

Nooshin Haghighipour

List of Publications by Year in descending order

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64
papers

1,041
citations

394286

19
h-index

477173

29
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65
all docs

65
docs citations

65
times ranked

1675
citing authors

#	ARTICLE	IF	CITATIONS
1	Preparation and characterization of novel functionalized multiwalled carbon nanotubes/chitosan/ β -2-Glycerophosphate scaffolds for bone tissue engineering. <i>International Journal of Biological Macromolecules</i> , 2017, 97, 365-372.	3.6	97
2	Engineering Parameters in Bioreactor's Design: A Critical Aspect in Tissue Engineering. <i>BioMed Research International</i> , 2013, 2013, 1-15.	0.9	72
3	Graphene oxide incorporated polycaprolactone/chitosan/collagen electrospun scaffold: Enhanced osteogenic properties for bone tissue engineering. <i>Artificial Organs</i> , 2019, 43, E264-E281.	1.0	69
4	Regulation of Endothelial Cell Adherence and Elastic Modulus by Substrate Stiffness. <i>Cell Communication and Adhesion</i> , 2015, 22, 79-89.	1.0	52
5	The evaluation of cyclic uniaxial strain on myogenic differentiation of adipose-derived stem cells. <i>Tissue and Cell</i> , 2011, 43, 359-366.	1.0	39
6	Effects of Cyclic Stretch Waveform on Endothelial Cell Morphology Using Fractal Analysis. <i>Artificial Organs</i> , 2010, 34, 481-490.	1.0	32
7	Nitric oxide secretion by endothelial cells in response to fluid shear stress, aspirin, and temperature. <i>Journal of Biomedical Materials Research - Part A</i> , 2015, 103, 1231-1237.	2.1	32
8	Healing potential of mesenchymal stem cells cultured on a collagen-based scaffold for skin regeneration. <i>Iranian Biomedical Journal</i> , 2012, 16, 68-76.	0.4	32
9	Intermittent Hydrostatic Pressure Enhances Growth Factor-Induced Chondroinduction of Human Adipose-Derived Mesenchymal Stem Cells. <i>Artificial Organs</i> , 2012, 36, 1065-1071.	1.0	30
10	The Synergistic Effects of Shear Stress and Cyclic Hydrostatic Pressure Modulate Chondrogenic Induction of Human Mesenchymal Stem Cells. <i>International Journal of Artificial Organs</i> , 2015, 38, 557-564.	0.7	30
11	Differential effects of cyclic uniaxial stretch on human mesenchymal stem cell into skeletal muscle cell. <i>Cell Biology International</i> , 2012, 36, 669-675.	1.4	28
12	Mechanical characterization of human mesenchymal stem cells subjected to cyclic uniaxial strain and TGF- β 1. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2015, 43, 18-25.	1.5	26
13	An investigation into osteogenic differentiation effects of silk fibroin-nettle (<i>Urtica dioica</i> L.) nanofibers. <i>International Journal of Biological Macromolecules</i> , 2019, 133, 795-803.	3.6	26
14	Effects of Mechanical and Chemical Stimuli on Differentiation of Human Adipose-Derived Stem Cells into Endothelial Cells. <i>International Journal of Artificial Organs</i> , 2013, 36, 663-673.	0.7	25
15	Effects of Hydrostatic Pressure on Biosynthetic Activity during Chondrogenic Differentiation of MSCs in Hybrid Scaffolds. <i>International Journal of Artificial Organs</i> , 2014, 37, 142-148.	0.7	25
16	Optimization of electrical stimulation parameters for MG-63 cell proliferation on chitosan/functionalized multiwalled carbon nanotube films. <i>RSC Advances</i> , 2016, 6, 109902-109915.	1.7	24
17	Alteration of human umbilical vein endothelial cell gene expression in different biomechanical environments. <i>Cell Biology International</i> , 2014, 38, 577-581.	1.4	20
18	Modified DCs and MSCs with HPV E7 antigen and small Hsps: Which one is the most potent strategy for eradication of tumors?. <i>Molecular Immunology</i> , 2019, 108, 102-110.	1.0	20

