Mohsen Janmaleki

List of Publications by Year
in descending order

41 papers	1,178 citations	361413 20 h-index	377865 34 g-index
41 all docs	41 docs citations	41 times ranked	2211 citing authors

#	Article	IF	Citations
1	Covalently crossâ€linked hydrogels: Mechanisms of nonlinear viscoelasticity. Canadian Journal of Chemical Engineering, 2022, 100, 3227-3239.	1.7	8
2	Viscoelastic behavior of covalently crosslinked hydrogels under large shear deformations: An approach to eliminate wall slip. Physics of Fluids, 2021, 33, .	4.0	20
3	A tuned gelatin methacryloyl (GelMA) hydrogel facilitates myelination of dorsal root ganglia neurons in vitro. Materials Science and Engineering C, 2021, 126, 112131.	7.3	15
4	Engineering a 3D human intracranial aneurysm model using liquid-assisted injection molding and tuned hydrogels. Acta Biomaterialia, 2021, 136, 266-278.	8.3	2
5	Acoustic subsurface-atomic force microscopy: Three-dimensional imaging at the nanoscale. Journal of Applied Physics, 2021, 129, .	2.5	16
6	Role of temperature on bio-printability of gelatin methacryloyl bioink in two-step cross-linking strategy for tissue engineering applications. Biomedical Materials (Bristol), 2021, 16, 015021.	3.3	30
7	Scalable microfabrication of drug-loaded coreâ€“shell tablets from a single erodible polymer with adjustable release profiles. Biofabrication, 2020, 12, 045007.	7.1	5
8	Effect of cell imprinting on viability and drug susceptibility of breast cancer cells to doxorubicin. Acta Biomaterialia, 2020, 113, 119-129.	8.3	13
9	Reproducible and Scalable Generation of Multilayer Nanocomposite Constructs for Ultrasensitive Nanobiosensing. Advanced Materials Technologies, 2019, 4, 1900478.	5.8	15
10	Sandwich-structured nanoparticles-grafted functionalized graphene based 3D nanocomposites for high-performance biosensors to detect ascorbic acid biomolecule. Scientific Reports, 2019, 9, 1226.	3.3	66
11	In vitro models and systems for evaluating the dynamics of drug delivery to the healthy and diseased brain. Journal of Controlled Release, 2018, 273, 108-130.	9.9	43
12	Cyclic Stretch Effects on Adipose-Derived Stem Cell Stiffness, Morphology and Smooth Muscle Cell Gene Expression. Tissue Engineering and Regenerative Medicine, 2017, 14, 279-286.	3.7	11
13	An electrical bio-chip to transfer and detect electromagnetic stimulation on the cells based on vertically aligned carbon nanotubes. Materials Science and Engineering C, 2017, 70, 681-688.	7.3	5
14	Microfluidic integrated acoustic waving for manipulation of cells and molecules. Biosensors and Bioelectronics, 2016, 85, 714-725.	10.1	74
15	Organâ€Onâ€Chip Platforms: Skin Diseases Modeling using Combined Tissue Engineering and Microfluidic Technologies (Adv. Healthcare Mater. 19/2016). Advanced Healthcare Materials, 2016, 5, 2454-2454.	7.6	2
16	Dual effect of F-actin targeted carrier combined with antimitotic drug on aggressive colorectal cancer cytoskeleton: Allying dissimilar cell cytoskeleton disrupting mechanisms. International Journal of Pharmaceutics, 2016, 513, 464-472.	5.2	13
17	Effects of uniaxial cyclic stretch loading on morphology of adipose derived stem cells. Tissue Engineering and Regenerative Medicine, 2016, 13, 396-402.	3.7	8
18	Skin Diseases Modeling using Combined Tissue Engineering and Microfluidic Technologies. Advanced Healthcare Materials, 2016, 5, 2459-2480.	7.6	59

