

Alireza Moshaverinia

List of Publications by Year in descending order

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Version: 2024-02-01

76
papers

3,628
citations

159585

30
h-index

138484

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). <i>Acta Biomaterialia</i> , 2008, 4, 432-440.	8.3	241
2	Revisiting structure-property relationship of pH-responsive polymers for drug delivery applications. <i>Journal of Controlled Release</i> , 2017, 253, 46-63.	9.9	231
3	An engineered cell-laden adhesive hydrogel promotes craniofacial bone tissue regeneration in rats. <i>Science Translational Medicine</i> , 2020, 12, .	12.4	199
4	MSC Transplantation Improves Osteopenia via Epigenetic Regulation of Notch Signaling in Lupus. <i>Cell Metabolism</i> , 2015, 22, 606-618.	16.2	195
5	A Multifunctional Polymeric Periodontal Membrane with Osteogenic and Antibacterial Characteristics. <i>Advanced Functional Materials</i> , 2018, 28, 1703437.	14.9	152
6	Pluronic F-127 hydrogel as a promising scaffold for encapsulation of dental-derived mesenchymal stem cells. <i>Journal of Materials Science: Materials in Medicine</i> , 2015, 26, 153.	3.6	146
7	Modification of conventional glass-ionomer cements with N-vinylpyrrolidone containing polyacids, nano-hydroxy and fluoroapatite to improve mechanical properties. <i>Dental Materials</i> , 2008, 24, 1381-1390.	3.5	142
8	Co-encapsulation of anti-BMP2 monoclonal antibody and mesenchymal stem cells in alginate microspheres for bone tissue engineering. <i>Biomaterials</i> , 2013, 34, 6572-6579.	11.4	121
9	Alginate hydrogel as a promising scaffold for dental-derived stem cells: an in vitro study. <i>Journal of Materials Science: Materials in Medicine</i> , 2012, 23, 3041-3051.	3.6	111
10	Application of stem cells derived from the periodontal ligament or gingival tissue sources for tendon tissue regeneration. <i>Biomaterials</i> , 2014, 35, 2642-2650.	11.4	111
11	Hierarchically Patterned Polydopamine-Containing Membranes for Periodontal Tissue Engineering. <i>ACS Nano</i> , 2019, 13, 3830-3838.	14.6	105
12	Dental mesenchymal stem cells encapsulated in an alginate hydrogel co-delivery microencapsulation system for cartilage regeneration. <i>Acta Biomaterialia</i> , 2013, 9, 9343-9350.	8.3	96
13	Bone Regeneration Potential of Stem Cells Derived from Periodontal Ligament or Gingival Tissue Sources Encapsulated in RGD-Modified Alginate Scaffold. <i>Tissue Engineering - Part A</i> , 2013, 20, 131106060201007.	3.1	96
14	Mesenchymal stem cell transplantation in tight-skin mice identifies miR-151-5p as a therapeutic target for systemic sclerosis. <i>Cell Research</i> , 2017, 27, 559-577.	12.0	89
15	A review of powder modifications in conventional glass-ionomer dental cements. <i>Journal of Materials Chemistry</i> , 2011, 21, 1319-1328.	6.7	81
16	Encapsulated dental-derived mesenchymal stem cells in an injectable and biodegradable scaffold for applications in bone tissue engineering. <i>Journal of Biomedical Materials Research - Part A</i> , 2013, 101, 3285-3294.	4.0	80
17	Nanostructured Fibrous Membranes with Rose Spike-Like Architecture. <i>Nano Letters</i> , 2017, 17, 6235-6240.	9.1	72
18	Muscle Tissue Engineering Using Gingival Mesenchymal Stem Cells Encapsulated in Alginate Hydrogels Containing Multiple Growth Factors. <i>Annals of Biomedical Engineering</i> , 2016, 44, 1908-1920.	2.5	71

