

Zhiyun Xu

List of Publications by Year in descending order

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62
papers

1,698
citations

567281

15
h-index

302126

39
g-index

62
all docs

62
docs citations

62
times ranked

2360
citing authors

#	ARTICLE	IF	CITATIONS
1	<i>In Vivo</i> Self-Powered Wireless Cardiac Monitoring <i>via</i> Implantable Triboelectric Nanogenerator. <i>ACS Nano</i> , 2016, 10, 6510-6518.	14.6	342
2	Self-Powered, One-Stop, and Multifunctional Implantable Triboelectric Active Sensor for Real-Time Biomedical Monitoring. <i>Nano Letters</i> , 2016, 16, 6042-6051.	9.1	291
3	Direct Powering a Real Cardiac Pacemaker by Natural Energy of a Heartbeat. <i>ACS Nano</i> , 2019, 13, 2822-2830.	14.6	131
4	Circular RNA ciRS-7 triggers the migration and invasion of esophageal squamous cell carcinoma via miR-7/KLF4 and NF- κ B signals. <i>Cancer Biology and Therapy</i> , 2019, 20, 73-80.	3.4	107
5	BRG1 expression is increased in thoracic aortic aneurysms and regulates proliferation and apoptosis of vascular smooth muscle cells through the long non-coding RNA HIF1A-AS1 <i>in vitro</i> . <i>European Journal of Cardio-thoracic Surgery</i> , 2015, 47, 439-446.	1.4	106
6	MicroRNA-30b is a multifunctional regulator of aortic valve interstitial cells. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2014, 147, 1073-1080.e2.	0.8	71
7	Acute type A dissection without intimal tear in arch: Proximal or extensive repair?. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2014, 147, 1251-1255.	0.8	55
8	Efficient decellularization for bovine pericardium with extracellular matrix preservation and good biocompatibility. <i>Interactive Cardiovascular and Thoracic Surgery</i> , 2018, 26, 768-776.	1.1	52
9	A Battery- and Leadless Heart-Worn Pacemaker Strategy. <i>Advanced Functional Materials</i> , 2020, 30, 2000477.	14.9	42
10	Comparison of detergent-based decellularization protocols for the removal of antigenic cellular components in porcine aortic valve. <i>Xenotransplantation</i> , 2018, 25, e12380.	2.8	37
11	Interleukin-6 downregulated vascular smooth muscle cell contractile proteins via ATG4B-mediated autophagy in thoracic aortic dissection. <i>Heart and Vessels</i> , 2017, 32, 1523-1535.	1.2	28
12	BRG1 overexpression in smooth muscle cells promotes the development of thoracic aortic dissection. <i>BMC Cardiovascular Disorders</i> , 2014, 14, 144.	1.7	26
13	Osteogenesis in calcified aortic valve disease: From histopathological observation towards molecular understanding. <i>Progress in Biophysics and Molecular Biology</i> , 2016, 122, 156-161.	2.9	25
14	Risk factors for noninvasive ventilation failure in patients with post-extubation acute respiratory failure after cardiac surgery. <i>Journal of Thoracic Disease</i> , 2018, 10, 3319-3328.	1.4	22
15	Transcatheter tricuspid valve replacement in patients with severe tricuspid regurgitation. <i>Heart</i> , 2021, 107, 1664-1670.	2.9	22
16	Exchange protein directly activated by cAMP plays a critical role in regulation of vascular fibrinolysis. <i>Life Sciences</i> , 2019, 221, 1-12.	4.3	19
17	Retrograde Type A Dissection after Thoracic Endovascular Aortic Repair: Surgical Strategy and Literature Review. <i>Heart Lung and Circulation</i> , 2018, 27, 629-634.	0.4	17
18	Long-term results of modified sandwich repair of aortic root in 151 patients with acute type A aortic dissection. <i>Interactive Cardiovascular and Thoracic Surgery</i> , 2017, 25, 109-113.	1.1	15

