Alireza Moshaverinia

List of Publications by Year
in descending order

76 papers	3,628 citations	159525 30 h-index	138417 58 g-index
80 all docs	80 docs citations	80 times ranked	5299 citing authors

#	Article	IF	Citations
1	Effects of incorporation of hydroxyapatite and fluoroapatite nanobioceramics into conventional glass ionomer cements (GIC). Acta Biomaterialia, 2008, 4, 432-440.	4.1	241
2	Revisiting structure-property relationship of pH-responsive polymers for drug delivery applications. Journal of Controlled Release, 2017, 253, 46-63.	4.8	231
3	An engineered cell-laden adhesive hydrogel promotes craniofacial bone tissue regeneration in rats. Science Translational Medicine, 2020, 12, .	5.8	199
4	MSC Transplantation Improves Osteopenia via Epigenetic Regulation of Notch Signaling in Lupus. Cell Metabolism, 2015, 22, 606-618.	7.2	195
5	A Multifunctional Polymeric Periodontal Membrane with Osteogenic and Antibacterial Characteristics. Advanced Functional Materials, 2018, 28, 1703437.	7.8	152
6	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.	1.7	146
7	Modification of conventional glass-ionomer cements with N-vinylpyrrolidone containing polyacids, nano-hydroxy and fluoroapatite to improve mechanical properties. Dental Materials, 2008, 24, 1381-1390.	1.6	142
8	Co-encapsulation of anti-BMP2 monoclonal antibody and mesenchymal stem cells in alginate microspheres for bone tissue engineering. Biomaterials, 2013, 34, 6572-6579.	5.7	121
9	Alginate hydrogel as a promising scaffold for dental-derived stem cells: an in vitro study. Journal of Materials Science: Materials in Medicine, 2012, 23, 3041-3051.	1.7	111
10	Application of stem cells derived from the periodontal ligament orÂgingival tissue sources for tendon tissue regeneration. Biomaterials, 2014, 35, 2642-2650.	5.7	111
11	Hierarchically Patterned Polydopamine-Containing Membranes for Periodontal Tissue Engineering. ACS Nano, 2019, 13, 3830-3838.	7.3	105
12	Dental mesenchymal stem cells encapsulated in an alginate hydrogel co-delivery microencapsulation system for cartilage regeneration. Acta Biomaterialia, 2013, 9, 9343-9350.	4.1	96
13	Bone Regeneration Potential of Stem Cells Derived from Periodontal Ligament or Gingival Tissue Sources Encapsulated in RGD-Modified Alginate Scaffold. Tissue Engineering - Part A, 2013, 20, 131106060201007.	1.6	96
14	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.	5.7	89
15	A review of powder modifications in conventional glass-ionomer dental cements. Journal of Materials Chemistry, 2011, 21, 1319-1328.	6.7	81
16	Encapsulated dentalâ€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, 3285-3294.	2.1	80
17	Nanostructured Fibrous Membranes with Rose Spike-Like Architecture. Nano Letters, 2017, 17, 6235-6240.	4.5	72
18	Muscle Tissue Engineering Using Gingival Mesenchymal Stem Cells Encapsulated in Alginate Hydrogels Containing Multiple Growth Factors. Annals of Biomedical Engineering, 2016, 44, 1908-1920.	1.3	71

