Mohammad Mehdi Dehghan

List of Publications by Year
in descending order

73 papers	1,657 citations	257101 24 h-index	329751 37 g-index
73 all docs	73 docs citations	73 times ranked	2617 citing authors

#	Article	IF	Citations
1	Marrow-derived mesenchymal stem cells-directed bone regeneration in the dog mandible: a comparison between biphasic calcium phosphate and natural bone mineral. Oral Surgery Oral Medicine Oral Pathology Oral Radiology and Endodontics, 2008, 105, e14-e24.	1.6	107
2	Regeneration of meniscus tissue using adipose mesenchymal stem cells-chondrocytes co-culture on a hybrid scaffold: InÂvivo study. Biomaterials, 2017, 126, 18-30.	5.7	96
3	Preparation and Evaluation of Contact Lenses Embedded with Polycaprolactone-Based Nanoparticles for Ocular Drug Delivery. Biomacromolecules, 2016, 17, 485-495.	2.6	85
4	Carbon nanotube doped pericardial matrix derived electroconductive biohybrid hydrogel for cardiac tissue engineering. Biomaterials Science, 2019, 7, 3906-3917.	2.6	83
5	3Dâ€“printed biphasic calcium phosphate scaffolds coated with an oxygen generating system for enhancing engineered tissue survival. Materials Science and Engineering C, 2018, 84, 236-242.	3.8	77
6	The effect of PCLâ€TCP scaffold loaded with mesenchymal stem cells on vertical bone augmentation in dog mandible: A preliminary report. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2013, 101B, 848-854.	1.6	70
7	Novel layered double hydroxides-hydroxyapatite/gelatin bone tissue engineering scaffolds: Fabrication, characterization, and in vivo study. Materials Science and Engineering C, 2017, 76, 701-714.	3.8	68
8	A comparison between neurally induced bone marrow derived mesenchymal stem cells and olfactory ensheathing glial cells to repair spinal cord injuries in rat. Tissue and Cell, 2012, 44, 205-213.	1.0	48
9	Isolation and Differentiation of Mesenchymal Stem Cells From Bovine Umbilical Cord Blood. Reproduction in Domestic Animals, 2011, 46, 95-99.	0.6	45
10	Release behavior and signaling effect of vitamin D3 in layered double hydroxides-hydroxyapatite/gelatin bone tissue engineering scaffold: An in vitro evaluation. Colloids and Surfaces B: Biointerfaces, 2017, 158, 697-708.	2.5	43
11	Chitosan/PEO nanofibers containing Calendula officinalis extract: Preparation, characterization, in vitro and in vivo evaluation for wound healing applications. International Journal of Pharmaceutics, 2021, 609, 121132.	2.6	43
12	Transplantation of a combination of autologous neural differentiated and undifferentiated mesenchymal stem cells into injured spinal cord of rats. Spinal Cord, 2010, 48, 457-463.	0.9	40
13	Effects of carbomer 940 hydrogel on burn wounds: an in vitro and in vivo study. Journal of Dermatological Treatment, 2018, 29, 593-599.	1.1	39
14	Oxygen-Releasing Scaffolds for Accelerated Bone Regeneration. ACS Biomaterials Science and Engineering, 2020, 6, 2985-2994.	2.6	38
15	Optimisation and biological activities of bioceramic robocast scaffolds provided with an oxygen-releasing coating for bone tissue engineering applications. Ceramics International, 2019, 45, 805-816.	2.3	37
16	Multifunctional gelatinâ€“tricalcium phosphate porous nanocomposite scaffolds for tissue engineering and local drug delivery: In vitro and in vivo studies. Journal of the Taiwan Institute of Chemical Engineers, 2019, 101, 214-220.	2.7	31
17	Biological evaluation of polyvinyl alcohol hydrogel crosslinked by polyurethane chain for cartilage tissue engineering in rabbit model. Journal of Materials Science: Materials in Medicine, 2013, 24, 2449-2460.	1.7	30
18	Bone marrow or adipose tissue mesenchymal stem cells: Comparison of the therapeutic potentials in mice model of acute liver failure. Journal of Cellular Biochemistry, 2018, 119, 5834-5842.	1.2	30