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19	Gingival Mesenchymal Stem Cell (GMSC) Delivery System Based on RGD-Coupled Alginate Hydrogel with Antimicrobial Properties: A Novel Treatment Modality for Peri-Implantitis. <i>Journal of Prosthodontics</i> , 2016, 25, 105-115.	3.7	69
20	mTOR inhibition rescues osteopenia in mice with systemic sclerosis. <i>Journal of Experimental Medicine</i> , 2015, 212, 73-91.	8.5	67
21	Regulation of the Stem Cell-Host Immune System Interplay Using Hydrogel Coencapsulation System with an Anti-inflammatory Drug. <i>Advanced Functional Materials</i> , 2015, 25, 2296-2307.	14.9	66
22	Human Periodontal Ligament- and Gingiva-derived Mesenchymal Stem Cells Promote Nerve Regeneration When Encapsulated in Alginate/Hyaluronic Acid 3D Scaffold. <i>Advanced Healthcare Materials</i> , 2017, 6, 1700670.	7.6	59
23	Polyserotonin Nanoparticles as Multifunctional Materials for Biomedical Applications. <i>ACS Nano</i> , 2018, 12, 4761-4774.	14.6	57
24	Synthesis and characterization of a novel N-vinylcaprolactam-containing acrylic acid terpolymer for applications in glass-ionomer dental cements. <i>Acta Biomaterialia</i> , 2009, 5, 2101-2108.	8.3	53
25	Hydrogel elasticity and microarchitecture regulate dental-derived mesenchymal stem cell-host immune system cross-talk. <i>Acta Biomaterialia</i> , 2017, 60, 181-189.	8.3	49
26	Immunomodulatory microneedle patch for periodontal tissue regeneration. <i>Matter</i> , 2022, 5, 666-682.	10.0	49
27	Alginate/hyaluronic acid hydrogel delivery system characteristics regulate the differentiation of periodontal ligament stem cells toward chondrogenic lineage. <i>Journal of Materials Science: Materials in Medicine</i> , 2017, 28, 162.	3.6	47
28	Regulation of the fate of dental-derived mesenchymal stem cells using engineered alginate-GelMA hydrogels. <i>Journal of Biomedical Materials Research - Part A</i> , 2017, 105, 2957-2967.	4.0	47
29	In situ bone tissue engineering using gene delivery nanocomplexes. <i>Acta Biomaterialia</i> , 2020, 108, 326-336.	8.3	41
30	Comparative evaluation of the physical properties of a reinforced glass ionomer dental restorative material. <i>Journal of Prosthetic Dentistry</i> , 2019, 122, 154-159.	2.8	40
31	Functionalization of scaffolds with chimeric anti-BMP-2 monoclonal antibodies for osseous regeneration. <i>Biomaterials</i> , 2013, 34, 10191-10198.	11.4	32
32	A review of polyelectrolyte modifications in conventional glass-ionomer dental cements. <i>Journal of Materials Chemistry</i> , 2012, 22, 2824.	6.7	31
33	Measure of microhardness, fracture toughness and flexural strength of N-vinylcaprolactam (NVC)-containing glass-ionomer dental cements. <i>Dental Materials</i> , 2010, 26, 1137-1143.	3.5	28
34	Dental and orofacial mesenchymal stem cells in craniofacial regeneration: The prosthodontist's point of view. <i>Journal of Prosthetic Dentistry</i> , 2017, 118, 455-461.	2.8	27
35	RGD-Modified Alginate-GelMA Hydrogel Sheet Containing Gingival Mesenchymal Stem Cells: A Unique Platform for Wound Healing and Soft Tissue Regeneration. <i>ACS Biomaterials Science and Engineering</i> , 2021, 7, 3774-3782.	5.2	27
36	A technique for retrieving fractured implant screws. <i>Journal of Prosthetic Dentistry</i> , 2014, 111, 81-83.	2.8	26