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19	Induction of Chondrogenic Differentiation in Human Mesenchymal Stem Cells Cultured on Human Demineralized Bone Matrix Scaffold under Hydrostatic Pressure. <i>Tissue Engineering and Regenerative Medicine</i> , 2019, 16, 69-80.	1.6	20
20	Influence of Cyclic Stretch on Mechanical Properties of Endothelial Cells. <i>Experimental Mechanics</i> , 2013, 53, 1291-1298.	1.1	19
21	How direct electrospinning in methanol bath affects the physicochemical and biological properties of silk fibroin nanofibrous scaffolds. <i>Micro and Nano Letters</i> , 2016, 11, 514-517.	0.6	17
22	Comparing the effect of equiaxial cyclic mechanical stimulation on GATA4 expression in adipose-derived and bone marrow-derived mesenchymal stem cells. <i>Cell Biology International</i> , 2014, 38, 219-227.	1.4	16
23	Extremely Low Frequency Electromagnetic Field in Mesenchymal Stem Cells Gene Regulation: Chondrogenic Markers Evaluation. <i>Artificial Organs</i> , 2016, 40, 929-937.	1.0	16
24	Effects of Electromagnetic Stimulation on Gene Expression of Mesenchymal Stem Cells and Repair of Bone Lesions. <i>Cell Journal</i> , 2017, 19, 34-44.	0.2	16
25	Applying shear stress to endothelial cells in a new perfusion chamber: hydrodynamic analysis. <i>Journal of Artificial Organs</i> , 2014, 17, 329-336.	0.4	14
26	The stability evaluation of mesenchymal stem cells differentiation toward endothelial cells by chemical and mechanical stimulation. <i>In Vitro Cellular and Developmental Biology - Animal</i> , 2017, 53, 818-826.	0.7	14
27	Superparamagnetic Nanoparticles Direct Differentiation of Embryonic Stem Cells Into Skeletal Muscle Cells. <i>Journal of Biomaterials and Tissue Engineering</i> , 2014, 4, 579-585.	0.0	14
28	Mechanical and Chemical Predifferentiation of Mesenchymal Stem Cells Into Cardiomyocytes and Their Effectiveness on Acute Myocardial Infarction. <i>Artificial Organs</i> , 2018, 42, E114-E126.	1.0	11
29	Fabrication and physicochemical characterization of a novel magnetic nanocomposite scaffold: Electromagnetic field effect on biological properties. <i>Materials Science and Engineering C</i> , 2020, 116, 111222.	3.8	11
30	Comparison of osteogenic medium and uniaxial strain on differentiation of endometrial stem cells. <i>Dental Research Journal</i> , 2013, 10, 190.	0.2	11
31	EFFECTS OF SHORT-TERM CYCLIC HYDROSTATIC PRESSURE ON INITIATING AND ENHANCING THE EXPRESSION OF CHONDROGENIC GENES IN HUMAN ADIPOSE-DERIVED MESENCHYMAL STEM CELLS. <i>Journal of Mechanics in Medicine and Biology</i> , 2014, 14, 1450054.	0.3	10
32	Mathematical modeling of cell growth in a 3D scaffold and validation of static and dynamic cultures. <i>Engineering in Life Sciences</i> , 2016, 16, 290-298.	2.0	10
33	Computational simulation of static/cyclic cell stimulations to investigate mechanical modulation of an individual mesenchymal stem cell using confocal microscopy. <i>Materials Science and Engineering C</i> , 2017, 70, 494-504.	3.8	10
34	Delivery of molecular cargoes in normal and cancer cell lines using non-viral delivery systems. <i>Biotechnology Letters</i> , 2018, 40, 923-931.	1.1	10
35	Morphology and contractile gene expression of adipose-derived mesenchymal stem cells in response to short-term cyclic uniaxial strain and TGF- β 1. <i>Biomedizinische Technik</i> , 2018, 63, 317-326.	0.9	10
36	Evaluation of alginate modification effect on cell-matrix interaction, mechanotransduction and chondrogenesis of encapsulated MSCs. <i>Cell and Tissue Research</i> , 2020, 381, 255-272.	1.5	10

