure PLLA, Pure Chitosan, and PLLA/Chitosan Blend Porous Tissue Engineering Scaffolds by Thermally Induced Phase Separation Method and Evaluation of the Corresponding Mechanical and Biological Properties. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2015 , 64, 675-682	3	35
61	In vitro evaluation of biomimetic nanocomposite scaffold using endometrial stem cell derived osteoblast-like cells. <i>Tissue and Cell</i> , 2013 , 45, 328-37	2.7	35
60	Injectable natural polymer compound for tissue engineering of intervertebral disc: In vitro study. <i>Materials Science and Engineering C</i> , 2017 , 80, 502-508	8.3	33
59	Preparation of laminated poly(ϵ -caprolactone)-gelatin-hydroxyapatite nanocomposite scaffold bioengineered via compound techniques for bone substitution. <i>Biomatter</i> , 2011 , 1, 91-101		33
58	Preparation and characterization of nanocomposite polyelectrolyte membranes based on Nafion [®] ionomer and nanocrystalline hydroxyapatite. <i>Polymer</i> , 2011 , 52, 1286-1296	3.9	33
57	Differentiation of human endometrial stem cells into endothelial-like cells on gelatin/chitosan/bioglass nanofibrous scaffolds. <i>Artificial Cells, Nanomedicine and Biotechnology</i> , 2017 , 45, 163-173	6.1	28
56	Structural and functional changes of silk fibroin scaffold due to hydrolytic degradation. <i>Journal of Applied Polymer Science</i> , 2014 , 131, n/a-n/a	2.9	28
55	Preparation of collagen/polyurethane/knitted silk as a composite scaffold for tendon tissue engineering. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2017 , 231, 652-662	1.7	27
54	Effective parameters on conductivity of mineralized carbon nanofibers: an investigation using artificial neural networks. <i>RSC Advances</i> , 2016 , 6, 111908-111918	3.7	24
53	Cellular activity of Wharton's Jelly-derived mesenchymal stem cells on electrospun fibrous and solvent-cast film scaffolds. <i>Journal of Biomedical Materials Research - Part A</i> , 2016 , 104, 218-26	5.4	24

52	Critical-sized full-thickness skin defect regeneration using ovine small intestinal submucosa with or without mesenchymal stem cells in rat model. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2018 , 106, 2177-2190	3.5	23
51	Synthesis of calcium phosphate-zirconia scaffold and human endometrial adult stem cells for bone tissue engineering. <i>Artificial Cells, Nanomedicine and Biotechnology</i> , 2016 , 44, 66-73	6.1	22
50	Erythropoietin/aloe vera-releasing wet-electrospun polyvinyl alcohol/chitosan sponge-like wound dressing: In vitro and in vivo studies. <i>Journal of Bioactive and Compatible Polymers</i> , 2018 , 33, 269-281	2	22
49	Comparative study of poly(L-lactic acid) scaffolds coated with chitosan nanoparticles prepared via ultrasonication and ionic gelation techniques. <i>Tissue Engineering and Regenerative Medicine</i> , 2016 , 13, 498-506	4.5	22
48	Development of biomimetic gelatin/chitosan/hydroxyapatite nanocomposite via double diffusion method for biomedical applications. <i>International Journal of Materials Research</i> , 2014 , 105, 493-501	0.5	21
47	Effect of laminated hydroxyapatite/gelatin nanocomposite scaffold structure on osteogenesis using unrestricted somatic stem cells in rat. <i>Cell Biology International</i> , 2013 , 37, 1181-9	4.5	21
46	In vitro and in vivo investigations on bone regeneration potential of laminated hydroxyapatite/gelatin nanocomposite scaffold along with DBM. <i>Journal of Nanoparticle Research</i> , 2012 , 14, 1	2.3	21
45	Osteoconductive and electroactive carbon nanofibers/hydroxyapatite nanocomposite tailored for bone tissue engineering: in vitro and in vivo studies. <i>Scientific Reports</i> , 2020 , 10, 14853	4.9	20
44	The single and synergistic effects of montmorillonite and curcumin-loaded chitosan microparticles incorporated onto poly(lactic acid) electrospun film on wound-healing. <i>Journal of Bioactive and Compatible Polymers</i> , 2018 , 33, 239-253	2	20
43	Induction of human umbilical Wharton's jelly-derived mesenchymal stem cells toward motor neuron-like cells. <i>In Vitro Cellular and Developmental Biology - Animal</i> , 2015 , 51, 987-94	2.6	19
