Liming Xin

List of Publications by Year
in descending order

28	500	933447 10	713466 21
papers	citations	h-index	g-index

29	29	29	412
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Influence of relative density distribution rules on the mechanical compression responses of additive manufactured Ti6Al4V graded lattice structures. Mechanics of Advanced Materials and Structures, 2023, 30, 114-130.	2.6	12
2	Trajectory Consensus for Coordination of Multiple Curvature-Bounded Vehicles. IEEE Transactions on Cybernetics, 2022, 52, 6307-6319.	9.5	3
3	Involute-arc-leg for Multi-legged Robot: High Stability and Low Energy Consumption. Mechanism and Machine Theory, 2022, 170, 104701.	4.5	4
4	Model Reference Adaptive Control for Aortic Pressure Regulation in Ex Vivo Heart Perfusion. IEEE Transactions on Control Systems Technology, 2021, 29, 884-892.	5.2	2
5	Instantaneous peak 2.1 W-level hybrid energy harvesting from human motions for self-charging battery-powered electronics. Nano Energy, 2021, 81, 105629.	16.0	41
6	Review of Recent Progress in Robotic Knee Prosthesis Related Techniques: Structure, Actuation and Control. Journal of Bionic Engineering, 2021, 18, 764-785.	5.0	19
7	Harnessing energy from suspension systems of oceanic vehicles with high-performance piezoelectric generators. Energy, 2021, 228, 120523.	8.8	18
8	Mouse on a Ring: A Mouse Action Scheme Based on IMU and Multi-Level Decision Algorithm. IEEE Sensors Journal, 2021, 21, 20512-20520.	4.7	2
9	Design and Experiment of a Deformable Bird-inspired UAV Perching Mechanism. Journal of Bionic Engineering, 2021, 18, 1304-1316.	5.0	9
10	Echocardiographic assessment of left ventricular function in ex situ heart perfusion using pump-supported and passive afterload working mode: a pilot study. Journal of Anesthesia, Analgesia and Critical Care, 2021, 1, .	1.3	1
11	Legless soft robots capable of rapid, continuous, and steered jumping. Nature Communications, 2021, 12, 7028.	12.8	38
12	The Implementation of an Adjustable Afterload Module for Ex Situ Heart Perfusion. Cardiovascular Engineering and Technology, 2020, 11, 96-110.	1.6	9
13	The implementation of physiological afterload during ex situ heart perfusion augments prediction of posttransplant function. American Journal of Physiology - Heart and Circulatory Physiology, 2020, 318, H25-H33.	3.2	11
14	Primed Left Ventricle Heart Perfusion Creates Physiological Aortic Pressure in Porcine Hearts. ASAIO Journal, 2020, 66, 55-63.	1.6	4
15	Design and Control of a Piezo Drill for Robotic Piezo-Driven Cell Penetration. IEEE Robotics and Automation Letters, 2020, 5, 339-345.	5.1	17
16	Comparing Donor Heart Assessment Strategies During Ex Situ Heart Perfusion to Better Estimate Posttransplant Cardiac Function. Transplantation, 2020, 104, 1890-1898.	1.0	13
17	Robotic Swarm Control for Precise and On-Demand Embolization. , 2020, , .		6
18	Mechanical properties and energy absorption capabilities of functionally graded lattice structures: Experiments and simulations. International Journal of Mechanical Sciences, 2020, 182, 105735.	6.7	145

#	Article	IF	Citations
19	Single-Beat Measurement of Left Ventricular Contractility in Normothermic Ex Situ Perfused Porcine Hearts. IEEE Transactions on Biomedical Engineering, 2020, 67, 3288-3295.	4.2	6
20	Flexible triboelectric 3D touch pad with unit subdivision structure for effective XY positioning and pressure sensing. Nano Energy, 2020, 76, 105047.	16.0	69
21	Automated Parallel Electrical Characterization of Cells Using Optically-Induced Dielectrophoresis. IEEE Transactions on Automation Science and Engineering, 2020, 17, 1084-1092.	5.2	27
22	Automated Aortic Pressure Regulation in ex vivo Heart Perfusion. , 2019, , .		0
23	A New Multi-Mode Perfusion System for Ex Vivo Heart Perfusion Study. Journal of Medical Systems, 2018, 42, 25.	3.6	21
24	Fabrication of triple-layered bifurcated vascular scaffold with a certain degree of three-dimensional structure. AIP Advances, 2018, 8, 015006.	1.3	0
25	Description of a Novel Set-up for Functional Echocardiographic Assessment of Left Ventricular Performance During Ex Vivo Heart Perfusion. Anesthesia and Analgesia, 2018, 127, e36-e39.	2.2	6
26	Drug-Loaded Vascular Scaffold Fabricated by Coaxial Electrospining and Electro-Hydro-Dynamic Direct-Writing. Journal of Biomaterials and Tissue Engineering, 2018, 8, 665-670.	0.1	1
27	Preparation of Multi-Scale Hydrogel Scaffolds for Tissue Engineering Through Biologic Hydrogel 3D Printing and Forming System. Journal of Biomaterials and Tissue Engineering, 2018, 8, 1244-1249.	0.1	2
28	Dynamic Metabolic Changes During Prolonged Ex Situ Heart Perfusion Are Associated With Myocardial Functional Decline. Frontiers in Immunology, 0, 13, .	4.8	13