

Rachelle N Palchesko

List of Publications by Year in descending order

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Version: 2024-02-01

16
papers

2,236
citations

840585

11
h-index

1125617

13
g-index

16
all docs

16
docs citations

16
times ranked

3895
citing authors

#	ARTICLE	IF	CITATIONS
1	Three-dimensional printing of complex biological structures by freeform reversible embedding of suspended hydrogels. <i>Science Advances</i> , 2015, 1, e1500758.	4.7	1,306
2	Development of Polydimethylsiloxane Substrates with Tunable Elastic Modulus to Study Cell Mechanobiology in Muscle and Nerve. <i>PLoS ONE</i> , 2012, 7, e51499.	1.1	433
3	FRESH 3D Bioprinting a Full-Size Model of the Human Heart. <i>ACS Biomaterials Science and Engineering</i> , 2020, 6, 6453-6459.	2.6	163
4	In Vitro Expansion of Corneal Endothelial Cells on Biomimetic Substrates. <i>Scientific Reports</i> , 2015, 5, 7955.	1.6	71
5	Natural Biomaterials for Corneal Tissue Engineering, Repair, and Regeneration. <i>Advanced Healthcare Materials</i> , 2018, 7, e1701434.	3.9	66
6	Dynamic loading of human engineered heart tissue enhances contractile function and drives a desmosome-linked disease phenotype. <i>Science Translational Medicine</i> , 2021, 13, .	5.8	48
7	A novel calcium aluminate-melatonin scaffold enhances bone regeneration within a calvarial defect. <i>Journal of Pineal Research</i> , 2012, 53, 206-218.	3.4	46
8	Engineered Basement Membranes for Regenerating the Corneal Endothelium. <i>Advanced Healthcare Materials</i> , 2016, 5, 2942-2950.	3.9	32
9	Shrink Wrapping Cells in a Defined Extracellular Matrix to Modulate the Chemo-Mechanical Microenvironment. <i>Cellular and Molecular Bioengineering</i> , 2014, 7, 355-368.	1.0	19
10	Increased osteoblast adhesion on physically optimized KRSR modified calcium aluminate. <i>Journal of Biomedical Materials Research - Part A</i> , 2012, 100A, 1229-1238.	2.1	15
11	Surface immobilization of active vancomycin on calcium aluminum oxide. <i>Materials Science and Engineering C</i> , 2011, 31, 637-642.	3.8	14
12	Co-immobilization of active antibiotics and cell adhesion peptides on calcium based biomaterials. <i>Materials Science and Engineering C</i> , 2014, 40, 398-406.	3.8	9
13	Nanofiber Biomaterials. , 2013, , 977-1010.		8
14	De novo lung biofabrication: clinical need, construction methods, and design strategy. <i>Translational Research</i> , 2019, 211, 1-18.	2.2	6
15	Chemically-Induced Cross-Linking of Peptidic Fibrils for Scaffolding Polymeric Particles and Macrophages. <i>Macromolecular Bioscience</i> , 2021, 21, e2000350.	2.1	0
16	In vivo engraftment into the cornea endothelium using extracellular matrix shrink-wrapped cells. <i>Communications Materials</i> , 2022, 3, .	2.9	0