## Lyndsay M Stapleton

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Translational Applications of Hydrogels. Chemical Reviews, 2021, 121, 11385-11457.	47.7	438
2	Use of a supramolecular polymeric hydrogel as an effective post-operative pericardial adhesion barrier. Nature Biomedical Engineering, 2019, 3, 611-620.	22.5	154
3	An innovative biologic system for photon-powered myocardium in the ischemic heart. Science Advances, 2017, 3, e1603078.	10.3	88
4	Scalable manufacturing of biomimetic moldable hydrogels for industrial applications. Proceedings of the United States of America, 2016, 113, 14255-14260.	7.1	78
5	A co-formulation of supramolecularly stabilized insulin and pramlintide enhances mealtime glucagon suppression in diabetic pigs. Nature Biomedical Engineering, 2020, 4, 507-517.	22.5	52
6	Nonâ€Newtonian Polymer–Nanoparticle Hydrogels Enhance Cell Viability during Injection. Macromolecular Bioscience, 2019, 19, e1800275.	4.1	49
7	A Biocompatible Therapeutic Catheterâ€Deliverable Hydrogel for In Situ Tissue Engineering. Advanced Healthcare Materials, 2019, 8, e1801147.	7.6	47
8	An ultrafast insulin formulation enabled by high-throughput screening of engineered polymeric excipients. Science Translational Medicine, 2020, 12, .	12.4	46
9	Modeling conduit choice for valve-sparing aortic root replacement on biomechanics with a 3-dimensional–printed heart simulator. Journal of Thoracic and Cardiovascular Surgery, 2019, 158, 392-403.	0.8	36
10	Natural Heart Regeneration in a Neonatal Rat Myocardial Infarction Model. Cells, 2020, 9, 229.	4.1	32
11	Tissue-engineered smooth muscle cell and endothelial progenitor cell bi-level cell sheets prevent progression of cardiac dysfunction, microvascular dysfunction, and interstitial fibrosis in a rodent model of type 1 diabetes-induced cardiomyopathy. Cardiovascular Diabetology, 2017, 16, 142.	6.8	30
12	Rapid Self-Assembly of Bioengineered Cardiovascular Bypass Grafts From Scaffold-Stabilized, Tubular Bilevel Cell Sheets. Circulation, 2018, 138, 2130-2144.	1.6	28
13	Wildfire prevention through prophylactic treatment of high-risk landscapes using viscoelastic retardant fluids. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 20820-20827.	7.1	27
14	Multi-phase catheter-injectable hydrogel enables dual-stage protein-engineered cytokine release to mitigate adverse left ventricular remodeling following myocardial infarction in a small animal model and a large animal model. Cytokine, 2020, 127, 154974.	3.2	26
15	Engineered biomaterials for heart disease. Current Opinion in Biotechnology, 2020, 66, 246-254.	6.6	21
16	Dynamic Hydrogels for Prevention of Postâ€Operative Peritoneal Adhesions. Advanced Therapeutics, 2021, 4, 2000242.	3.2	17
17	Safety of photosynthetic <i>Synechococcus elongatus</i> for <i>in vivo</i> cyanobacteria–mammalian symbiotic therapeutics. Microbial Biotechnology, 2020, 13, 1780-1792.	4.2	16
18	Bioengineered analog of stromal cell-derived factor 1α preserves the biaxial mechanical properties of native myocardium after infarction. Journal of the Mechanical Behavior of Biomedical Materials, 2019, 96, 165-171.	3.1	11

#	Article	IF	CITATIONS
19	Full closed loop openâ€source algorithm performance comparison in pigs with diabetes. Clinical and Translational Medicine, 2021, 11, e387.	4.0	11
20	Multiaxial Lenticular Stress-Strain Relationship of Native Myocardium is Preserved by Infarct-Induced Natural Heart Regeneration in Neonatal Mice. Scientific Reports, 2020, 10, 7319.	3.3	6
21	Natural cardiac regeneration conserves native biaxial left ventricular biomechanics after myocardial infarction in neonatal rats. Journal of the Mechanical Behavior of Biomedical Materials, 2022, 126, 105074.	3.1	2
22	Abstract 17169: Computationally-Engineered Analog of Stromal Cell-Derived Factor 1α Preserves the Mechanical Properties of Infarcted Myocardium Under Planar Biaxial Tension. Circulation, 2018, 138, .	1.6	0