

Akshara D Thakore

List of Publications by Year in descending order

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Version: 2024-02-01

22
papers

599
citations

759233

12
h-index

752698

20
g-index

23
all docs

23
docs citations

23
times ranked

823
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	Angiogenesis precedes cardiomyocyte migration in regenerating mammalian hearts. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2018, 155, 1118-1127.e1.	0.8	52
4	A Biocompatible Therapeutic Catheter-â€ Deliverable Hydrogel for In Situ Tissue Engineering. <i>Advanced Healthcare Materials</i> , 2019, 8, e1801147.	7.6	47
5	Exâ€ Vivo Biomechanical Study of Apical Versus Papillary Neochord Anchoring for Mitral Regurgitation. <i>Annals of Thoracic Surgery</i> , 2019, 108, 90-97.	1.3	38
6	Development and Ex Vivo Validation of Novel Force-Sensing Neochordae for Measuring Chordae Tendineae Tension in the Mitral Valve Apparatus Using Optical Fibers With Embedded Bragg Gratings. <i>Journal of Biomechanical Engineering</i> , 2020, 142, .	1.3	33
7	Natural Heart Regeneration in a Neonatal Rat Myocardial Infarction Model. <i>Cells</i> , 2020, 9, 229.	4.1	32
8	Mitral chordae tendineae force profile characterization using a posterior ventricular anchoring neochordal repair model for mitral regurgitation in a three-dimensional-printed <i>ex vivo</i> left heart simulator. <i>European Journal of Cardio-thoracic Surgery</i> , 2020, 57, 535-544.	1.4	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	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
11	Comprehensive Ex Vivo Comparison of 5 Clinically Used Conduit Configurations for Valve-Sparing Aortic Root Replacement Using a 3-Dimensionalâ€ Printed Heart Simulator. <i>Circulation</i> , 2020, 142, 1361-1373.	1.6	22
12	Safety of photosynthetic <i>Synechococcus elongatus</i> for <i>in vivo</i> cyanobacteriaâ€ mammalian symbiotic therapeutics. <i>Microbial Biotechnology</i> , 2020, 13, 1780-1792.	4.2	16
13	Bioengineered analog of stromal cell-derived factor 1 \pm 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
14	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
15	A neonatal leporine model of age-dependent natural heart regeneration after myocardial infarction. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2022, 164, e389-e405.	0.8	6
16	Collagen-Supplemented Incubation Rapidly Augments Mechanical Property of Fibroblast Cell Sheets. <i>Tissue Engineering - Part A</i> , 2021, 27, 328-335.	3.1	5
17	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
18	Three-Dimensional Multilayered Microstructure Using Needle Array Bioprinting System. <i>Tissue Engineering - Part A</i> , 2020, 26, 350-357.	3.1	1

#	ARTICLE	IF	CITATIONS
19	Abstract 17133: A Novel, Shear-Thinning and Rapidly Self-Healing Polymer Nanoparticle Hydrogel Diminishes Post-Operative Adhesions in Rodent and Ovine Models of Cardiac Adhesion Formation. Circulation, 2018, 138, .	1.6	1
20	Abstract 13909: A Novel Photon-powered Biologic Gel for Enhanced Wound Healing in a Peripheral Arterial Disease Model. Circulation, 2020, 142, .	1.6	1
21	Abstract 17169: Computationally-Engineered Analog of Stromal Cell-Derived Factor 1 \pm Preserves the Mechanical Properties of Infarcted Myocardium Under Planar Biaxial Tension. Circulation, 2018, 138, .	1.6	0
22	Abstract 21311: A Novel, Shear-Assembling, Shear-Thinning Polymer-Nanoparticle Hydrogel Diminishes Post-Operative Thoracic Adhesions in a Rodent Model of Ischemic Cardiomyopathy. Circulation, 2017, 136, .	1.6	0