

Lyndsay M Stapleton

List of Publications by Year in descending order

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Version: 2024-02-01

22
papers

1,215
citations

516561

16
h-index

713332

21
g-index

22
all docs

22
docs citations

22
times ranked

1277
citing authors

#	ARTICLE	IF	CITATIONS
1	Translational Applications of Hydrogels. <i>Chemical Reviews</i> , 2021, 121, 11385-11457.	23.0	438
2	Use of a supramolecular polymeric hydrogel as an effective post-operative pericardial adhesion barrier. <i>Nature Biomedical Engineering</i> , 2019, 3, 611-620.	11.6	154
3	An innovative biologic system for photon-powered myocardium in the ischemic heart. <i>Science Advances</i> , 2017, 3, e1603078.	4.7	88
4	Scalable manufacturing of biomimetic moldable hydrogels for industrial applications. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 14255-14260.	3.3	78
5	A co-formulation of supramolecularly stabilized insulin and pramlintide enhances mealtime glucagon suppression in diabetic pigs. <i>Nature Biomedical Engineering</i> , 2020, 4, 507-517.	11.6	52
6	Non-Newtonian Polymer Nanoparticle Hydrogels Enhance Cell Viability during Injection. <i>Macromolecular Bioscience</i> , 2019, 19, e1800275.	2.1	49
7	A Biocompatible Therapeutic Catheter-Deliverable Hydrogel for In Situ Tissue Engineering. <i>Advanced Healthcare Materials</i> , 2019, 8, e1801147.	3.9	47
8	An ultrafast insulin formulation enabled by high-throughput screening of engineered polymeric excipients. <i>Science Translational Medicine</i> , 2020, 12, .	5.8	46
9	Modeling conduit choice for valve-sparing aortic root replacement on biomechanics with a 3-dimensional-printed heart simulator. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2019, 158, 392-403.	0.4	36
10	Natural Heart Regeneration in a Neonatal Rat Myocardial Infarction Model. <i>Cells</i> , 2020, 9, 229.	1.8	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. <i>Cardiovascular Diabetology</i> , 2017, 16, 142.	2.7	30
12	Rapid Self-Assembly of Bioengineered Cardiovascular Bypass Grafts From Scaffold-Stabilized, Tubular Bilevel Cell Sheets. <i>Circulation</i> , 2018, 138, 2130-2144.	1.6	28
13	Wildfire prevention through prophylactic treatment of high-risk landscapes using viscoelastic retardant fluids. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 20820-20827.	3.3	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. <i>Cytokine</i> , 2020, 127, 154974.	1.4	26
15	Engineered biomaterials for heart disease. <i>Current Opinion in Biotechnology</i> , 2020, 66, 246-254.	3.3	21
16	Dynamic Hydrogels for Prevention of Post-Operative Peritoneal Adhesions. <i>Advanced Therapeutics</i> , 2021, 4, 2000242.	1.6	17
17	Safety of photosynthetic <i>Synechococcus elongatus</i> for in vivo mammalian symbiotic therapeutics. <i>Microbial Biotechnology</i> , 2020, 13, 1780-1792.	2.0	16
18	Bioengineered analog of stromal cell-derived factor 1± preserves the biaxial mechanical properties of native myocardium after infarction. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2019, 96, 165-171.	1.5	11

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19	Full closed loop open-source algorithm performance comparison in pigs with diabetes. <i>Clinical and Translational Medicine</i> , 2021, 11, e387.	1.7	11
20	Multiaxial Lenticular Stress-Strain Relationship of Native Myocardium is Preserved by Infarct-Induced Natural Heart Regeneration in Neonatal Mice. <i>Scientific Reports</i> , 2020, 10, 7319.	1.6	6
21	Natural cardiac regeneration conserves native biaxial left ventricular biomechanics after myocardial infarction in neonatal rats. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2022, 126, 105074.	1.5	2
22	Abstract 17169: Computationally-Engineered Analog of Stromal Cell-Derived Factor 1 Preserves the Mechanical Properties of Infarcted Myocardium Under Planar Biaxial Tension. <i>Circulation</i> , 2018, 138, .	1.6	0