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19	Biological evaluation of porous nanocomposite scaffolds based on strontium substituted Î²-TCP and bioactive glass: An in vitro and in vivo study. Materials Science and Engineering C, 2019, 105, 110071.	3.8	29
20	Intrapulmonary autologous transplant of bone marrow-derived mesenchymal stromal cells improves lipopolysaccharide-induced acute respiratory distress syndrome in rabbit. Critical Care, 2018, 22, 353.	2.5	28
21	The Effect of a Constant Electrical Field on Osseointegration after Immediate Implantation in Dog Mandibles: A Preliminary Study. Journal of Prosthodontics, 2007, 16, 337-342.	1.7	27
22	Sequential application of mineralized electroconductive scaffold and electrical stimulation for efficient osteogenesis. Journal of Biomedical Materials Research - Part A, 2018, 106, 1200-1210.	2.1	27
23	Functional synergy of anti-mir221 and nanohydroxyapatite scaffold in bone tissue engineering of rat skull. Journal of Materials Science: Materials in Medicine, 2016, 27, 132.	1.7	26
24	Bladder smooth muscle cells on electrospun poly(Îµ-caprolactone)/poly(l -lactic acid) scaffold promote bladder regeneration in a canine model. Materials Science and Engineering C, 2017, 75, 877-884.	3.8	25
25	The osteoregenerative effects of plateletâ€derived growth factor BB cotransplanted with mesenchymal stem cells, loaded on freezeâ€dried mineral bone block: A pilot study in dog mandible. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2014, 102, 1771-1778.	1.6	23
26	In vitro and in vivo evaluation of silk fibroin-hardystonite-gentamicin nanofibrous scaffold for tissue engineering applications. Polymer Testing, 2020, 91, 106698.	2.3	22
27	Immobilization of bromelain and ZnO nanoparticles on silk fibroin nanofibers as an antibacterial and anti-inflammatory burn dressing. International Journal of Pharmaceutics, 2021, 610, 121227.	2.6	22
28	The effect of a platelet-rich fibrin conduit on neurosensory recovery following inferior alveolar nerve lateralization: a preliminary clinical study. International Journal of Oral and Maxillofacial Surgery, 2016, 45, 1303-1308.	0.7	20
29	Transplantation of Autologous Bone Marrow Mesenchymal Stem Cells with Platelet-Rich Plasma Accelerate Distraction Osteogenesis in A Canine Model. Cell Journal, 2015, 17, 243-52.	0.2	20
30	Verification of the mechanostat theory in mandible remodeling after tooth extraction: Animal study and numerical modeling. Journal of the Mechanical Behavior of Biomedical Materials, 2013, 20, 354-362.	1.5	19
31	Isolation and Assessment of Mesenchymal Stem Cells Derived From Bone Marrow: Histologic and Histomorphometric Study in a Canine Periodontal Defect. Journal of Oral Implantology, 2015, 41, 284-291.	0.4	19
32	The effect of low-level laser therapy (810Ânm) on root development of immature permanent teeth in dogs. Lasers in Medical Science, 2015, 30, 1251-1257.	1.0	19
33	Silk-derived oxygen-generating electrospun patches for enhancing tissue regeneration: Investigation of calcium peroxide role and its effects on controlled oxygen delivery. Materialia, 2020, 14, 100877.	1.3	19
34	Recovery of inferior alveolar nerve by photobiomodulation therapy using two laser wavelengths: A behavioral and immunological study in rat. Journal of Photochemistry and Photobiology B: Biology, 2020, 204, 111785.	1.7	18
35	Comparing the effect of equiaxial cyclic mechanical stimulation on GATA4 expression in adiposeâ€derived and bone marrowâ€derived mesenchymal stem cells. Cell Biology International, 2014, 38, 219-227.	1.4	16
36	Enhanced osteogenesis of gelatin-halloysite nanocomposite scaffold mediated by loading strontium ranelate. International Journal of Polymeric Materials and Polymeric Biomaterials, 2021, 70, 392-402.	1.8	15