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19	Microfluidic Manipulation of Core/Shell Nanoparticles for Oral Delivery of Chemotherapeutics: A New Treatment Approach for Colorectal Cancer. Advanced Materials, 2016, 28, 4134-4141.	21.0	74
20	Incorporation of chitosan nanoparticles into silk fibroin-based porous scaffolds: Chondrogenic differentiation of stem cells. International Journal of Polymeric Materials and Polymeric Biomaterials, 2016, 65, 202-209.	3.4	19
21	Nanofiber formation in the presence of an external magnetic field in electrospinning. Journal of Polymer Engineering, 2015, 35, 587-596.	1.4	8
22	Prediction of neural differentiation fate of rat mesenchymal stem cells by quantitative morphological analyses using image processing techniques. Biomedizinische Technik, 2015, 60, 57-64.	0.8	0
23	Monitoring the spreading stage of lung cells by silicon nanowire electrical cell impedance sensor for cancer detection purposes. Biosensors and Bioelectronics, 2015, 68, 577-585.	10.1	42
24	Acoustic wave based biosensor to study electroacoustic based detection of progressive (SW-48) colon cancer cells from primary (HT-29) cells. Sensors and Actuators A: Physical, 2015, 233, 169-175.	4.1	3
25	Effects of hypergravity on adipose-derived stem cell morphology, mechanical property and proliferation. Biochemical and Biophysical Research Communications, 2015, 464, 473-479.	2.1	20
26	Effects of an antimitotic drug on mechanical behaviours of the cytoskeleton in distinct grades of colon cancer cells. Journal of Biomechanics, 2015, 48, 1172-1178.	2.1	26
27	A single-cell correlative nanoelectromechanosensing approach to detect cancerous transformation: monitoring the function of F-actin microfilaments in the modulation of the ion channel activity. Nanoscale, 2015, 7, 1879-1887.	5.6	13
28	Evaluation of Mechanical Properties of Human Mesenchymal Stem Cells During Differentiation to Smooth Muscle Cells. Annals of Biomedical Engineering, 2014, 42, 1373-1380.	2.5	26
29	Silicon nanograss based impedance biosensor for label free detection of rare metastatic cells among primary cancerous colon cells, suitable for more accurate cancer staging. Biosensors and Bioelectronics, 2014, 59, 151-159.	10.1	36
30	Mechanical properties of cancer cytoskeleton depend on actin filaments to microtubules content: Investigating different grades of colon cancer cell lines. Journal of Biomechanics, 2014, 47, 373-379.	2.1	110
31	Cell membrane electrical charge investigations by silicon nanowires incorporated field effect transistor (SiNWFET) suitable in cancer research. RSC Advances, 2014, 4, 7425.	3.6	22
32	Coated urinary catheter by PEG/PVA/gentamicin with drug delivery capability against hospital infection. Iranian Polymer Journal (English Edition), 2013, 22, 75-83.	2.4	12
33	Polyphenols attached graphene nanosheets for high efficiency NIR mediated photodestruction of cancer cells. Materials Science and Engineering C, 2013, 33, 1498-1505.	7.3	64
34	Influence of Cyclic Stretch on Mechanical Properties of Endothelial Cells. Experimental Mechanics, 2013, 53, 1291-1298.	2.0	19
35	Single-cell resolution diagnosis of cancer cells by carbon nanotube electrical spectroscopy. Nanoscale, 2013, 5, 3421.	5.6	48
36	Synthesis and characterization of thiolated carboxymethyl chitosan-graft-cyclodextrin nanoparticles as a drug delivery vehicle for albendazole. Journal of Materials Science: Materials in Medicine, 2013, 24, 1939-1949.	3.6	34

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37	A vertically aligned carbon nanotube-based impedance sensing biosensor for rapid and high sensitive detection of cancer cells. Lab on A Chip, 2012, 12, 1183.	6.0	82
38	Vertically aligned multiwall-carbon nanotubes to preferentially entrap highly metastatic cancerous cells. Carbon, 2012, 50, 2010-2017.	10.3	32
39	Effect of uniaxial stretch on morphology and cytoskeleton of human mesenchymal stem cells: static vs. dynamic loading. Biomedizinische Technik, 2011, 56, 259-265.	0.8	27
40	Chitosan microparticles loaded with exotoxin A subunit antigen for intranasal vaccination against Pseudomonas aeruginosa: An in vitro study. Carbohydrate Polymers, 2011, 83, 1854-1861.	10.2	30
41	APPLICATION OF ARTIFICIAL NEURAL NETWORKS IN CONTROLLED DRUG DELIVERY SYSTEMS. Applied Artificial Intelligence, 2010, 24, 807-820.	3.2	26