Alireza Moshaverinia

List of Publications by Citations

76 papers	2,527 citations	28 h-index	49 g-index
80 ext. papers	3,086 ext. citations	8.2 avg, IF	5.04 L-index

#	Paper	IF	Citations
76	Effects of incorporation of hydroxyapatite and fluoroapatite nanobioceramics into conventional glass ionomer cements (GIC). *Acta Biomaterialia*, **2008**, 4, 432-40	10.8	181
75	Revisiting structure-property relationship of pH-responsive polymers for drug delivery applications. *Journal of Controlled Release*, **2017**, 253, 46-63	11.7	168
74	MSC Transplantation Improves Osteopenia via Epigenetic Regulation of Notch Signaling in Lupus. *Cell Metabolism*, **2015**, 22, 606-18	24.6	147
73	Modification of conventional glass-ionomer cements with N-vinylpyrrolidone containing polyacids, nano-hydroxy and fluoroapatite to improve mechanical properties. *Dental Materials*, **2008**, 24, 1381-90	5.7	112
72	A Multifunctional Polymeric Periodontal Membrane with Osteogenic and Antibacterial Characteristics. *Advanced Functional Materials*, **2018**, 28, 1703437	15.6	111
71	Co-encapsulation of anti-BMP2 monoclonal antibody and mesenchymal stem cells in alginate microspheres for bone tissue engineering. *Biomaterials*, **2013**, 34, 6572-9	15.6	108
70	Pluronic F-127 hydrogel as a promising scaffold for encapsulation of dental-derived mesenchymal stem cells. *Journal of Materials Science: Materials in Medicine*, **2015**, 26, 153	4.5	97
69	Alginate hydrogel as a promising scaffold for dental-derived stem cells: an in vitro study. *Journal of Materials Science: Materials in Medicine*, **2012**, 23, 3041-51	4.5	97
68	Application of stem cells derived from the periodontal ligament or gingival tissue sources for tendon tissue regeneration. *Biomaterials*, **2014**, 35, 2642-50	15.6	87
67	Dental mesenchymal stem cells encapsulated in an alginate hydrogel co-delivery microencapsulation system for cartilage regeneration. *Acta Biomaterialia*, **2013**, 9, 9343-50	10.8	80
66	Bone regeneration potential of stem cells derived from periodontal ligament or gingival tissue sources encapsulated in RGD-modified alginate scaffold. *Tissue Engineering - Part A*, **2014**, 20, 611-21	3.9	80
65	An engineered cell-laden adhesive hydrogel promotes craniofacial bone tissue regeneration in rats. *Science Translational Medicine*, **2020**, 12,	17.5	79
64	A review of powder modifications in conventional glass-ionomer dental cements. *Journal of Materials Chemistry*, **2011**, 21, 1319-1328		62
63	Nanostructured Fibrous Membranes with Rose Spike-Like Architecture. *Nano Letters*, **2017**, 17, 6235-6240	11.5	60
62	Mesenchymal stem cell transplantation in tight-skin mice identifies miR-151-5p as a therapeutic target for systemic sclerosis. *Cell Research*, **2017**, 27, 559-577	24.7	59
61	mTOR inhibition rescues osteopenia in mice with systemic sclerosis. *Journal of Experimental Medicine*, **2015**, 212, 73-91	16.6	58
60	Encapsulated dental-derived mesenchymal stem cells in an injectable and biodegradable scaffold for applications in bone tissue engineering. *Journal of Biomedical Materials Research - Part A*, **2013**, 101, 3285-94	5.4	55