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37	The effects of bone implantsâ€™ coating mechanical properties on osseointegration: In vivo, in vitro, and histological investigations. Journal of Biomedical Materials Research - Part A, 2018, 106, 2679-2691.	2.1	14
38	An integrated microfluidic device for stem cell differentiation based on cell-imprinted substrate designed for cartilage regeneration in a rabbit model. Materials Science and Engineering C, 2021, 121, 111794.	3.8	14
39	Therapeutic effects of simultaneous Photobiomodulation therapy (PBMT) and Meloxicam administration on experimental acute spinal cord injury: Rat animal model. Journal of Photochemistry and Photobiology B: Biology, 2018, 189, 49-54.	1.7	13
40	Role of biomechanics in vascularization of tissue-engineered bones. Journal of Biomechanics, 2020, 110, 109920.	0.9	13
41	Comparison of osteogenic differentiation potential of induced pluripotent stem cells and buccal fat pad stem cells on 3D-printed HA/Î²-TCP collagen-coated scaffolds. Cell and Tissue Research, 2021, 384, 403-421.	1.5	13
42	Capability of core-sheath polyvinyl alcoholâ€“polycaprolactone emulsion electrospun nanofibrous scaffolds in releasing strontium ranelate for bone regeneration. Biomedical Materials (Bristol), 2021, 16, 025009.	1.7	13
43	Preparation and characterization of <scp>58S</scp> bioactive glass based scaffold with Kaempferolâ€containing Zein coating for bone tissue engineering. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2021, 109, 1259-1270.	1.6	13
44	The Effect of Plateletâ€Rich Plasma on Healing of Palatal Donor Site following Connective Tissue Harvesting: A Pilot Study in Dogs. Clinical Implant Dentistry and Related Research, 2012, 14, 428-433.	1.6	12
45	Paracrine Neuroprotective Effects of Neural Stem Cells on Glutamate-Induced Cortical Neuronal Cell Excitotoxicity. Advanced Pharmaceutical Bulletin, 2015, 5, 515-521.	0.6	12
46	Bladder tissue engineering using biocompatible nanofibrous electrospun constructs: feasibility and safety investigation. Urology Journal, 2012, 9, 410-9.	0.3	12
47	Mechanical and Chemical Predifferentiation of Mesenchymal Stem Cells Into Cardiomyocytes and Their Effectiveness on Acute Myocardial Infarction. Artificial Organs, 2018, 42, E114-E126.	1.0	11
48	Linear Momenta Transferred to the Dental Implant-Bone and Natural Toothâ€”PDL-Bone Constructs Under Impact Loading: A Comparative in-vitro and in-silico Study. Frontiers in Bioengineering and Biotechnology, 2020, 8, 544.	2.0	10
49	Prefabrication technique by preserving a muscular pedicle from masseter muscle as an in vivo bioreactor for reconstruction of mandibular criticalâ€sized bone defects in canine models. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2022, 110, 1675-1686.	1.6	9
50	The effects of freeze/thawing process on cryopreserved equine umbilical cord blood-derived mesenchymal stem cells. Comparative Clinical Pathology, 2012, 21, 1713-1718.	0.3	8
51	Comparison of Analgesic Effects of a Constant Rate Infusion of Both Tramadol and Acetaminophen Versus those of Infusions of Each Individual Drug in Horses. Journal of Equine Veterinary Science, 2018, 64, 101-106.	0.4	8
52	Generation of Lung and Airway Epithelial Cells from Embryonic Stem Cells In Vitro. Critical Reviews in Eukaryotic Gene Expression, 2016, 26, 1-9.	0.4	7
53	Effects of Platelet-Rich Fibrin/Collagen Membrane on Sciatic Nerve Regeneration. Journal of Craniofacial Surgery, 2021, 32, 794-798.	0.3	7
54	Experimental research Supportive features of a new hybrid scaffold for urothelium engineering. Archives of Medical Science, 2015, 2, 438-445.	0.4	6