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19	Gingival Mesenchymal Stem Cell (GMSC) Delivery System Based on RGDâ€Coupled Alginate Hydrogel with Antimicrobial Properties: A Novel Treatment Modality for Periâ€Implantitis. Journal of Prosthodontics, 2016, 25, 105-115.	1.7	69
20	mTOR inhibition rescues osteopenia in mice with systemic sclerosis. Journal of Experimental Medicine, 2015, 212, 73-91.	4.2	67
21	Regulation of the Stem Cellâ€“Host Immune System Interplay Using Hydrogel Coencapsulation System with an Antiâ€Inflammatory Drug. Advanced Functional Materials, 2015, 25, 2296-2307.	7.8	66
22	Human Periodontal Ligamentâ€•and Gingivaâ€derived Mesenchymal Stem Cells Promote Nerve Regeneration When Encapsulated in Alginate/Hyaluronic Acid 3D Scaffold. Advanced Healthcare Materials, 2017, 6, 1700670.	3.9	59
23	Polyserotonin Nanoparticles as Multifunctional Materials for Biomedical Applications. ACS Nano, 2018, 12, 4761-4774.	7.3	57
24	Synthesis and characterization of a novel N-vinylcaprolactam-containing acrylic acid terpolymer for applications in glass-ionomer dental cements. Acta Biomaterialia, 2009, 5, 2101-2108.	4.1	53
25	Hydrogel elasticity and microarchitecture regulate dental-derived mesenchymal stem cell-host immune system cross-talk. Acta Biomaterialia, 2017, 60, 181-189.	4.1	49
26	Immunomodulatory microneedle patch for periodontal tissue regeneration. Matter, 2022, 5, 666-682.	5.0	49
27	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.	1.7	47
28	Regulation of the fate of dentalâ€derived mesenchymal stem cells using engineered alginateâ€GelMA hydrogels. Journal of Biomedical Materials Research - Part A, 2017, 105, 2957-2967.	2.1	47
29	In situ bone tissue engineering using gene delivery nanocomplexes. Acta Biomaterialia, 2020, 108, 326-336.	4.1	41
30	Comparative evaluation of the physical properties of a reinforced glass ionomer dental restorative material. Journal of Prosthetic Dentistry, 2019, 122, 154-159.	1.1	40
31	Functionalization of scaffolds with chimeric anti-BMP-2 monoclonal antibodies for osseous regeneration. Biomaterials, 2013, 34, 10191-10198.	5.7	32
32	A review of polyelectrolyte modifications in conventional glass-ionomer dental cements. Journal of Materials Chemistry, 2012, 22, 2824.	6.7	31
33	Measure of microhardness, fracture toughness and flexural strength of N-vinylcaprolactam (NVC)-containing glass-ionomer dental cements. Dental Materials, 2010, 26, 1137-1143.	1.6	28
34	Dental and orofacial mesenchymal stem cells in craniofacial regeneration: The prosthodontistâ€™s point of view. Journal of Prosthetic Dentistry, 2017, 118, 455-461.	1.1	27
35	RGD-Modified Alginateâ€“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.	2.6	27
36	A technique for retrieving fractured implant screws. Journal of Prosthetic Dentistry, 2014, 111, 81-83.	1.1	26

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37	Cytokine Secreting Microparticles Engineer the Fate and the Effector Functions of Tâ€Cells. Advanced Materials, 2018, 30, 1703178.	11.1	25
38	Comparison of dimensional accuracy of conventionally and digitally manufactured intracoronal restorations. Journal of Prosthetic Dentistry, 2018, 119, 233-238.	1.1	25
39	Synthesis and characterization of a novel fast-set proline-derivative-containing glass ionomer cement with enhanced mechanical properties. Acta Biomaterialia, 2009, 5, 498-507.	4.1	24
40	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.	0.8	24
41	Effects of N-vinylpyrrolidone (NVP) containing polyelectrolytes on surface properties of conventional glass-ionomer cements (GIC). Dental Materials, 2009, 25, 1240-1247.	1.6	23
42	Mechanobiological Mimicry of Helper T Lymphocytes to Evaluate Cellâ€“Biomaterials Crosstalk. Advanced Materials, 2018, 30, e1706780.	11.1	22
43	Effect of different thermoâ€“light polymerization on flexural strength of two glass ionomer cements and a glass carbomerÂcement. Journal of Prosthetic Dentistry, 2017, 118, 102-107.	1.1	21
44	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, 2705-2711.	1.7	20
45	Implant-abutment interface: A comparison of the ultimate force to failure among narrow-diameter implant systems. Journal of Prosthetic Dentistry, 2014, 112, 136-142.	1.1	20
46	Effect of laser-dimpled titanium surfaces on attachment of epithelial-like cells and fibroblasts. Journal of Advanced Prosthodontics, 2015, 7, 138.	1.1	20
47	Bioactive glassâ€containing hydrogel delivery system for osteogenic differentiation of human dental pulp stem cells. Journal of Biomedical Materials Research - Part A, 2020, 108, 557-564.	2.1	20
48	Development of bacterially resistant polyurethane for coating medical devices. Biomedical Materials (Bristol), 2012, 7, 015007.	1.7	19
49	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.	0.8	19
50	Engineered Delivery of Dental Stemâ€Cellâ€Derived Extracellular Vesicles for Periodontal Tissue Regeneration. Advanced Healthcare Materials, 2022, 11, e2102593.	3.9	15
51	Surface properties and bond strength measurements of N-vinylcaprolactam (NVC)-containing glass-ionomer cements. Journal of Prosthetic Dentistry, 2011, 105, 185-193.	1.1	14
52	Nanoscale Optoregulation of Neural Stem Cell Differentiation by Intracellular Alteration of Redox Balance. Advanced Functional Materials, 2017, 27, 1701420.	7.8	14
53	Whitlockite-Enabled Hydrogel for Craniofacial Bone Regeneration. ACS Applied Materials & Interfaces, 2021, 13, 35342-35355.	4.0	13
54	Effects of N-vinylcaprolactam containing polyelectrolytes on hardness, fluoride release and water sorption of conventional glass ionomers. Journal of Prosthetic Dentistry, 2011, 105, 323-331.	1.1	12