59	Hierarchically Patterned Polydopamine-Containing Membranes for Periodontal Tissue Engineering. *ACS Nano*, **2019**, 13, 3830-3838	16.7	52
58	Muscle Tissue Engineering Using Gingival Mesenchymal Stem Cells Encapsulated in Alginate Hydrogels Containing Multiple Growth Factors. *Annals of Biomedical Engineering*, **2016**, 44, 1908-20	4.7	51
57	Regulation of the Stem Cell-Host Immune System Interplay Using Hydrogel Coencapsulation System with an Anti-Inflammatory Drug. *Advanced Functional Materials*, **2015**, 25, 2296-2307	15.6	51
56	Synthesis and characterization of a novel N-vinylcaprolactam-containing acrylic acid terpolymer for applications in glass-ionomer dental cements. *Acta Biomaterialia*, **2009**, 5, 2101-8	10.8	49
55	Human Periodontal Ligament- and Gingiva-derived Mesenchymal Stem Cells Promote Nerve Regeneration When Encapsulated in Alginate/Hyaluronic Acid 3D Scaffold. *Advanced Healthcare Materials*, **2017**, 6, 1700670	10.1	44
54	Alginate/hyaluronic acid hydrogel delivery system characteristics regulate the differentiation of periodontal ligament stem cells toward chondrogenic lineage. *Journal of Materials Science: Materials in Medicine*, **2017**, 28, 162	4.5	35
53	Polyserotonin Nanoparticles as Multifunctional Materials for Biomedical Applications. *ACS Nano*, **2018**, 12, 4761-4774	16.7	33
52	Hydrogel elasticity and microarchitecture regulate dental-derived mesenchymal stem cell-host immune system cross-talk. *Acta Biomaterialia*, **2017**, 60, 181-189	10.8	33
51	A review of polyelectrolyte modifications in conventional glass-ionomer dental cements. *Journal of Materials Chemistry*, **2012**, 22, 2824		29
50	Gingival Mesenchymal Stem Cell (GMSC) Delivery System Based on RGD-Coupled Alginate Hydrogel with Antimicrobial Properties: A Novel Treatment Modality for Peri-Implantitis. *Journal of Prosthodontics*, **2016**, 25, 105-15	3.9	29
49	Functionalization of scaffolds with chimeric anti-BMP-2 monoclonal antibodies for osseous regeneration. *Biomaterials*, **2013**, 34, 10191-8	15.6	28
48	Regulation of the fate of dental-derived mesenchymal stem cells using engineered alginate-GelMA hydrogels. *Journal of Biomedical Materials Research - Part A*, **2017**, 105, 2957-2967	5.4	28
47	Measure of microhardness, fracture toughness and flexural strength of N-vinylcaprolactam (NVC)-containing glass-ionomer dental cements. *Dental Materials*, **2010**, 26, 1137-43	5.7	25
46	Synthesis and characterization of a novel fast-set proline-derivative-containing glass ionomer cement with enhanced mechanical properties. *Acta Biomaterialia*, **2009**, 5, 498-507	10.8	22
45	Dental and orofacial mesenchymal stem cells in craniofacial regeneration: The prosthodontist's point of view. *Journal of Prosthetic Dentistry*, **2017**, 118, 455-461	4	18
44	In situ bone tissue engineering using gene delivery nanocomplexes. *Acta Biomaterialia*, **2020**, 108, 326-336	10.8	18
43	Effects of N-vinylpyrrolidone (NVP) containing polyelectrolytes on surface properties of conventional glass-ionomer cements (GIC). *Dental Materials*, **2009**, 25, 1240-7	5.7	18
42	Cytokine Secreting Microparticles Engineer the Fate and the Effector Functions of T-Cells. *Advanced Materials*, **2018**, 30, 1703178	24	17

