Seyedsina Moeinzadeh

List of Publications by Year
in descending order

41 papers	1,136 citations	394421 19 h-index	395702 33 g-index
41 all docs	41 docs citations	41 times ranked	1701 citing authors

#	Article	IF	Citations
1	Regenerative Scar-Free Skin Wound Healing. Tissue Engineering - Part B: Reviews, 2019, 25, 294-311.	4.8	132
2	Spatiotemporal release of BMP-2 and VEGF enhances osteogenic and vasculogenic differentiation of human mesenchymal stem cells and endothelial colony-forming cells co-encapsulated in a patterned hydrogel. Journal of Controlled Release, 2016, 223, 126-136.	9.9	124
3	Optimum 3D Matrix Stiffness for Maintenance of Cancer Stem Cells Is Dependent on Tissue Origin of Cancer Cells. PLoS ONE, 2015, 10, e0132377.	2.5	97
4	Three-Dimensional-Engineered Matrix to Study Cancer Stem Cells and Tumorsphere Formation: Effect of Matrix Modulus. Tissue Engineering - Part A, 2013, 19, 669-684.	3.1	68
5	Effect of surface modification of nanofibres with glutamic acid peptide on calcium phosphate nucleation and osteogenic differentiation of marrow stromal cells. Journal of Tissue Engineering and Regenerative Medicine, 2016, 10, E132-E146.	2.7	51
6	Comparative effect of physicomechanical and biomolecular cues on zone-specific chondrogenic differentiation of mesenchymal stem cells. Biomaterials, 2016, 92, 57-70.	11.4	46
7	Gelation Characteristics and Osteogenic Differentiation of Stromal Cells in Inert Hydrolytically Degradable Micellar Polyethylene Glycol Hydrogels. Biomacromolecules, 2012, 13, 2073-2086.	5.4	45
8	Drug release kinetics, cell uptake, and tumor toxicity of hybrid VVVVVVKK peptide-assembled polylactide nanoparticles. European Journal of Pharmaceutics and Biopharmaceutics, 2013, 84, 49-62.	4.3	42
9	A developmentally inspired combined mechanical and biochemical signaling approach on zonal lineage commitment of mesenchymal stem cells in articular cartilage regeneration. Integrative Biology (United Kingdom), 2015, 7, 112-127.	1.3	42
10	Synthesis and Characterization of Photo-Cross-Linkable Keratin Hydrogels for Stem Cell Encapsulation. Biomacromolecules, 2017, 18, 398-412.	5.4	40
11	Effect of CD44 Binding Peptide Conjugated to an Engineered Inert Matrix on Maintenance of Breast Cancer Stem Cells and Tumorsphere Formation. PLoS ONE, 2013, 8, e59147.	2.5	35
12	Effect of Organic Acids on Calcium Phosphate Nucleation and Osteogenic Differentiation of Human Mesenchymal Stem Cells on Peptide Functionalized Nanofibers. Langmuir, 2015, 31, 5130-5140.	3.5	34
13	Synthesis and gelation characteristics of photo-crosslinkable star Poly(ethylene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 262 Tc	3.8	32
14	Effect of Electron Beam Sterilization on Three-Dimensional-Printed Polycaprolactone/Beta-Tricalcium Phosphate Scaffolds for Bone Tissue Engineering. Tissue Engineering - Part A, 2019, 25, 248-256.	3.1	28
15	In-situ stable injectable collagen-based hydrogels for cell and growth factor delivery. Materialia, 2021, 15, 100954.	2.7	26
16	Mesoscale Simulation of the Effect of a Lactide Segment on the Nanostructure of Star Poly(ethylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf Chemistry B, 2012, 116, 1536-1543.	2.6	25
17	Time dependence of material properties of polyethylene glycol hydrogels chain extended with short hydroxy acid segments. Polymer, 2014, 55, 3894-3904.	3.8	22
18	Nanostructure Formation and Transition from Surface to Bulk Degradation in Polyethylene Glycol Gels Chain-Extended with Short Hydroxy Acid Segments. Biomacromolecules, 2013, 14, 2917-2928.	5.4	20