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19	Stem-Cell Therapy for Esophageal Anastomotic Leakage by Autografting Stromal Cells in Fibrin Scaffold. <i>Stem Cells Translational Medicine</i> , 2019, 8, 548-556.	3.3	15
20	MicroRNA-133b inhibits cell proliferation and promotes apoptosis by targeting cullin 4B in esophageal squamous cell carcinoma. <i>Experimental and Therapeutic Medicine</i> , 2018, 15, 3743-3750.	1.8	14
21	Impact of a Higher Body Mass Index on Prolonged Intubation in Patients Undergoing Surgery for Acute Thoracic Aortic Dissection. <i>Heart Lung and Circulation</i> , 2020, 29, 1725-1732.	0.4	14
22	Outcomes and risk factors of postoperative hepatic dysfunction in patients undergoing acute type A aortic dissection surgery. <i>Journal of Thoracic Disease</i> , 2019, 11, 3225-3233.	1.4	13
23	miR-214 Attenuates Aortic Valve Calcification by Regulating Osteogenic Differentiation of Valvular Interstitial Cells. <i>Molecular Therapy - Nucleic Acids</i> , 2020, 22, 971-980.	5.1	13
24	Differential expression profile of long non-coding RNAs in human thoracic aortic aneurysm. <i>Journal of Cellular Biochemistry</i> , 2018, 119, 7991-7997.	2.6	12
25	An innovative method to obtain porous porcine aorta scaffolds for tissue engineering. <i>Artificial Organs</i> , 2019, 43, 1162-1169.	1.9	12
26	A radial force-independent bioprosthesis for transcatheter tricuspid valve implantation in a preclinical model. <i>International Journal of Cardiology</i> , 2020, 319, 120-126.	1.7	12
27	Systemic immune-inflammation index predicted short-term outcomes in ATAD patients undergoing surgery. <i>Journal of Cardiac Surgery</i> , 2022, 37, 969-975.	0.7	12
28	Mercaptoethanol Protects the Aorta from Dissection by Inhibiting Oxidative Stress, Inflammation, and Extracellular Matrix Degeneration in a Mouse Model. <i>Medical Science Monitor</i> , 2018, 24, 1802-1812.	1.1	11
29	Implantation of Sinoatrial Node Cells into Canine Right Ventricle: Biological Pacing Appears Limited by the Substrate. <i>Cell Transplantation</i> , 2011, 20, 1907-1914.	2.5	11
30	Efficiency of different annuloplasty in treating functional tricuspid regurgitation and risk factors for recurrence. <i>IJC Heart and Vasculature</i> , 2014, 5, 15-19.	1.1	10
31	Pericardial interstitial cell senescence responsible for pericardial structural remodeling in idiopathic and postsurgical constrictive pericarditis. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2017, 154, 966-975.e4.	0.8	10
32	HSP90 inhibitor 17-DMAG effectively alleviated the progress of thoracic aortic dissection by suppressing smooth muscle cell phenotypic switch. <i>American Journal of Translational Research (discontinued)</i> , 2019, 11, 509-518.	0.0	10
33	Left Subclavian Artery Fenestration: A Novel Treatment Strategy for Acute Type A Aortic Dissection. <i>Annals of Thoracic Surgery</i> , 2016, 101, 95-99.	1.3	9
34	An experimental study on a piezoelectric vibration energy harvester for self-powered cardiac pacemakers. <i>Annals of Translational Medicine</i> , 2021, 9, 880-880.	1.7	9
35	Risk factors and short-term prognosis of preoperative renal insufficiency in infective endocarditis. <i>Journal of Thoracic Disease</i> , 2018, 10, 3679-3688.	1.4	8
36	Epidermal growth factor receptor mutation accelerates radiographic progression in lung adenocarcinoma presented as a solitary ground-glass opacity. <i>Journal of Thoracic Disease</i> , 2018, 10, 6030-6039.	1.4	8