42	Characterization of decellularized ovine small intestine submucosal layer as extracellular matrix-based scaffold for tissue engineering. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2018 , 106, 933-944	3.5	18
41	A comparison study on the behavior of human endometrial stem cell-derived osteoblast cells on PLGA/HA nanocomposite scaffolds fabricated by electrospinning and freeze-drying methods. <i>Journal of Orthopaedic Surgery and Research</i> , 2018 , 13, 63	2.8	18
40	Biological evaluation of porous nanocomposite scaffolds based on strontium substituted β -TCP and bioactive glass: An in vitro and in vivo study. <i>Materials Science and Engineering C</i> , 2019 , 105, 110071	8.3	15
39	A silk fibroin/decellularized extract of Wharton's jelly hydrogel intended for cartilage tissue engineering. <i>Progress in Biomaterials</i> , 2019 , 8, 31-42	4.4	15
38	In vitro evaluation of human endometrial stem cell-derived osteoblast-like cells' behavior on gelatin/collagen/bioglass nanofibers' scaffolds. <i>Journal of Biomedical Materials Research - Part A</i> , 2016 , 104, 2210-9	5.4	15
37	Endothelial and Osteoblast Differentiation of Adipose-Derived Mesenchymal Stem Cells Using a Cobalt-Doped CaP/Silk Fibroin Scaffold. <i>ACS Biomaterials Science and Engineering</i> , 2019 , 5, 2134-2146	5.5	13
36	Bone Regeneration in rat using a gelatin/bioactive glass nanocomposite scaffold along with endothelial cells (HUVECs). <i>International Journal of Applied Ceramic Technology</i> , 2018 , 15, 1427-1438	2	13
35	The effect of carrier type on bone regeneration of demineralized bone matrix in vivo. <i>Journal of Craniofacial Surgery</i> , 2013 , 24, 2135-40	1.2	13

34	Synthesis and characterization of a laminated hydroxyapatite/gelatin nanocomposite scaffold with controlled pore structure for bone tissue engineering. <i>International Journal of Artificial Organs</i> , 2010 , 33, 86-95	1.9	13
33	Investigation of Magnesium Incorporation within Gelatin/Calcium Phosphate Nanocomposite Scaffold for Bone Tissue Engineering. <i>International Journal of Applied Ceramic Technology</i> , 2015 , 12, 245-253	2	11
32	Delivery of injectable thermo-sensitive hydrogel releasing nerve growth factor for spinal cord regeneration in rat animal model. <i>Journal of Tissue Viability</i> , 2020 , 29, 359-366	3.2	10
31	Facile synthesis of biphasic calcium phosphate microspheres with engineered surface topography for controlled delivery of drugs and proteins. <i>Colloids and Surfaces B: Biointerfaces</i> , 2017 , 157, 223-232	6	9
30	Scalable and cost-effective generation of osteogenic micro-tissues through the incorporation of inorganic microparticles within mesenchymal stem cell spheroids. <i>Biofabrication</i> , 2019 , 12, 015021	10.5	8
29	Preparation and characterization of 58S bioactive glass based scaffold with Kaempferol-containing Zein coating for bone tissue engineering. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2021 , 109, 1259-1270	3.5	6
28	Tissue-engineered nerve graft using silk-fibroin/polycaprolactone fibrous mats decorated with bioactive cerium oxide nanoparticles. <i>Journal of Biomedical Materials Research - Part A</i> , 2021 , 109, 1588-1599	5.4	6
27	A network analysis of angiogenesis/osteogenesis-related growth factors in bone tissue engineering based on in-vitro and in-vivo data: A systems biology approach. <i>Tissue and Cell</i> , 2021 , 72, 101553	2.7	6
26	Nanocomposite scaffold seeded with mesenchymal stem cells for bone repair. <i>Cell Biology International</i> , 2019 , 43, 1379	4.5	5
25	Preparation of Mineralized Electrospun Fibers as a Biomimetic Nanocomposite. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2014 , 63, 576-582	3	5
24	Calcium Fluoride/Hydroxyfluorapatite Nanocrystals as Novel Biphasic Solid Solution for Tooth Tissue Engineering and Regenerative Dentistry. <i>Key Engineering Materials</i> , 2011 , 493-494, 626-631	0.4	5
23	The cardiac niche role in cardiomyocyte differentiation of rat bone marrow-derived stromal cells: comparison between static and microfluidic cell culture methods. <i>EXCLI Journal</i> , 2018 , 17, 762-774	2.4	5
