

Mohsen Janmaleki

List of Publications by Year in descending order

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Version: 2024-02-01

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 | Mechanical properties of cancer cytoskeleton depend on actin filaments to microtubules content: Investigating different grades of colon cancer cell lines. <i>Journal of Biomechanics</i> , 2014, 47, 373-379. | 2.1 | 110 |
| 2 | A vertically aligned carbon nanotube-based impedance sensing biosensor for rapid and high sensitive detection of cancer cells. <i>Lab on A Chip</i> , 2012, 12, 1183. | 6.0 | 82 |
| 3 | Microfluidic integrated acoustic waving for manipulation of cells and molecules. <i>Biosensors and Bioelectronics</i> , 2016, 85, 714-725. | 10.1 | 74 |
| 4 | Microfluidic Manipulation of Core/Shell Nanoparticles for Oral Delivery of Chemotherapeutics: A New Treatment Approach for Colorectal Cancer. <i>Advanced Materials</i> , 2016, 28, 4134-4141. | 21.0 | 74 |
| 5 | Sandwich-structured nanoparticles-grafted functionalized graphene based 3D nanocomposites for high-performance biosensors to detect ascorbic acid biomolecule. <i>Scientific Reports</i> , 2019, 9, 1226. | 3.3 | 66 |
| 6 | Polyphenols attached graphene nanosheets for high efficiency NIR mediated photodestruction of cancer cells. <i>Materials Science and Engineering C</i> , 2013, 33, 1498-1505. | 7.3 | 64 |
| 7 | Skin Diseases Modeling using Combined Tissue Engineering and Microfluidic Technologies. <i>Advanced Healthcare Materials</i> , 2016, 5, 2459-2480. | 7.6 | 59 |
| 8 | Single-cell resolution diagnosis of cancer cells by carbon nanotube electrical spectroscopy. <i>Nanoscale</i> , 2013, 5, 3421. | 5.6 | 48 |
| 9 | In vitro models and systems for evaluating the dynamics of drug delivery to the healthy and diseased brain. <i>Journal of Controlled Release</i> , 2018, 273, 108-130. | 9.9 | 43 |
| 10 | Monitoring the spreading stage of lung cells by silicon nanowire electrical cell impedance sensor for cancer detection purposes. <i>Biosensors and Bioelectronics</i> , 2015, 68, 577-585. | 10.1 | 42 |
| 11 | Silicon nanograss based impedance biosensor for label free detection of rare metastatic cells among primary cancerous colon cells, suitable for more accurate cancer staging. <i>Biosensors and Bioelectronics</i> , 2014, 59, 151-159. | 10.1 | 36 |
| 12 | Synthesis and characterization of thiolated carboxymethyl chitosan-graft-cyclodextrin nanoparticles as a drug delivery vehicle for albendazole. <i>Journal of Materials Science: Materials in Medicine</i> , 2013, 24, 1939-1949. | 3.6 | 34 |
| 13 | Vertically aligned multiwall-carbon nanotubes to preferentially entrap highly metastatic cancerous cells. <i>Carbon</i> , 2012, 50, 2010-2017. | 10.3 | 32 |
| 14 | Chitosan microparticles loaded with exotoxin A subunit antigen for intranasal vaccination against <i>Pseudomonas aeruginosa</i> : An in vitro study. <i>Carbohydrate Polymers</i> , 2011, 83, 1854-1861. | 10.2 | 30 |
| 15 | Role of temperature on bio-printability of gelatin methacryloyl bioink in two-step cross-linking strategy for tissue engineering applications. <i>Biomedical Materials (Bristol)</i> , 2021, 16, 015021. | 3.3 | 30 |
| 16 | Effect of uniaxial stretch on morphology and cytoskeleton of human mesenchymal stem cells: static vs. dynamic loading. <i>Biomedizinische Technik</i> , 2011, 56, 259-265. | 0.8 | 27 |
| 17 | APPLICATION OF ARTIFICIAL NEURAL NETWORKS IN CONTROLLED DRUG DELIVERY SYSTEMS. <i>Applied Artificial Intelligence</i> , 2010, 24, 807-820. | 3.2 | 26 |
| 18 | Evaluation of Mechanical Properties of Human Mesenchymal Stem Cells During Differentiation to Smooth Muscle Cells. <i>Annals of Biomedical Engineering</i> , 2014, 42, 1373-1380. | 2.5 | 26 |

