

# James P K Armstrong

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Community-driven online initiatives have reshaped scientific engagement. <i>Nature Reviews Materials</i> , <b>2021</b> , 1-3	73.3	
24	Advances in the Fabrication of Biomaterials for Gradient Tissue Engineering. <i>Trends in Biotechnology</i> , <b>2021</b> , 39, 150-164	15.1	37
23	Assembling Living Building Blocks to Engineer Complex Tissues. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 1909009	15.6	31
22	Size-Tunable Nanoneedle Arrays for Influencing Stem Cell Morphology, Gene Expression, and Nuclear Membrane Curvature. <i>ACS Nano</i> , <b>2020</b> , 14, 5371-5381	16.7	22
21	Void-free 3D Bioprinting for In-situ Endothelialization and Microfluidic Perfusion. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 1908349	15.6	50
20	Ultrasound-Triggered Enzymatic Gelation. <i>Advanced Materials</i> , <b>2020</b> , 32, e1905914	24	18
19	A blueprint for translational regenerative medicine. <i>Science Translational Medicine</i> , <b>2020</b> , 12,	17.5	7
18	In vivo biomolecular imaging of zebrafish embryos using confocal Raman spectroscopy. <i>Nature Communications</i> , <b>2020</b> , 11, 6172	17.4	13
17	Expanding and optimizing 3D bioprinting capabilities using complementary network bioinks. <i>Science Advances</i> , <b>2020</b> , 6,	14.3	56
16	Tailoring Gelation Mechanisms for Advanced Hydrogel Applications. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 2002759	15.6	60
15	Using Remote Fields for Complex Tissue Engineering. <i>Trends in Biotechnology</i> , <b>2020</b> , 38, 254-263	15.1	32
14	Spatiotemporal quantification of acoustic cell patterning using Voronoi tessellation. <i>Lab on A Chip</i> , <b>2019</b> , 19, 562-573	7.2	20
13	Immunogold FIB-SEM: Combining Volumetric Ultrastructure Visualization with 3D Biomolecular Analysis to Dissect Cell-Environment Interactions. <i>Advanced Materials</i> , <b>2019</b> , 31, e1900488	24	12
12	Buoyancy-Driven Gradients for Biomaterial Fabrication and Tissue Engineering. <i>Advanced Materials</i> , <b>2019</b> , 31, e1900291	24	36
11	Emerging Technologies for Tissue Engineering: From Gene Editing to Personalized Medicine. <i>Tissue Engineering - Part A</i> , <b>2019</b> , 25, 688-692	3.9	18
10	Engineering Anisotropic Muscle Tissue using Acoustic Cell Patterning. <i>Advanced Materials</i> , <b>2018</b> , 30, e1802649	24.92	649
9	Glycosylated superparamagnetic nanoparticle gradients for osteochondral tissue engineering. <i>Biomaterials</i> , <b>2018</b> , 176, 24-33	15.6	65

8	Strategic design of extracellular vesicle drug delivery systems. <i>Advanced Drug Delivery Reviews</i> , <b>2018</b> , 130, 12-16	18.5	104
7	Re-Engineering Extracellular Vesicles as Smart Nanoscale Therapeutics. <i>ACS Nano</i> , <b>2017</b> , 11, 69-83	16.7	286
6	Regulation of Scaffold Cell Adhesion Using Artificial Membrane Binding Proteins. <i>Macromolecular Bioscience</i> , <b>2017</b> , 17, 1600523	5.5	9
5	High-Resolution Patterned Cellular Constructs by Droplet-Based 3D Printing. <i>Scientific Reports</i> , <b>2017</b> , 7, 7004	4.9	105
4	3D Bioprinting Using a Templated Porous Bioink. <i>Advanced Healthcare Materials</i> , <b>2016</b> , 5, 1724-30	10.1	118
3	Strategies for cell membrane functionalization. <i>Experimental Biology and Medicine</i> , <b>2016</b> , 241, 1098-106	3.7	15
2	Artificial membrane-binding proteins stimulate oxygenation of stem cells during engineering of large cartilage tissue. <i>Nature Communications</i> , <b>2015</b> , 6, 7405	17.4	53
1	Cell paintballing using optically targeted coacervate microdroplets. <i>Chemical Science</i> , <b>2015</b> , 6, 6106-6111	11.4	16