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55	Immediate implant placement following 1-year treatment with oral versus intravenous bisphosphonates: a histomorphometric canine study on peri-implant bone. Clinical Oral Investigations, 2019, 23, 1803-1809.	1.4	6
56	Osteogenic and Angiogenic Synergy of Human Adipose Stem Cells and Human Umbilical Vein Endothelial Cells Cocultured in a Modified Perfusion Bioreactor. Organogenesis, 2021, 17, 56-71.	0.4	6
57	Auricular mast cell tumour in a cow. Veterinary Record, 2004, 155, 124-125.	0.2	5
58	Healing of Extraction Sockets and Augmented Alveolar Defects Following 1-Year Treatment With Bisphosphonate. Journal of Craniofacial Surgery, 2013, 24, e68-e73.	0.3	5
59	Prevention of LPS-induced acute respiratory distress syndrome in sheep by bone marrow-derived mesenchymal stem/stromal cells. Life Sciences, 2020, 263, 118600.	2.0	5
60	In vivo evaluation of bone regeneration behavior of novel Î²â€tricalcium phosphate/layered double hydroxide nanocomposite granule as bone graft substitutes. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2022, 110, 1001-1011.	1.6	5
61	Cranium bifidum with meningocele in a lamb. Small Ruminant Research, 2004, 55, 253-256.	0.6	4
62	Breathable tissue engineering scaffolds: An efficient design-optimization by additive manufacturing. Materials Today: Proceedings, 2018, 5, 15813-15820.	0.9	4
63	Dental implantsâ€™ stability dependence on rotational speed and feed-rate of drilling: In-vivo and ex-vivo investigations. Journal of Biomechanics, 2021, 127, 110696.	0.9	4
64	The Therapeutic Potential of Differentiated Lung Cells from Embryonic Stem Cells in Lung Diseases. Current Stem Cell Research and Therapy, 2016, 12, 80-84.	0.6	4
65	Short Pretreatment with Calcitriol Is Far Superior to Continuous Treatment in Stimulating Proliferation and Osteogenic Differentiation of Human Adipose Stem Cells. Cell Journal, 2020, 22, 293-301.	0.2	3
66	Cartilage tissue regeneration using kartogenin loaded hybrid scaffold for the chondrogenic of adipose mesenchymal stem cells. Journal of Drug Delivery Science and Technology, 2022, , 103384.	1.4	3
67	Are magnetic resonance imaging or radiographic findings correlated with clinical prognosis in spinal cord neuropathy?. Veterinary Research Forum, 2016, 7, 261-266.	0.3	2
68	THE EFFECT OF DISPLACEMENT RATE ON VISCOELASTIC PROPERTIES OF RAT CERVIX. Biomedical Engineering - Applications, Basis and Communications, 2016, 28, 1650018.	0.3	1
69	Determination of an average quasi-linear viscoelastic model for the mechanical behavior of rat cervix. Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications, 2019, 233, 924-929.	0.7	1
70	Cutaneous haemangioma in a cow. Veterinary Record, 2003, 152, 691-692.	0.2	0
71	Growth characteristics of fibroblasts isolated from the body and limb of the Caspian miniature horse and the effect of hydrocortisone in vitro. Comparative Clinical Pathology, 2012, 21, 315-320.	0.3	0
72	Histologic and Histomorphometric Assessment of Xenograft Bone Substitute versus Synthetic Nonceramic Hydroxyapatite for Canine Tooth-Socket Preservation. Journal of Long-Term Effects of Medical Implants, 2019, 29, 281-288.	0.2	0

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73	Comparison of engineered cartilage based on <scp>BMSCs</scp> and chondrocytes seeded on <scp>PVA</scp> â€•<scp>PPU</scp> scaffold in a sheep model. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2022, , .	1.6	0