41	Effects of incorporation of nano-fluorapatite particles on microhardness, fluoride releasing properties, and biocompatibility of a conventional glass ionomer cement (GIC). *Dental Materials Journal*, **2016**, 35, 817-821	2.5	17
40	Effect of different thermo-light polymerization on flexural strength of two glass ionomer cements and a glass carbomer cement. *Journal of Prosthetic Dentistry*, **2017**, 118, 102-107	4	16
39	Mechanobiological Mimicry of Helper T Lymphocytes to Evaluate Cell-Biomaterials Crosstalk. *Advanced Materials*, **2018**, 30, e1706780	24	16
38	Comparative evaluation of the physical properties of a reinforced glass ionomer dental restorative material. *Journal of Prosthetic Dentistry*, **2019**, 122, 154-159	4	16
37	Implant-abutment interface: a comparison of the ultimate force to failure among narrow-diameter implant systems. *Journal of Prosthetic Dentistry*, **2014**, 112, 136-42	4	16
36	Development of bacterially resistant polyurethane for coating medical devices. *Biomedical Materials (Bristol)*, **2012**, 7, 015007	3.5	16
35	Comparison of dimensional accuracy of conventionally and digitally manufactured intracoronal restorations. *Journal of Prosthetic Dentistry*, **2018**, 119, 233-238	4	14
34	A technique for retrieving fractured implant screws. *Journal of Prosthetic Dentistry*, **2014**, 111, 81-3	4	14
33	Effect of laser-dimpled titanium surfaces on attachment of epithelial-like cells and fibroblasts. *Journal of Advanced Prosthodontics*, **2015**, 7, 138-45	2.2	14
32	Synthesis of N-vinylpyrrolidone modified acrylic acid copolymer in supercritical fluids and its application in dental glass-ionomer cements. *Journal of Materials Science: Materials in Medicine*, **2008**, 19, 2705-11	4.5	14
31	Nanoscale Optoregulation of Neural Stem Cell Differentiation by Intracellular Alteration of Redox Balance. *Advanced Functional Materials*, **2017**, 27, 1701420	15.6	13
30	Surface properties and bond strength measurements of N-vinylcaprolactam (NVC)-containing glass-ionomer cements. *Journal of Prosthetic Dentistry*, **2011**, 105, 185-93	4	13
29	Effects of N-vinylcaprolactam containing polyelectrolytes on hardness, fluoride release and water sorption of conventional glass ionomers. *Journal of Prosthetic Dentistry*, **2011**, 105, 323-31	4	10
28	Ultrasonically set novel NVC-containing glass-ionomer cements for applications in restorative dentistry. *Journal of Materials Science: Materials in Medicine*, **2011**, 22, 2029-34	4.5	10
27	Bioactive glass-containing hydrogel delivery system for osteogenic differentiation of human dental pulp stem cells. *Journal of Biomedical Materials Research - Part A*, **2020**, 108, 557-564	5.4	10
26	Effects of the orientation of anti-BMP2 monoclonal antibody immobilized on scaffold in antibody-mediated osseous regeneration. *Journal of Biomaterials Applications*, **2015**, 30, 558-67	2.9	7
25	Minced Pulp as Source of Pulpal Mesenchymal Stem Cells with Odontogenic Differentiation Capacity. *Journal of Endodontics*, **2018**, 44, 80-86	4.7	7
24	RGD-Modified Alginate-GelMA Hydrogel Sheet Containing Gingival Mesenchymal Stem Cells: A Unique Platform for Wound Healing and Soft Tissue Regeneration. *ACS Biomaterials Science and Engineering*, **2021**, 7, 3774-3782	5.5	6