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37	Topological remodeling of cultured endothelial cells by characterized cyclic strains. <i>MCB Molecular and Cellular Biomechanics</i> , 2007, 4, 189-99.	0.3	10
38	Efficacy of mechanical vibration in regulating mesenchymal stem cells gene expression. <i>In Vitro Cellular and Developmental Biology - Animal</i> , 2019, 55, 387-394.	0.7	9
39	Residual stress distribution in a lamellar model of the arterial wall. <i>Journal of Medical Engineering and Technology</i> , 2010, 34, 422-428.	0.8	8
40	Stress phase angle regulates differentiation of human adipose-derived stem cells toward endothelial phenotype. <i>Progress in Biomaterials</i> , 2018, 7, 121-131.	1.8	8
41	Fluid-Structure Interactions Analysis of Shear-Induced Modulation of a Mesenchymal Stem Cell: An Image-Based Study. <i>Artificial Organs</i> , 2016, 40, 278-287.	1.0	7
42	Introduction of an efficient method for placenta decellularization with high potential to preserve ultrastructure and support cell attachment. <i>Artificial Organs</i> , 2022, 46, 375-386.	1.0	7
43	Preparation of Poly(vinyl alcohol)/Chitosan-Blended Hydrogels: Properties, & In Vitro Studies and Kinetic Evaluation. <i>Journal of Biomimetics, Biomaterials, and Tissue Engineering</i> , 0, 15, 63-72.	0.7	6
44	Comparative analysis of effects of cyclic uniaxial and equiaxial stretches on gene expression of human umbilical vein endothelial cells. <i>Cell Biology International</i> , 2015, 39, 741-749.	1.4	6
45	Numerical modelling of a spheroid living cell membrane under hydrostatic pressure. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2018, 2018, 083501.	0.9	6
46	Simultaneous effects of hydrostatic pressure and dexamethasone release from electrospun fibers on inflammation-induced chondrocytes. <i>European Polymer Journal</i> , 2019, 118, 244-253.	2.6	6
47	Combination of Mechanical and Chemical Methods Improves Gene Delivery in Cell-based HIV Vaccines. <i>Current Drug Delivery</i> , 2019, 16, 818-828.	0.8	6
48	Enhanced gene delivery in tumor cells using chemical carriers and mechanical loadings. <i>PLoS ONE</i> , 2018, 13, e0209199.	1.1	5
49	Evaluation of Mechanical and Chemical Stimulations on Osteocalcin and Runx2 Expression in Mesenchymal Stem Cells. <i>MCB Molecular and Cellular Biomechanics</i> , 2015, 12, 197-213.	0.3	5
50	Effect of Extremely Low Frequency Electromagnetic Field on MAP2 and Nestin Gene Expression of Hair Follicle Dermal Papilla Cells. <i>International Journal of Artificial Organs</i> , 2016, 39, 294-299.	0.7	4
51	Biocompatibility and bioactivity behaviour of coelectrospun silk fibroin-hydroxyapatite nanofibres using formic acid. <i>Micro and Nano Letters</i> , 2018, 13, 709-713.	0.6	4
52	Essential Functionality of Endometrial and Adipose Stem Cells in Normal and Mechanically Motivated Conditions. <i>Journal of Biomaterials and Tissue Engineering</i> , 2013, 3, 581-588.	0.0	4
53	Relationship Between Cell Compatibility and Elastic Modulus of Silicone Rubber/Organoclay Nanobiocomposites. <i>Jundishapur Journal of Natural Pharmaceutical Products</i> , 2012, 7, 65-70.	0.3	4
54	Effects of stretching on molecular transfer from cell membrane by forming pores. <i>Soft Materials</i> , 2019, 17, 391-399.	0.8	3

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55	Development of Delivery Systems Enhances the Potency of Cell-Based HIV-1 Therapeutic Vaccine Candidates. <i>Journal of Immunology Research</i> , 2021, 2021, 1-12.	0.9	3
56	The Influence of Cyclic and Uniform Shear Stresses Concurrent with Cyclic Stretch on the Gene Expression of Human Umbilical Vein Endothelial Cells. <i>Journal of Biomaterials and Tissue Engineering</i> , 2013, 3, 673-678.	0.0	3
57	Effect of hydrostatic pressure amplitude on chondrogenic differentiation of human adipose derived mesenchymal stem cells. , 2012, , .		2
58	CFD study of mesenchymal stem cells in fluid flow. , 2013, , .		2
59	Relationship between cell compatibility and elastic modulus of silicone rubber/organoclay nanobiocomposites. <i>Jundishapur Journal of Natural Pharmaceutical Products</i> , 2012, 7, 65-70.	0.3	2
60	Mechanical modulation study of an adipose-derived mesenchymal stem cell under pressure loading: A numerical investigation on cell engineering. , 2014, , .		1
61	Effect of equiaxial cyclic strain on cardiomyogenic induction in mesenchymal stem cells. <i>Progress in Biomaterials</i> , 2018, 7, 279-288.	1.8	1
62	Relationship between Cell Compatibility and Elastic Modulus of Silicone Rubber/Organoclay Nanobiocomposites. <i>Jundishapur Journal of Natural Pharmaceutical Products</i> , 2012, 7, 65-70.	0.3	1
63	Effect of Tensile Strain and Shear Stress on the Differentiation of Human Mesenchymal Stem Cells into Endothelial Cells. , 2012, , .		0
64	Finite Element Analysis of the Effects of Microgravity Conditions on Shear-Induced Modulation of Stem Cells. , 2021, , .		0