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55	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.	3.6	12
56	Ultrasonically set novel NVC-containing glass-ionomer cements for applications in restorative dentistry. Journal of Materials Science: Materials in Medicine, 2011, 22, 2029-2034.	1.7	10
57	Effects of the orientation of anti-BMP2 monoclonal antibody immobilized on scaffold in antibody-mediated osseous regeneration. Journal of Biomaterials Applications, 2015, 30, 558-567.	1.2	9
58	Effects of an etching solution on the adhesive properties and surface microhardness of zirconia dental ceramics. Journal of Prosthetic Dentistry, 2018, 120, 447-453.	1.1	8
59	Minced Pulp as Source of Pulpal Mesenchymal Stem Cells with Odontogenic Differentiation Capacity. Journal of Endodontics, 2018, 44, 80-86.	1.4	8
60	Hydrogels in craniofacial tissue engineering. , 2017, , 47-64.		7
61	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, 1-11.	0.9	7
62	A multidisciplinary approach for the rehabilitation of a patient with an excessively worn dentition: A clinical report. Journal of Prosthetic Dentistry, 2014, 111, 259-263.	1.1	6
63	Tissue Regeneration: A Multifunctional Polymeric Periodontal Membrane with Osteogenic and Antibacterial Characteristics (Adv. Funct. Mater. 3/2018). Advanced Functional Materials, 2018, 28, 1870021.	7.8	6
64	Microenvironment Can Induce Development of Auditory Progenitor Cells from Human Gingival Mesenchymal Stem Cells. ACS Biomaterials Science and Engineering, 2020, 6, 2263-2273.	2.6	6
65	Click Chemistry: A Potential Platform for Development of Novel Dental Restorative Materials. Journal of Macromolecular Science - Pure and Applied Chemistry, 2012, 49, 288-292.	1.2	5
66	Full mouth rehabilitation of a young patient with partial expressions of ectodermal dysplasia: A clinical report. Journal of Prosthetic Dentistry, 2014, 112, 449-454.	1.1	5
67	Biomechanical analysis of engineered bone with antiâ€BMP2 antibody immobilized on different scaffolds. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2016, 104, 1465-1473.	1.6	5
68	Effects of setting under air pressure on the number of surface pores and irregularities of dental investment materials. Journal of Prosthetic Dentistry, 2014, 111, 150-153.	1.1	4
69	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.	1.2	4
70	Mandibular implant-supported fixed dental prosthesis with a modified design: A clinical report. Journal of Prosthetic Dentistry, 2014, 111, 91-95.	1.1	3
71	New Engineered Fusion Peptide with Dual Functionality: Antibacterial and Strong Binding to Hydroxyapatite. International Journal of Peptide Research and Therapeutics, 2020, 26, 1629-1639.	0.9	3
72	Synthesis and characterization of a photoâ€crossâ€linked bioactive polycaprolactoneâ€based osteoconductive biocomposite. Journal of Biomedical Materials Research - Part A, 2021, 109, 1858-1868.	2.1	3

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73	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, 1-8.	1.2	3
74	Biofilms in restorative dentistry: A clinical report. Journal of Prosthetic Dentistry, 2015, 113, 524-527.	1.1	2
75	CAD-CAM acrylic resin prosthesis superstructure: A technique for fabricating an implant-supported fixed complete denture. Journal of Prosthetic Dentistry, 2019, 121, 378-380.	1.1	1
76	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.	2.1	0