23	Effects of an etching solution on the adhesive properties and surface microhardness of zirconia dental ceramics. *Journal of Prosthetic Dentistry*, **2018**, 120, 447-453	4	5
22	Full mouth rehabilitation of a young patient with partial expressions of ectodermal dysplasia: a clinical report. *Journal of Prosthetic Dentistry*, **2014**, 112, 449-54	4	5
21	Hydrogels in craniofacial tissue engineering **2017**, 47-64		5
20	Review of the Modern Dental Ceramic Restorative Materials for Esthetic Dentistry in the Minimally Invasive Age. *Dental Clinics of North America*, **2020**, 64, 621-631	3.3	5
19	Whitlockite-Enabled Hydrogel for Craniofacial Bone Regeneration. *ACS Applied Materials & Interfaces*, **2021**, 13, 35342-35355	9.5	5
18	Collagen sponge functionalized with chimeric anti-BMP-2 monoclonal antibody mediates repair of nonunion tibia defects in a nonhuman primate model: An exploratory study. *Journal of Biomaterials Applications*, **2017**, 32, 425-432	2.9	4
17	Tissue Regeneration: A Multifunctional Polymeric Periodontal Membrane with Osteogenic and Antibacterial Characteristics (Adv. Funct. Mater. 3/2018). *Advanced Functional Materials*, **2018**, 28, 1870021	15.6	4
16	Biomechanical analysis of engineered bone with anti-BMP2 antibody immobilized on different scaffolds. *Journal of Biomedical Materials Research - Part B Applied Biomaterials*, **2016**, 104, 1465-73	3.5	4
15	A multidisciplinary approach for the rehabilitation of a patient with an excessively worn dentition: a clinical report. *Journal of Prosthetic Dentistry*, **2014**, 111, 259-63	4	4
14	Effects of setting under air pressure on the number of surface pores and irregularities of dental investment materials. *Journal of Prosthetic Dentistry*, **2014**, 111, 150-3	4	4
13	Collagen Sponge Functionalized with Chimeric Anti-BMP-2 Monoclonal Antibody Mediates Repair of Critical-Size Mandibular Continuity Defects in a Nonhuman Primate Model. *BioMed Research International*, **2017**, 2017, 8094152	3	4
12	Click Chemistry: A Potential Platform for Development of Novel Dental Restorative Materials. *Journal of Macromolecular Science - Pure and Applied Chemistry*, **2012**, 49, 288-292	2.2	4
11	Immunomodulatory Microneedle Patch for Periodontal Tissue Regeneration.. *Matter*, **2022**, 5, 666-682	12.7	4
10	Microenvironment Can Induce Development of Auditory Progenitor Cells from Human Gingival Mesenchymal Stem Cells. *ACS Biomaterials Science and Engineering*, **2020**, 6, 2263-2273	5.5	3
9	Mandibular implant-supported fixed dental prosthesis with a modified design: a clinical report. *Journal of Prosthetic Dentistry*, **2014**, 111, 91-5	4	3
8	Engineered Delivery of Dental Stem Cell-Derived Extracellular Vesicles for Periodontal Tissue Regeneration.. *Advanced Healthcare Materials*, **2022**, e2102593	10.1	3
7	Biofilms in restorative dentistry: A clinical report. *Journal of Prosthetic Dentistry*, **2015**, 113, 524-7	4	2
6	New Engineered Fusion Peptide with Dual Functionality: Antibacterial and Strong Binding to Hydroxyapatite. *International Journal of Peptide Research and Therapeutics*, **2020**, 26, 1629-1639	2.1	1

5	Synthesis and characterization of a photo-cross-linked bioactive polycaprolactone-based osteoconductive biocomposite. *Journal of Biomedical Materials Research - Part A*, **2021**, 109, 1858-1868	5.4	1
4	A narrative overview of utilizing biomaterials to recapitulate the salient regenerative features of dental-derived mesenchymal stem cells. *International Journal of Oral Science*, **2021**, 13, 22	27.9	1
3	Influence of Dental Pulp Harvesting Method on the Viability and Differentiation Capacity of Adult Dental Pulp-Derived Mesenchymal Stem Cells. *Stem Cells International*, **2021**, 2021, 9952401	5	1
2	A multifunctional fusion peptide for tethering to hydroxyapatite and selective capture of bone morphogenetic protein from extracellular milieu. *Journal of Biomedical Materials Research - Part A*, **2020**, 108, 1459-1466	5.4	
1	CAD-CAM acrylic resin prosthesis superstructure: A technique for fabricating an implant-supported fixed complete denture. *Journal of Prosthetic Dentistry*, **2019**, 121, 378-380	4	