

James P K Armstrong

List of Publications by Year in descending order

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26
papers

2,190
citations

361296

20
h-index

526166

27
g-index

28
all docs

28
docs citations

28
times ranked

3512
citing authors

#	ARTICLE	IF	CITATIONS
1	Re-Engineering Extracellular Vesicles as Smart Nanoscale Therapeutics. ACS Nano, 2017, 11, 69-83.	7.3	432
2	Strategic design of extracellular vesicle drug delivery systems. Advanced Drug Delivery Reviews, 2018, 130, 12-16.	6.6	171
3	Expanding and optimizing 3D bioprinting capabilities using complementary network bioinks. Science Advances, 2020, 6, .	4.7	156
4	High-Resolution Patterned Cellular Constructs by Droplet-Based 3D Printing. Scientific Reports, 2017, 7, 7004.	1.6	154
5	3D Bioprinting Using a Templated Porous Bioink. Advanced Healthcare Materials, 2016, 5, 1724-1730.	3.9	148
6	Tailoring Gelation Mechanisms for Advanced Hydrogel Applications. Advanced Functional Materials, 2020, 30, 2002759.	7.8	148
7	Engineering Anisotropic Muscle Tissue using Acoustic Cell Patterning. Advanced Materials, 2018, 30, e1802649.	11.1	140
8	Advances in the Fabrication of Biomaterials for Gradient Tissue Engineering. Trends in Biotechnology, 2021, 39, 150-164.	4.9	98
9	Void-Free 3D Bioprinting for In Situ Endothelialization and Microfluidic Perfusion. Advanced Functional Materials, 2020, 30, 1908349.	7.8	96
10	Glycosylated superparamagnetic nanoparticle gradients for osteochondral tissue engineering. Biomaterials, 2018, 176, 24-33.	5.7	92
11	Assembling Living Building Blocks to Engineer Complex Tissues. Advanced Functional Materials, 2020, 30, 1909009.	7.8	76
12	Artificial membrane-binding proteins stimulate oxygenation of stem cells during engineering of large cartilage tissue. Nature Communications, 2015, 6, 7405.	5.8	64
13	Buoyancy-Driven Gradients for Biomaterial Fabrication and Tissue Engineering. Advanced Materials, 2019, 31, e1900291.	11.1	61
14	Using Remote Fields for Complex Tissue Engineering. Trends in Biotechnology, 2020, 38, 254-263.	4.9	60
15	Size-Tunable Nanoneedle Arrays for Influencing Stem Cell Morphology, Gene Expression, and Nuclear Membrane Curvature. ACS Nano, 2020, 14, 5371-5381.	7.3	51
16	Ultrasound-Triggered Enzymatic Gelation. Advanced Materials, 2020, 32, e1905914.	11.1	38
17	In vivo biomolecular imaging of zebrafish embryos using confocal Raman spectroscopy. Nature Communications, 2020, 11, 6172.	5.8	36
18	Spatiotemporal quantification of acoustic cell patterning using VoronoÃ tessellation. Lab on A Chip, 2019, 19, 562-573.	3.1	30

#	ARTICLE	IF	CITATIONS
19	Emerging Technologies for Tissue Engineering: From Gene Editing to Personalized Medicine. Tissue Engineering - Part A, 2019, 25, 688-692.	1.6	26
20	A blueprint for translational regenerative medicine. Science Translational Medicine, 2020, 12, .	5.8	24
21	Strategies for cell membrane functionalization. Experimental Biology and Medicine, 2016, 241, 1098-1106.	1.1	21
22	Cell paintballing using optically targeted coacervate microdroplets. Chemical Science, 2015, 6, 6106-6111.	3.7	18
23	Tissue Engineering Cartilage with Deep Zone Cytoarchitecture by High-Resolution Acoustic Cell Patterning. Advanced Healthcare Materials, 2022, 11, .	3.9	17
24	Immunogold FIB-SEM: Combining Volumetric Ultrastructure Visualization with 3D Biomolecular Analysis to Dissect Cell-Environment Interactions. Advanced Materials, 2019, 31, 1900488.	11.1	16
25	Regulation of Scaffold Cell Adhesion Using Artificial Membrane Binding Proteins. Macromolecular Bioscience, 2017, 17, 1600523.	2.1	12
26	Community-driven online initiatives have reshaped scientific engagement. Nature Reviews Materials, 2021, 6, 963-965.	23.3	1