

Mahmoud Azami

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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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 | 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 |
| 86 | 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 | |
| 85 | 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 |
| 84 | 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 |
| 83 | A deep insight into the preparation of ceramic bone scaffolds utilizing robocasting technique. <i>Ceramics International</i> , 2021 , 48, 5939-5939 | 5.1 | 2 |
| 82 | Regenerative strategies for the consequences of myocardial infarction: Chronological indication and upcoming visions.. <i>Biomedicine and Pharmacotherapy</i> , 2021 , 146, 112584 | 7.5 | 1 |
| 81 | 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 |
| 80 | 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 |
| 79 | Fabrication of fibrous poly (e-caprolactone) nano-fibers containing cerium doped-bioglasses nanoparticles encapsulated collagen. <i>Journal of Applied Polymer Science</i> , 2021 , 138, 51202 | 2.9 | 0 |
| 78 | 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 |
| 77 | 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 |
| 76 | Application of Platelet Rich Fibrin in Tissue Engineering: Focus on Bone Regeneration. <i>Platelets</i> , 2021 , 32, 183-188 | 3.6 | 4 |
| 75 | 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 |
| 74 | Identification of regeneration-involved growth factors in cartilage engineering procedure promotes its reconstruction. <i>Regenerative Medicine</i> , 2021 , 16, 719-731 | 2.5 | 1 |
| 73 | 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 |
| 72 | 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 |
| 71 | 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 |

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| 70 | 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 |
| 69 | 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 |
| 68 | 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 |
| 67 | 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 |
| 66 | 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 |
| 65 | Nanocomposite scaffold seeded with mesenchymal stem cells for bone repair. <i>Cell Biology International</i> , 2019 , 43, 1379 | 4.5 | 5 |
| 64 | 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 | |
| 63 | Alginate-Based Hydrogel Containing Taurine-Loaded Chitosan Nanoparticles in Biomedical Application. <i>Archives of Neuroscience</i> , 2019 , In Press, | 1.2 | 2 |
| 62 | 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 |
| 61 | 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 |
| 60 | 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 |
| 59 | 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 |
| 58 | 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 |
| 57 | 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 |
| 56 | 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 |
| 55 | 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 |
| 54 | 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 |
| 53 | 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 |

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| 52 | 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 |
| 51 | 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 |
| 50 | 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 |
| 49 | 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 |
| 48 | 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 |
| 47 | 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 |
| 46 | 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 |
| 45 | 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 |
| 44 | 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 |
| 43 | 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 |
| 42 | 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 |
| 41 | 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 |
| 40 | 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 |
| 39 | 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 |
| 38 | 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 |
| 37 | 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 |
| 36 | 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 |
| 35 | 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 |

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| 34 | 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 |
| 33 | 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 |
| 32 | 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 |
| 31 | 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 |
| 30 | 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 |
| 29 | 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 |
| 28 | 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 |
| 27 | 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 |
| 26 | 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 |
| 25 | 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 |
| 24 | 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 |
| 23 | 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 |
| 22 | 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 |
| 21 | 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 |
| 20 | Bone Scaffold Biomimetics Based on Gelatin Hydrogel Mineralization. <i>Journal of Biomimetics, Biomaterials, and Tissue Engineering</i> , 2013 , 17, 59-69 | | 1 |
| 19 | 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 |
| 18 | New precipitation method for synthesis of nano-fluorapatite. <i>Materials Research Innovations</i> , 2013 , 17, 257-262 | 1.9 | 3 |
| 17 | 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 |

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| 16 | 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 |
| 15 | 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 |
| 14 | 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 |
| 13 | 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 |
| 12 | Synthesis and solubility of calcium fluoride/hydroxy-fluorapatite nanocrystals for dental applications. <i>Ceramics International</i> , 2011 , 37, 2007-2014 | 5.1 | 58 |
| 11 | Novel Bioactive Poly(ϵ -caprolactone)-Gelatin-Hydroxyapatite Nanocomposite Scaffolds for Bone Regeneration. <i>Key Engineering Materials</i> , 2011 , 493-494, 909-915 | 0.4 | 4 |
| 10 | 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 |
| 9 | 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 |
| 8 | Preparation and characterization of nanocomposite polyelectrolyte membranes based on Nafion [®] ionomer and nanocrystalline hydroxyapatite. <i>Polymer</i> , 2011 , 52, 1286-1296 | 3.9 | 33 |
| 7 | 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 |
| 6 | 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 |
| 5 | 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 |
| 4 | 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 |
| 3 | 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 |
| 2 | Glutaraldehyde crosslinked gelatin/hydroxyapatite nanocomposite scaffold, engineered via compound techniques. <i>Polymer Composites</i> , 2010 , 31, 2112-2120 | 3 | 50 |
| 1 | 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 |