22	Proanthocyanidin as a crosslinking agent for fibrin, collagen hydrogels and their composites with decellularized Wharton's-jelly-extract for tissue engineering applications. <i>Journal of Bioactive and Compatible Polymers</i> , 2020 , 35, 554-571	2	5
21	Novel Bioactive Poly(Ecaprolactone)-Gelatin-Hydroxyapatite Nanocomposite Scaffolds for Bone Regeneration. <i>Key Engineering Materials</i> , 2011 , 493-494, 909-915	0.4	4
20	Repair of critical size rat calvarial defects using endometrial-derived stem cells embedded within gelatin/apatite nanocomposite scaffold. <i>Stem Cell Discovery</i> , 2013 , 03, 37-43	0.5	4
19	Mineralized Human Amniotic Membrane as a Biomimetic Scaffold for Hard Tissue Engineering Applications. <i>ACS Biomaterials Science and Engineering</i> , 2020 , 6, 6285-6298	5.5	4
18	Application of Platelet Rich Fibrin in Tissue Engineering: Focus on Bone Regeneration. <i>Platelets</i> , 2021 , 32, 183-188	3.6	4
17	New precipitation method for synthesis of nano-fluorapatite. <i>Materials Research Innovations</i> , 2013 , 17, 257-262	1.9	3

16	New Insights into Cartilage Tissue Engineering: Improvement of Tissue-Scaffold Integration to Enhance Cartilage Regeneration.. <i>BioMed Research International</i> , 2022 , 2022, 7638245	3	3
15	Advanced approaches to regenerate spinal cord injury: The development of cell and tissue engineering therapy and combinational treatments.. <i>Biomedicine and Pharmacotherapy</i> , 2021 , 146, 112529	7.5	3
14	A deep insight into the preparation of ceramic bone scaffolds utilizing robocasting technique. <i>Ceramics International</i> , 2021 , 48, 5939-5939	5.1	2
13	Alginate-Based Hydrogel Containing Taurine-Loaded Chitosan Nanoparticles in Biomedical Application. <i>Archives of Neuroscience</i> , 2019 , In Press,	1.2	2
12	Bone Scaffold Biomimetics Based on Gelatin Hydrogel Mineralization. <i>Journal of Biomimetics, Biomaterials, and Tissue Engineering</i> , 2013 , 17, 59-69		1
11	Investigation of Fluorine Incorporation within Gelatin/Calcium Phosphate Nanocomposite Scaffold Prepared through a Diffusion Method. <i>Advanced Composites Letters</i> , 2013 , 22, 096369351302200	1.2	1
10	Regenerative strategies for the consequences of myocardial infarction: Chronological indication and upcoming visions.. <i>Biomedicine and Pharmacotherapy</i> , 2021 , 146, 112584	7.5	1
9	Comparison of Cell Proliferation and Adhesion of Human Osteoblast Differentiated Cells on Electrospun and Freeze-Dried PLGA/Bioglass Scaffolds. <i>Archives of Neuroscience</i> , 2018 , 5,	1.2	1
8	A facile way to synthesize a photocrosslinkable methacrylated chitosan hydrogel for biomedical applications. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2021 , 70, 730-741	3	1
7	An Study on the Most Effective Growth Factors in Retinal Regeneration Utilizing Tissue Engineering Concepts. <i>Journal of Ophthalmic and Vision Research</i> , 2021 , 16, 56-67	1.2	1
6	Identification of regeneration-involved growth factors in cartilage engineering procedure promotes its reconstruction. <i>Regenerative Medicine</i> , 2021 , 16, 719-731	2.5	1
5	Wound closure, angiogenesis and antibacterial behaviors of tetracalcium phosphate/hydroxyethyl cellulose/hyaluronic acid/gelatin composite dermal scaffolds. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2021 , 1-22	3.5	0
4	Fabrication of fibrous poly (ε-caprolactone) nano-fibers containing cerium doped-bioglasses nanoparticles encapsulated collagen. <i>Journal of Applied Polymer Science</i> , 2021 , 138, 51202	2.9	0
3	Fabrication and Characterization of a Three-Dimensional Fibrin Gel Model to Evaluate Anti-Proliferative Effects of Astragalus hamosus Plant Extract on Breast Cancer Cells.. <i>Asian Pacific Journal of Cancer Prevention</i> , 2022 , 23, 731-741	1.7	0
2	Preparation and characterization of highly porous ceramic-based nanocomposite scaffolds with improved mechanical properties using the liquid phase-assisted sintering method. <i>Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications</i> , 2019 , 233, 1854-1865	1.3	
1	Chitosan Scaffold Containing Periostin Enhances Sternum Bone Healing and Decreases Serum Level of TNF-α and IL-6 after Sternotomy in Rat.. <i>Tissue Engineering and Regenerative Medicine</i> , 2022 , 1	4.5	