

Amir K Miri

List of Publications by Year in descending order

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Version: 2024-02-01

59
papers

2,701
citations

257450

24
h-index

182427

51
g-index

60
all docs

60
docs citations

60
times ranked

3620
citing authors

#	ARTICLE	IF	CITATIONS
1	Multi-material digital light processing bioprinting of hydrogel-based microfluidic chips. <i>Biofabrication</i> , 2022, 14, 014103.	7.1	42
2	Bioink Rheology Regulates Stability of Bioprinted Strands. <i>Journal of Biomechanical Engineering</i> , 2022, , .	1.3	0
3	Selection of natural biomaterials for <sc>microtissue</sc> and <sc>organ-on-a-chip</sc> models. <i>Journal of Biomedical Materials Research - Part A</i> , 2022, 110, 1147-1165.	4.0	11
4	Digital Light Processing Bioprinting Advances for Microtissue Models. <i>ACS Biomaterials Science and Engineering</i> , 2022, 8, 1381-1395.	5.2	33
5	Design and application of ion concentration polarization for preconcentrating charged analytes. <i>Physics of Fluids</i> , 2021, 33, .	4.0	14
6	Survival and Proliferation under Severely Hypoxic Microenvironments Using Cell-Laden Oxygenating Hydrogels. <i>Journal of Functional Biomaterials</i> , 2021, 12, 30.	4.4	7
7	Cancer Stem Cells in Tumor Modeling: Challenges and Future Directions. <i>Advanced NanoBiomed Research</i> , 2021, 1, 2100017.	3.6	13
8	Comprehensive in vitro studies of novel sol-gel-derived Zr ⁴⁺ /Zn ²⁺ co-substituted bioactive glass with enhanced biological properties for bone healing. <i>Journal of Non-Crystalline Solids</i> , 2021, 566, 120887.	3.1	13
9	Structural and in vitro biological evaluation of sol-gel derived multifunctional Ti ⁴⁺ /Sr ²⁺ co-doped bioactive glass with enhanced properties for bone healing. <i>Ceramics International</i> , 2021, 47, 29451-29462.	4.8	13
10	Layered double hydroxide-based nanocomposite scaffolds in tissue engineering applications. <i>RSC Advances</i> , 2021, 11, 30237-30252.	3.6	17
11	Multi-Organs-on-Chips for Testing Small-Molecule Drugs: Challenges and Perspectives. <i>Pharmaceutics</i> , 2021, 13, 1657.	4.5	14
12	Cell encapsulation in gelatin bioink impairs 3D bioprinting resolution. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2020, 103, 103524.	3.1	44
13	3D Printing metamaterials towards tissue engineering. <i>Applied Materials Today</i> , 2020, 20, 100752.	4.3	62
14	Multifactorial analysis of ion concentration polarization for microfluidic preconcentrating applications using response surface method. <i>Physics of Fluids</i> , 2020, 32, 072012.	4.0	7
15	Multiscale bioprinting of vascularized models. <i>Biomaterials</i> , 2019, 198, 204-216.	11.4	191
16	Bioprinters for organs-on-chips. <i>Biofabrication</i> , 2019, 11, 042002.	7.1	71
17	Effective bioprinting resolution in tissue model fabrication. <i>Lab on A Chip</i> , 2019, 19, 2019-2037.	6.0	148
18	Cardiac Fibrotic Remodeling on a Chip with Dynamic Mechanical Stimulation. <i>Advanced Healthcare Materials</i> , 2019, 8, e1801146.	7.6	54

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19	Coaxial extrusion bioprinting of 3D microfibrinous constructs with cell-favorable gelatin methacryloyl microenvironments. <i>Biofabrication</i> , 2018, 10, 024102.	7.1	219
20	Dissolvable Stents: 3D-Printed Sugar-Based Stents Facilitating Vascular Anastomosis (<i>Adv. Healthcare</i>) Tj ETQq0 0 0 rgBT /Ovrlock 10 T	7.6	10
21	Bioprinting: Aqueous Two-Phase Emulsion Bioink-Enabled 3D Bioprinting of Porous Hydrogels (<i>Adv. Tj ETQq1 1,0.784314 rgBT /Ovrlock</i>	21.0	14
22	Pathology-on-a-Chip: Mimicking Human Pathophysiology in Organ-on-Chip Devices (<i>Adv. Biosys. 10/2018</i>), <i>Advanced Biology</i> , 2018, 2, 1870092.	3.0	1
23	3D-Printed Sugar-Based Stents Facilitating Vascular Anastomosis. <i>Advanced Healthcare Materials</i> , 2018, 7, e1800702.	7.6	30
24	Aqueous Two-Phase Emulsion Bioink-Enabled 3D Bioprinting of Porous Hydrogels. <i>Advanced Materials</i> , 2018, 30, e1805460.	21.0	217
25	Bioprinting: Microfluidics-Enabled Multimaterial Maskless Stereolithographic Bioprinting (<i>Adv. Mater. Tj ETQq1 1,0.784314 rgBT /Ovrlock</i>	21.0	14
26	Permeability mapping of gelatin methacryloyl hydrogels. <i>Acta Biomaterialia</i> , 2018, 77, 38-47.	8.3	65
27	Microfluidics-Enabled Multimaterial Maskless Stereolithographic Bioprinting. <i>Advanced Materials</i> , 2018, 30, e1800242.	21.0	277
28	Mimicking Human Pathophysiology in Organ-on-Chip Devices. <i>Advanced Biology</i> , 2018, 2, 1800109.	3.0	48
29	Bioprinting: Rapid Continuous Multimaterial Extrusion Bioprinting (<i>Adv. Mater. 3/2017</i>). <i>Advanced Materials</i> , 2017, 29, .	21.0	9
30	Rapid Continuous Multimaterial Extrusion Bioprinting. <i>Advanced Materials</i> , 2017, 29, 1604630.	21.0	275
31	Development and characterization of a bioglass/chitosan composite as an injectable bone substitute. <i>Carbohydrate Polymers</i> , 2017, 157, 1261-1271.	10.2	50
32	A Note on the Role of Spatial Scale in Imaging Collagen Hydrogels. <i>Journal of Nanoscience and Nanotechnology</i> , 2017, 17, 5124-5129.	0.9	1
33	Mechanical characterization of nanoclay-filled PDMS thin films. <i>Polymer Testing</i> , 2016, 52, 85-88.	4.8	19
34	A gel aspiration-ejection system for the controlled production and delivery of injectable dense collagen scaffolds. <i>Biofabrication</i> , 2016, 8, 015018.	7.1	28
35	Bioprinted thrombosis-on-a-chip. <i>Lab on A Chip</i> , 2016, 16, 4097-4105.	6.0	183
36	Ectopic bone formation in rapidly fabricated acellular injectable dense collagen-Bioglass hybrid scaffolds via gel aspiration-ejection. <i>Biomaterials</i> , 2016, 85, 128-141.	11.4	68