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37	Cytokine Secreting Microparticles Engineer the Fate and the Effector Functions of Tâ€šCells. <i>Advanced Materials</i> , 2018, 30, 1703178.	21.0	25
38	Comparison of dimensional accuracy of conventionally and digitally manufactured intracoronary restorations. <i>Journal of Prosthetic Dentistry</i> , 2018, 119, 233-238.	2.8	25
39	Synthesis and characterization of a novel fast-set proline-derivative-containing glass ionomer cement with enhanced mechanical properties. <i>Acta Biomaterialia</i> , 2009, 5, 498-507.	8.3	24
40	Effects of incorporation of nano-fluorapatite particles on microhardness, fluoride releasing properties, and biocompatibility of a conventional glass ionomer cement (GIC). <i>Dental Materials Journal</i> , 2016, 35, 817-821.	1.8	24
41	Effects of N-vinylpyrrolidone (NVP) containing polyelectrolytes on surface properties of conventional glass-ionomer cements (GIC). <i>Dental Materials</i> , 2009, 25, 1240-1247.	3.5	23
42	Mechanobiological Mimicry of Helper T Lymphocytes to Evaluate Cellâ€šBiomaterials Crosstalk. <i>Advanced Materials</i> , 2018, 30, e1706780.	21.0	22
43	Effect of different thermoâ€šlight polymerization on flexural strength of two glass ionomer cements and a glass carbomerâ€šcement. <i>Journal of Prosthetic Dentistry</i> , 2017, 118, 102-107.	2.8	21
44	Synthesis of N-vinylpyrrolidone modified acrylic acid copolymer in supercritical fluids and its application in dental glass-ionomer cements. <i>Journal of Materials Science: Materials in Medicine</i> , 2008, 19, 2705-2711.	3.6	20
45	Implant-abutment interface: A comparison of the ultimate force to failure among narrow-diameter implant systems. <i>Journal of Prosthetic Dentistry</i> , 2014, 112, 136-142.	2.8	20
46	Effect of laser-dimpled titanium surfaces on attachment of epithelial-like cells and fibroblasts. <i>Journal of Advanced Prosthodontics</i> , 2015, 7, 138.	2.6	20
47	Bioactive glassâ€šcontaining hydrogel delivery system for osteogenic differentiation of human dental pulp stem cells. <i>Journal of Biomedical Materials Research - Part A</i> , 2020, 108, 557-564.	4.0	20
48	Development of bacterially resistant polyurethane for coating medical devices. <i>Biomedical Materials (Bristol)</i> , 2012, 7, 015007.	3.3	19
49	Review of the Modern Dental Ceramic Restorative Materials for Esthetic Dentistry in the Minimally Invasive Age. <i>Dental Clinics of North America</i> , 2020, 64, 621-631.	1.8	19
50	Engineered Delivery of Dental Stemâ€šCellâ€šDerived Extracellular Vesicles for Periodontal Tissue Regeneration. <i>Advanced Healthcare Materials</i> , 2022, 11, e2102593.	7.6	15
51	Surface properties and bond strength measurements of N-vinylcaprolactam (NVC)-containing glass-ionomer cements. <i>Journal of Prosthetic Dentistry</i> , 2011, 105, 185-193.	2.8	14
52	Nanoscale Optoregulation of Neural Stem Cell Differentiation by Intracellular Alteration of Redox Balance. <i>Advanced Functional Materials</i> , 2017, 27, 1701420.	14.9	14
53	Whitlockite-Enabled Hydrogel for Craniofacial Bone Regeneration. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 35342-35355.	8.0	13
54	Effects of N-vinylcaprolactam containing polyelectrolytes on hardness, fluoride release and water sorption of conventional glass ionomers. <i>Journal of Prosthetic Dentistry</i> , 2011, 105, 323-331.	2.8	12

