

# Amanda N Steele

## List of Publications by Year in descending order

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Version: 2024-02-01

25  
papers

712  
citations

516710

16  
h-index

677142

22  
g-index

25  
all docs

25  
docs citations

25  
times ranked

1180  
citing authors

#	ARTICLE	IF	CITATIONS
1	Use of a supramolecular polymeric hydrogel as an effective post-operative pericardial adhesion barrier. <i>Nature Biomedical Engineering</i> , 2019, 3, 611-620.	22.5	154
2	An innovative biologic system for photon-powered myocardium in the ischemic heart. <i>Science Advances</i> , 2017, 3, e1603078.	10.3	88
3	Regulating Stem Cell Secretome Using Injectable Hydrogels with In Situ Network Formation. <i>Advanced Healthcare Materials</i> , 2016, 5, 2758-2764.	7.6	53
4	Angiogenesis precedes cardiomyocyte migration in regenerating mammalian hearts. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2018, 155, 1118-1127.e1.	0.8	52
5	A Biocompatible Therapeutic Catheter-Deliverable Hydrogel for In Situ Tissue Engineering. <i>Advanced Healthcare Materials</i> , 2019, 8, e1801147.	7.6	47
6	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.	0.8	36
7	Natural Heart Regeneration in a Neonatal Rat Myocardial Infarction Model. <i>Cells</i> , 2020, 9, 229.	4.1	32
8	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.	6.8	30
9	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
10	A novel protein-engineered hepatocyte growth factor analog released via a shear-thinning injectable hydrogel enhances post-infarction ventricular function. <i>Biotechnology and Bioengineering</i> , 2017, 114, 2379-2389.	3.3	27
11	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.	3.2	26
12	Gap Analysis of Pharmacokinetics and Pharmacodynamics in Burn Patients. <i>Journal of Burn Care and Research</i> , 2015, 36, e194-e211.	0.4	24
13	SDF 1-alpha Attenuates Myocardial Injury Without Altering the Direct Contribution of Circulating Cells. <i>Journal of Cardiovascular Translational Research</i> , 2018, 11, 274-284.	2.4	18
14	Isolation and trans-differentiation of mesenchymal stromal cells into smooth muscle cells: Utility and applicability for cell-sheet engineering. <i>Cytotherapy</i> , 2016, 18, 510-517.	0.7	17
15	Stem Cell Therapy: Healing or Hype?. <i>Circulation Research</i> , 2017, 120, 1868-1870.	4.5	16
16	Layered smooth muscle cell-endothelial progenitor cell sheets derived from the bone marrow augment postinfarction ventricular function. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2017, 154, 955-963.	0.8	16
17	Safety of photosynthetic <i>Synechococcus elongatus</i> for <i>in vivo</i> mammalian symbiotic therapeutics. <i>Microbial Biotechnology</i> , 2020, 13, 1780-1792.	4.2	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.	3.1	11

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19	A Bioengineered Neuregulin-Hydrogel Therapy Reduces Scar Size and Enhances Post-Infarct Ventricular Contractility in an Ovine Large Animal Model. <i>Journal of Cardiovascular Development and Disease</i> , 2020, 7, 53.	1.6	8
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.	3.3	6
21	Injectable Bioengineered Hydrogel Therapy in the Treatment of Ischemic Cardiomyopathy. <i>Current Treatment Options in Cardiovascular Medicine</i> , 2017, 19, 30.	0.9	5
22	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.	3.1	2
23	From Bench to Clinic: Translation of Cardiovascular Tissue Engineering Products to Clinical Applications. , 2019, , 125-140.		0
24	Abstract 17169: Computationally-Engineered Analog of Stromal Cell-Derived Factor 1 $\pm$ Preserves the Mechanical Properties of Infarcted Myocardium Under Planar Biaxial Tension. <i>Circulation</i> , 2018, 138, .	1.6	0
25	Abstract 16907: A Light-powered Symbiosis With a Primordial Chloroplast Attenuates Myocardial Injury in the Absence of Blood Perfusion. <i>Circulation</i> , 2015, 132, .	1.6	0