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37	Fracture Toughness of Vocal Fold Tissue: A Preliminary Study. <i>Journal of Voice</i> , 2016, 30, 251-254.	1.5	6
38	Fabrication and characterization of zeinâ€bioactive glass scaffolds. <i>Bioinspired, Biomimetic and Nanobiomaterials</i> , 2015, 4, 73-78.	0.9	10
39	Microstructural and mechanical characterization of scarred vocal folds. <i>Journal of Biomechanics</i> , 2015, 48, 708-711.	2.1	17
40	Study of extracellular matrix in vocal fold biomechanics using a two-phase model. <i>Biomechanics and Modeling in Mechanobiology</i> , 2015, 14, 49-57.	2.8	11
41	Nanoscale viscoelasticity of extracellular matrix proteins in soft tissues: A multiscale approach. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2014, 30, 196-204.	3.1	26
42	Mechanical Characterization of Vocal Fold Tissue: A Review Study. <i>Journal of Voice</i> , 2014, 28, 657-667.	1.5	77
43	Determination of the elastic properties of rabbit vocal fold tissue using uniaxial tensile testing and a tailored finite element model. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2014, 39, 366-374.	3.1	6
44	Determination of Strain Field on the Superior Surface of Excised Larynx Vocal Folds Using DIC. <i>Journal of Voice</i> , 2013, 27, 659-667.	1.5	20
45	Microstructural characterization of vocal folds toward a strain-energy model of collagen remodeling. <i>Acta Biomaterialia</i> , 2013, 9, 7957-7967.	8.3	35
46	Indentation of poroviscoelastic vocal fold tissue using an atomic force microscope. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2013, 28, 383-392.	3.1	26
47	Imaging the bipolarity of myosin filaments with Interferometric Second Harmonic Generation microscopy. <i>Biomedical Optics Express</i> , 2013, 4, 2078.	2.9	23
48	Determination of the stresses and strain on the superior surface of excised porcine larynges during phonation using digital image correlation. <i>Proceedings of Meetings on Acoustics</i> , 2013, , .	0.3	3
49	Quantitative assessment of the anisotropy of vocal fold tissue using shear rheometry and traction testing. <i>Journal of Biomechanics</i> , 2012, 45, 2943-2946.	2.1	21
50	Effects of Dehydration on the Viscoelastic Properties of Vocal Folds in Large Deformations. <i>Journal of Voice</i> , 2012, 26, 688-697.	1.5	34
51	Nonlinear laser scanning microscopy of human vocal folds. <i>Laryngoscope</i> , 2012, 122, 356-363.	2.0	32
52	Out-of-plane stresses in composite shell panels: layerwise and elasticity solutions. <i>Acta Mechanica</i> , 2011, 220, 15-32.	2.1	9
53	Interlaminar stresses in antisymmetric angle-ply cylindrical shell panels. <i>Composite Structures</i> , 2011, 93, 419-429.	5.8	11
54	Acoustic Radiation Force on a Spherical Contrast Agent Shell Near a Vessel Porous Wall â€ Theory. <i>Ultrasound in Medicine and Biology</i> , 2011, 37, 301-311.	1.5	32

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55	Boundary-layer hygrothermal stresses in laminated, composite, circular, cylindrical shell panels. <i>Archive of Applied Mechanics</i> , 2010, 80, 413-440.	2.2	19
56	Seismic isolation effect of lined circular tunnels with damping treatments. <i>Earthquake Engineering and Engineering Vibration</i> , 2008, 7, 305-319.	2.3	23
57	Ultrasonic Energy Transfer and Stress Concentrations in a Single-Fiber Composite with Absorbing Interface Layer. <i>Journal of Thermoplastic Composite Materials</i> , 2008, 21, 473-509.	4.2	1
58	Dynamic interaction of an eccentric multipole cylindrical radiator suspended in a fluid-filled borehole within a poroelastic formation. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2007, 23, 399-408.	3.4	2
59	Effect of Inter-Fibre Distance on Energy Transfer in Unidirectional Composites Containing Ultrasonic Waves. <i>Advanced Composites Letters</i> , 2006, 15, 096369350601500.	1.3	1