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|----|--|-----|-----------|
| 19 | Effects of an antimetabolic drug on mechanical behaviours of the cytoskeleton in distinct grades of colon cancer cells. <i>Journal of Biomechanics</i> , 2015, 48, 1172-1178. | 2.1 | 26 |
| 20 | Cell membrane electrical charge investigations by silicon nanowires incorporated field effect transistor (SiNW-FET) suitable in cancer research. <i>RSC Advances</i> , 2014, 4, 7425. | 3.6 | 22 |
| 21 | Effects of hypergravity on adipose-derived stem cell morphology, mechanical property and proliferation. <i>Biochemical and Biophysical Research Communications</i> , 2015, 464, 473-479. | 2.1 | 20 |
| 22 | Viscoelastic behavior of covalently crosslinked hydrogels under large shear deformations: An approach to eliminate wall slip. <i>Physics of Fluids</i> , 2021, 33, . | 4.0 | 20 |
| 23 | Influence of Cyclic Stretch on Mechanical Properties of Endothelial Cells. <i>Experimental Mechanics</i> , 2013, 53, 1291-1298. | 2.0 | 19 |
| 24 | Incorporation of chitosan nanoparticles into silk fibroin-based porous scaffolds: Chondrogenic differentiation of stem cells. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2016, 65, 202-209. | 3.4 | 19 |
| 25 | Acoustic subsurface-atomic force microscopy: Three-dimensional imaging at the nanoscale. <i>Journal of Applied Physics</i> , 2021, 129, . | 2.5 | 16 |
| 26 | Reproducible and Scalable Generation of Multilayer Nanocomposite Constructs for Ultrasensitive Nanobiosensing. <i>Advanced Materials Technologies</i> , 2019, 4, 1900478. | 5.8 | 15 |
| 27 | A tuned gelatin methacryloyl (GelMA) hydrogel facilitates myelination of dorsal root ganglia neurons in vitro. <i>Materials Science and Engineering C</i> , 2021, 126, 112131. | 7.3 | 15 |
| 28 | 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. <i>Nanoscale</i> , 2015, 7, 1879-1887. | 5.6 | 13 |
| 29 | Dual effect of F-actin targeted carrier combined with antimetabolic drug on aggressive colorectal cancer cytoskeleton: Allying dissimilar cell cytoskeleton disrupting mechanisms. <i>International Journal of Pharmaceutics</i> , 2016, 513, 464-472. | 5.2 | 13 |
| 30 | Effect of cell imprinting on viability and drug susceptibility of breast cancer cells to doxorubicin. <i>Acta Biomaterialia</i> , 2020, 113, 119-129. | 8.3 | 13 |
| 31 | Coated urinary catheter by PEG/PVA/gentamicin with drug delivery capability against hospital infection. <i>Iranian Polymer Journal (English Edition)</i> , 2013, 22, 75-83. | 2.4 | 12 |
| 32 | Cyclic Stretch Effects on Adipose-Derived Stem Cell Stiffness, Morphology and Smooth Muscle Cell Gene Expression. <i>Tissue Engineering and Regenerative Medicine</i> , 2017, 14, 279-286. | 3.7 | 11 |
| 33 | Nanofiber formation in the presence of an external magnetic field in electrospinning. <i>Journal of Polymer Engineering</i> , 2015, 35, 587-596. | 1.4 | 8 |
| 34 | Effects of uniaxial cyclic stretch loading on morphology of adipose derived stem cells. <i>Tissue Engineering and Regenerative Medicine</i> , 2016, 13, 396-402. | 3.7 | 8 |
| 35 | Covalently crosslinked hydrogels: Mechanisms of nonlinear viscoelasticity. <i>Canadian Journal of Chemical Engineering</i> , 2022, 100, 3227-3239. | 1.7 | 8 |
| 36 | An electrical bio-chip to transfer and detect electromagnetic stimulation on the cells based on vertically aligned carbon nanotubes. <i>Materials Science and Engineering C</i> , 2017, 70, 681-688. | 7.3 | 5 |

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|----|--|-----|-----------|
| 37 | Scalable microfabrication of drug-loaded core-shell tablets from a single erodible polymer with adjustable release profiles. <i>Biofabrication</i> , 2020, 12, 045007. | 7.1 | 5 |
| 38 | Acoustic wave based biosensor to study electroacoustic based detection of progressive (SW-48) colon cancer cells from primary (HT-29) cells. <i>Sensors and Actuators A: Physical</i> , 2015, 233, 169-175. | 4.1 | 3 |
| 39 | Organ-on-a-Chip Platforms: Skin Diseases Modeling using Combined Tissue Engineering and Microfluidic Technologies (<i>Adv. Healthcare Mater.</i> 19/2016). <i>Advanced Healthcare Materials</i> , 2016, 5, 2454-2454. | 7.6 | 2 |
| 40 | Engineering a 3D human intracranial aneurysm model using liquid-assisted injection molding and tuned hydrogels. <i>Acta Biomaterialia</i> , 2021, 136, 266-278. | 8.3 | 2 |
| 41 | Prediction of neural differentiation fate of rat mesenchymal stem cells by quantitative morphological analyses using image processing techniques. <i>Biomedizinische Technik</i> , 2015, 60, 57-64. | 0.8 | 0 |