#	Article	IF	Citations
19	Experimental and Computational Investigation of the Effect of Hydrophobicity on Aggregation and Osteoinductive Potential of BMP-2-Derived Peptide in a Hydrogel Matrix. Tissue Engineering - Part A, 2015, 21, 134-146.	3.1	19
20	Gelation characteristics, physico-mechanical properties and degradation kinetics of micellar hydrogels. European Polymer Journal, 2015, 72, 566-576.	5.4	18
21	The effect of genetically modified platelet-derived growth factor-BB over-expressing mesenchymal stromal cells during core decompression for steroid-associated osteonecrosis of the femoral head in rabbits. Stem Cell Research and Therapy, 2021, 12, 503.	5.5	17
22	Material and regenerative properties of an osteon-mimetic cortical bone-like scaffold. International Journal of Energy Production and Management, 2019, 6, 89-98.	3.7	16
23	Osteoinductive 3D printed scaffold healed 5Âcm segmental bone defects in the ovine metatarsus. Scientific Reports, 2021, 11, 6704.	3.3	16
24	Dual Delivery of BMP2 and IGF1 Through Injectable Hydrogel Promotes Cranial Bone Defect Healing. Tissue Engineering - Part A, 2022, 28, 760-769.	3.1	16
25	A bioactive compliant vascular graft modulates macrophage polarization and maintains patency with robust vascular remodeling. Bioactive Materials, 2023, 19, 167-178.	15.6	15
26	Nanoparticles and Their Applications. Springer Handbooks, 2017, , 335-361.	0.6	14
27	Cell-Based and Scaffold-Based Therapies for Joint Preservation in Early-Stage Osteonecrosis of the Femoral Head. JBJS Reviews, 2019, 7, e5-e5.	2.0	13
28	Effect of porosity of a functionally-graded scaffold for the treatment of corticosteroid-associated osteonecrosis of the femoral head in rabbits. Journal of Orthopaedic Translation, 2021, 28, 90-99.	3.9	13
29	The efficacy of lapine preconditioned or genetically modified IL4 over-expressing bone marrow-derived mesenchymal stromal cells in corticosteroid-associated osteonecrosis of the femoral head in rabbits. Biomaterials, 2021, 275, 120972.	11.4	12
30	Morphogenic Peptides in Regeneration of Load Bearing Tissues. Advances in Experimental Medicine and Biology, 2015, 881, 95-110.	1.6	10
31	Plasmin-Cleavable Nanoparticles for On-Demand Release of Morphogens in Vascularized Osteogenesis. Biomacromolecules, 2019, 20, 2973-2988.	5.4	10
32	Development of PLGAâ€PEGâ€COOH and Gelatinâ€Based Microparticles Dual Delivery System and Eâ€Beam Sterilization Effects for Controlled Release of BMPâ€2 and IGFâ€1. Particle and Particle Systems Characterization, 2020, 37, 2000180.	2.3	10
33	Sequential Zonal Chondrogenic Differentiation of Mesenchymal Stem Cells in Cartilage Matrices. Tissue Engineering - Part A, 2019, 25, 234-247.	3.1	8
34	Investigation of a Prevascularized Bone Graft for Large Defects in the Ovine Tibia. Tissue Engineering - Part A, 2021, 27, 1458-1469.	3.1	6
35	Hydrogels for Cell Encapsulation and Bioprinting. Pancreatic Islet Biology, 2015, , 89-108.	0.3	3
36	3D Cell Culture in Micropatterned Hydrogels Prepared by Photomask, Microneedle, or Soft Lithography Techniques. Methods in Molecular Biology, 2017, 1612, 239-252.	0.9	3

#	Article	IF	Citations
37	Nanostructure Formation in Hydrogels. , 2014, , 285-297.		3
38	Applying deep learning to quantify empty lacunae in histologic sections of osteonecrosis of the femoral head. Journal of Orthopaedic Research, 2022, 40, 1801-1809.	2.3	3
39	Devitalized Stem Cell Microsheets for Sustainable Release of Osteogenic and Vasculogenic Growth Factors and Regulation of Antiâ€Inflammatory Immune Response. Advanced Biology, 2017, 1, 1600011.	3.0	1
40	Hybprinting for musculoskeletal tissue engineering. IScience, 2022, 25, 104229.	4.1	1
41	Gelation Characteristics and Encapsulation of Stromal Cells in Star Acrylate-Functionalized Poly(ethylene glycol-co-lactide) Macromonomers. Materials Research Society Symposia Proceedings, 2012, 1403, 67.	0.1	0