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55	A narrative overview of utilizing biomaterials to recapitulate the salient regenerative features of dental-derived mesenchymal stem cells. <i>International Journal of Oral Science</i> , 2021, 13, 22.	8.6	12
56	Ultrasonically set novel NVC-containing glass-ionomer cements for applications in restorative dentistry. <i>Journal of Materials Science: Materials in Medicine</i> , 2011, 22, 2029-2034.	3.6	10
57	Effects of the orientation of anti-BMP2 monoclonal antibody immobilized on scaffold in antibody-mediated osseous regeneration. <i>Journal of Biomaterials Applications</i> , 2015, 30, 558-567.	2.4	9
58	Effects of an etching solution on the adhesive properties and surface microhardness of zirconia dental ceramics. <i>Journal of Prosthetic Dentistry</i> , 2018, 120, 447-453.	2.8	8
59	Minced Pulp as Source of Pulpal Mesenchymal Stem Cells with Odontogenic Differentiation Capacity. <i>Journal of Endodontics</i> , 2018, 44, 80-86.	3.1	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. <i>BioMed Research International</i> , 2017, 2017, 1-11.	1.9	7
62	A multidisciplinary approach for the rehabilitation of a patient with an excessively worn dentition: A clinical report. <i>Journal of Prosthetic Dentistry</i> , 2014, 111, 259-263.	2.8	6
63	Tissue Regeneration: A Multifunctional Polymeric Periodontal Membrane with Osteogenic and Antibacterial Characteristics (<i>Adv. Funct. Mater.</i> 3/2018). <i>Advanced Functional Materials</i> , 2018, 28, 1870021.	14.9	6
64	Microenvironment Can Induce Development of Auditory Progenitor Cells from Human Gingival Mesenchymal Stem Cells. <i>ACS Biomaterials Science and Engineering</i> , 2020, 6, 2263-2273.	5.2	6
65	Click Chemistry: A Potential Platform for Development of Novel Dental Restorative Materials. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 2012, 49, 288-292.	2.2	5
66	Full mouth rehabilitation of a young patient with partial expressions of ectodermal dysplasia: A clinical report. <i>Journal of Prosthetic Dentistry</i> , 2014, 112, 449-454.	2.8	5
67	Biomechanical analysis of engineered bone with anti-BMP2 antibody immobilized on different scaffolds. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2016, 104, 1465-1473.	3.4	5
68	Effects of setting under air pressure on the number of surface pores and irregularities of dental investment materials. <i>Journal of Prosthetic Dentistry</i> , 2014, 111, 150-153.	2.8	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. <i>Journal of Biomaterials Applications</i> , 2017, 32, 425-432.	2.4	4
70	Mandibular implant-supported fixed dental prosthesis with a modified design: A clinical report. <i>Journal of Prosthetic Dentistry</i> , 2014, 111, 91-95.	2.8	3
71	New Engineered Fusion Peptide with Dual Functionality: Antibacterial and Strong Binding to Hydroxyapatite. <i>International Journal of Peptide Research and Therapeutics</i> , 2020, 26, 1629-1639.	1.9	3
72	Synthesis and characterization of a photo-crosslinked bioactive polycaprolactone-based osteoconductive biocomposite. <i>Journal of Biomedical Materials Research - Part A</i> , 2021, 109, 1858-1868.	4.0	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. <i>Stem Cells International</i> , 2021, 2021, 1-8.	2.5	3
74	Biofilms in restorative dentistry: A clinical report. <i>Journal of Prosthetic Dentistry</i> , 2015, 113, 524-527.	2.8	2
75	CAD-CAM acrylic resin prosthesis superstructure: A technique for fabricating an implant-supported fixed complete denture. <i>Journal of Prosthetic Dentistry</i> , 2019, 121, 378-380.	2.8	1
76	A multifunctional fusion peptide for tethering to hydroxyapatite and selective capture of bone morphogenetic protein from extracellular milieu. <i>Journal of Biomedical Materials Research - Part A</i> , 2020, 108, 1459-1466.	4.0	0