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37	Screening and Function Analysis of MicroRNAs Involved in Exercise Preconditioning-Attenuating Pathological Cardiac Hypertrophy. <i>International Heart Journal</i> , 2018, 59, 1069-1076.	1.0	8
38	MicroRNA-22 promoted osteogenic differentiation of valvular interstitial cells by inhibiting CAB39 expression during aortic valve calcification. <i>Cellular and Molecular Life Sciences</i> , 2022, 79, 146.	5.4	8
39	Effects of inhaled nitric oxide for postoperative hypoxemia in acute type A aortic dissection: a retrospective observational study. <i>Journal of Cardiothoracic Surgery</i> , 2020, 15, 25.	1.1	7
40	Aspirin plus ticagrelor or clopidogrel on graft patency one year after coronary bypass grafting: a single-center, randomized, controlled trial. <i>Journal of Thoracic Disease</i> , 2021, 13, 1697-1705.	1.4	7
41	Protein arginine methyltransferase 1 interacts with Gli1 and regulates its transcriptional activity. <i>Tumor Biology</i> , 2016, 37, 9071-9076.	1.8	6
42	Microarray analysis and functional characterization revealed NEDD4-mediated cardiomyocyte autophagy induced by angiotensin II. <i>Cell Stress and Chaperones</i> , 2019, 24, 203-212.	2.9	5
43	Dysregulated long non-coding RNAs involved in regulation of matrix degradation during type-B aortic dissection pathogenesis. <i>General Thoracic and Cardiovascular Surgery</i> , 2021, 69, 238-245.	0.9	5
44	All-Trans Retinoic Acid Prevented Vein Grafts Stenosis by Inhibiting Rb-E2F Mediated Cell Cycle Progression and KLF5-RAR α Interaction in Human Vein Smooth Muscle Cells. <i>Cardiovascular Drugs and Therapy</i> , 2021, 35, 103-111.	2.6	5
45	Predicting renal replacement therapy after cardiac valve surgery: external validation and comparison of two clinical scores. <i>Interactive Cardiovascular and Thoracic Surgery</i> , 2016, 23, 869-975.	1.1	4
46	Extra-anatomical bypass to treat aortic endograft infection after thoracic endovascular aortic repair. <i>Interactive Cardiovascular and Thoracic Surgery</i> , 2020, 30, 620-622.	1.1	4
47	Clinical Outcome of Reoperation for Mechanical Prosthesis at Aortic Position. <i>Heart Lung and Circulation</i> , 2021, 30, 1084-1090.	0.4	4
48	Swim bladder as an alternative biomaterial for bioprosthetic valves. <i>Biomaterials Science</i> , 2021, 9, 8356-8365.	5.4	4
49	KLF4 prevented angiotensin II-induced smooth muscle cell senescence by enhancing autophagic activity. <i>European Journal of Clinical Investigation</i> , 2022, , e13804.	3.4	4
50	Crosslinking and functionalization of acellular patches via the self-assembly of copper@tea polyphenol nanoparticles. <i>International Journal of Energy Production and Management</i> , 2022, 9, .	3.7	4
51	Libman-Sacks Endocarditis in a Puerpera With Systemic Lupus Erythematosus. <i>Annals of Thoracic Surgery</i> , 2019, 107, e169-e170.	1.3	3
52	Fabrication of porous bovine pericardium scaffolds incorporated with bFGF for tissue engineering applications. <i>Xenotransplantation</i> , 2020, 27, e12568.	2.8	3
53	Long-term outcomes of surgical procedures for Marfan syndrome: aortic dissection versus aneurysm. <i>Journal of Thoracic Disease</i> , 2020, 12, 249-257.	1.4	3
54	IgG4-Related Tumefactive Lesions at the Pulmonary Artery Causing Stenosis of Bilateral Primary Branches and Resultant Pulmonary Hypertension. <i>Cardiology</i> , 2019, 143, 136-144.	1.4	1

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55	Decision-making at initial surgery for type A aortic dissection in patients with Marfan syndrome: proximal or extensive repair. <i>Journal of Thoracic Disease</i> , 2019, 11, 4951-4959.	1.4	1
56	Risk factors of chronic left ventricular dysfunction after cardiac valve surgery. <i>Journal of Thoracic Disease</i> , 2020, 12, 4854-4859.	1.4	1
57	Hybrid Reconstruction of the Aortic Arch Using a Double-Branched Stent-Graft in a Canine Model. <i>Journal of Investigative Surgery</i> , 2019, 32, 491-500.	1.3	0
58	In vitro and in vivo studies on the biocompatibility of a self-powered pacemaker with a flexible buckling piezoelectric vibration energy harvester for rats. <i>Annals of Translational Medicine</i> , 2021, 9, 800-800.	1.7	0
59	A novel method to obtain rat aortic media for primary culture of rat aortic smooth muscle cells. <i>In Vitro Cellular and Developmental Biology - Animal</i> , 2021, 57, 726-734.	1.5	0
60	Staged repair of chronic type A aortic dissection with small true lumen at the descending aorta. <i>Journal of Thoracic Disease</i> , 2020, 12, 4126-4131.	1.4	0
61	Efficacy of cardiovascular surgery for Marfan syndrome patients: a single-center 15-year follow-up study. <i>Journal of Thoracic Disease</i> , 2020, 12, 7106-7116.	1.4	0
62	Outcomes of reoperation for total arch replacement combined with frozen elephant trunk after previous cardiovascular surgery. <i>Asian Journal of Surgery</i> , 2022, , .	0.4	0