James P K Armstrong

List of Publications by Citations

25 papers	1,281 citations	18 h-index	28 g-index
28 ext. papers	1,763 ext. citations	18.4 avg, IF	5.41 L-index

#	Paper	IF	Citations
25	Re-Engineering Extracellular Vesicles as Smart Nanoscale Therapeutics. *ACS Nano*, **2017**, 11, 69-83	16.7	286
24	3D Bioprinting Using a Templated Porous Bioink. *Advanced Healthcare Materials*, **2016**, 5, 1724-30	10.1	118
23	High-Resolution Patterned Cellular Constructs by Droplet-Based 3D Printing. *Scientific Reports*, **2017**, 7, 7004	4.9	105
22	Strategic design of extracellular vesicle drug delivery systems. *Advanced Drug Delivery Reviews*, **2018**, 130, 12-16	18.5	104
21	Engineering Anisotropic Muscle Tissue using Acoustic Cell Patterning. *Advanced Materials*, **2018**, 30, e1802649	24	92
20	Glycosylated superparamagnetic nanoparticle gradients for osteochondral tissue engineering. *Biomaterials*, **2018**, 176, 24-33	15.6	65
19	Tailoring Gelation Mechanisms for Advanced Hydrogel Applications. *Advanced Functional Materials*, **2020**, 30, 2002759	15.6	60
18	Expanding and optimizing 3D bioprinting capabilities using complementary network bioinks. *Science Advances*, **2020**, 6,	14.3	56
17	Artificial membrane-binding proteins stimulate oxygenation of stem cells during engineering of large cartilage tissue. *Nature Communications*, **2015**, 6, 7405	17.4	53
16	Void-free 3D Bioprinting for In-situ Endothelialization and Microfluidic Perfusion. *Advanced Functional Materials*, **2020**, 30, 1908349	15.6	50
15	Advances in the Fabrication of Biomaterials for Gradient Tissue Engineering. *Trends in Biotechnology*, **2021**, 39, 150-164	15.1	37
14	Buoyancy-Driven Gradients for Biomaterial Fabrication and Tissue Engineering. *Advanced Materials*, **2019**, 31, e1900291	24	36
13	Using Remote Fields for Complex Tissue Engineering. *Trends in Biotechnology*, **2020**, 38, 254-263	15.1	32
12	Assembling Living Building Blocks to Engineer Complex Tissues. *Advanced Functional Materials*, **2020**, 30, 1909009	15.6	31
11	Size-Tunable Nanoneedle Arrays for Influencing Stem Cell Morphology, Gene Expression, and Nuclear Membrane Curvature. *ACS Nano*, **2020**, 14, 5371-5381	16.7	22
10	Spatiotemporal quantification of acoustic cell patterning using Voronoi tessellation. *Lab on A Chip*, **2019**, 19, 562-573	7.2	20
9	Emerging Technologies for Tissue Engineering: From Gene Editing to Personalized Medicine. *Tissue Engineering - Part A*, **2019**, 25, 688-692	3.9	18

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8	Ultrasound-Triggered Enzymatic Gelation. *Advanced Materials*, **2020**, 32, e1905914	24	18
7	Cell paintballing using optically targeted coacervate microdroplets. *Chemical Science*, **2015**, 6, 6106-6111	9.4	16
6	Strategies for cell membrane functionalization. *Experimental Biology and Medicine*, **2016**, 241, 1098-106	3.7	15
5	In vivo biomolecular imaging of zebrafish embryos using confocal Raman spectroscopy. *Nature Communications*, **2020**, 11, 6172	17.4	13
4	Immunogold FIB-SEM: Combining Volumetric Ultrastructure Visualization with 3D Biomolecular Analysis to Dissect Cell-Environment Interactions. *Advanced Materials*, **2019**, 31, e1900488	24	12
3	Regulation of Scaffold Cell Adhesion Using Artificial Membrane Binding Proteins. *Macromolecular Bioscience*, **2017**, 17, 1600523	5.5	9
2	A blueprint for translational regenerative medicine. *Science Translational Medicine*, **2020**, 12,	17.5	7
1	Community-driven online initiatives have reshaped scientific engagement. *Nature Reviews Materials* , **2021**, 1-3	73.3	