Paul A Iaizzo

List of Publications by Year
in descending order

196 papers	3,131 citations	201674 27 h-index	197818 49 g-index
200 all docs	200 docs citations	200 times ranked	3168 citing authors

#	Article	IF	Citations
1	Bears Show a Physiological but Limited Behavioral Response to Unmanned Aerial Vehicles. Current Biology, 2015, 25, 2278-2283.	3.9	257
2	The Effects of Radiofrequency or Cryothermal Ablation on Biomechanical Properties of Isolated Human or Swine Cardiac Tissues. IEEE Journal of Translational Engineering in Health and Medicine, 2016, 4, 1-5.	3.7	146
3	Muscle strength in overwintering bears. Nature, 2001, 409, 997-997.	27.8	140
4	Isolated four-chamber working swine heart model. Annals of Thoracic Surgery, 2000, 70, 1607-1614.	1.3	136
5	Fura-2 detected myoplasmic calcium and its correlation with contracture force in skeletal muscle from normal and malignant hyperthermia susceptible pigs. Pflugers Archiv European Journal of Physiology, 1988, 411, 648-653.	2.8	103
6	Monitoring the wild black bear's reaction to human and environmental stressors. BMC Physiology, 2011, 11, 13.	3.6	84
7	In Vitro Studies of Human Hearts. Annals of Thoracic Surgery, 2005, 79, 168-177.	1.3	77
8	Right Ventricular Anatomy Can Accommodate Multiple Micra Transcatheter Pacemakers. PACE - Pacing and Clinical Electrophysiology, 2016, 39, 393-397.	1.2	75
9	American black bears perceive the risks of crossing roads. Behavioral Ecology, 2018, 29, 667-675.	2.2	68
10	Role of Î´-opioid receptor agonists on infarct size reduction in swine. American Journal of Physiology - Heart and Circulatory Physiology, 2002, 282, H1953-H1960.	3.2	66
11	Extreme Respiratory Sinus Arrhythmia Enables Overwintering Black Bear Survivalâ€"Physiological Insights and Applications to Human Medicine. Journal of Cardiovascular Translational Research, 2010, 3, 559-569.	2.4	65
12	Wound healing during hibernation by black bears (Ursus americanus) in the wild: elicitation of reduced scar formation. Integrative Zoology, 2012, 7, 48-60.	2.6	65
13	Prolonged EVLP Using OCS Lung. Transplantation, 2017, 101, 2303-2311.	1.0	62
14	Schwartz-Jampel syndrome: II. Na+ channel defect causes myotonia. Muscle and Nerve, 1990, 13, 528-535.	2.2	57
15	Pericardial delivery of omega-3 fatty acid: a novel approach to reducing myocardial infarct sizes and arrhythmias. American Journal of Physiology - Heart and Circulatory Physiology, 2008, 294, H2212-H2218.	3.2	54
16	Freezeâ€"Thaw Induced Biomechanical Changes in Arteries: Role of Collagen Matrix and Smooth Muscle Cells. Annals of Biomedical Engineering, 2010, 38, 694-706.	2.5	54
17	Right Atrioventricular Valve Leaflet Morphology Redefined. JACC: Cardiovascular Interventions, 2019, 12, 169-178.	2.9	49
18	Development and utilization of implantable cardiac monitors in free-ranging American black and Eurasian brown bears: system evolution and lessons learned. Animal Biotelemetry, 2018, 6, .	1.9	46

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19	Six Years in the Life of a Mother Bear - The Longest Continuous Heart Rate Recordings from a Free-Ranging Mammal. Scientific Reports, 2017, 7, 40732.	3.3	45
20	Mitral leaflet anatomy revisited. Journal of Thoracic and Cardiovascular Surgery, 2009, 137, 1077-1081.	0.8	44
21	Opioid preconditioning: myocardial function and energy metabolism. Annals of Thoracic Surgery, 2001, 72, 1576-1582.	1.3	42
22	Excitation of the Intrinsic Conduction System Through His and Interventricular Septal Pacing. PACE - Pacing and Clinical Electrophysiology, 2006, 29, 397-405.	1.2	42
23	Bears habituate to the repeated exposure of a novel stimulus, unmanned aircraft systems. , 2019, 7, coy067.		42
24	Blood clotting behavior is innately modulated in Ursus Americanus during early and late denning relative to summer months. Journal of Experimental Biology, 2017, 220, 455-459.	1.7	41
25	3D printed patient-specific aortic root models with internal sensors for minimally invasive applications. Science Advances, 2020, 6, eabb4641.	10.3	34
26	Electrophysiological Mechanisms of the Anti-arrhythmic Effects of Omega-3 Fatty Acids. Journal of Cardiovascular Translational Research, 2011, 4, 42-52.	2.4	31
27	Dynamic obstruction to coronary sinus access: The Thebesian valve. Heart Rhythm, 2006, 3, 1240-1241.	0.7	30
28	Venous valves within left ventricular coronary veins. Journal of Interventional Cardiac Electrophysiology, 2008, 23, 95-99.	1.3	29
29	Left Ventricular Trabeculations Decrease the Wall Shear Stress and Increase the Intra-Ventricular Pressure Drop in CFD Simulations. Frontiers in Physiology, 2018, 9, 458.	2.8	29
30	4-Chloro-m-cresol Triggers Malignant Hyperthermia in Susceptible Swine at Doses Greatly Exceeding Those Found in Drug Preparations. Anesthesiology, 1999, 90, 1723-1732..	2.5	27
31	The in vitro determination of susceptibility to malignant hyperthermia. Muscle and Nerve, 1989, 12, 184-190.	2.2	26
32	Experiential Education In New Product Design And Business Development. Journal of Product Innovation Management, 2002, 19, 4-17.	9.5	25
33	Vitrification and Rewarming of Magnetic Nanoparticleâ€Loaded Rat Hearts. Advanced Materials Technologies, 2022, 7, 2100873.	5.8	25
34	Response to Succinylcholine in Porcine Malignant Hyperthermia. Anesthesia and Analgesia, 1994, 79, 143???151.	2.2	24
35	Resealed fiber segments for the study of the pathophysiology of human skeletal muscle. Muscle and Nerve, 1990, 13, 222-231.	2.2	23
36	Hibernation induction trigger reduces hypoxic damage of swine skeletal muscle. Muscle and Nerve, 2005, 32, 200-207.	2.2	21

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37	Direct Visualization of a Transcatheter Pulmonary Valve Implantation Within the Visible Heart. Circulation, 2007, 116, e548.	1.6	21
38	Microanatomy of Human Left Ventricular Coronary Veins. Anatomical Record, 2009, 292, 23-28.	1.4	21
39	Edge-to-edge repairs of P2 prolapsed mitral valves in isolated swine hearts. Journal of Heart Valve Disease, 2011, 20, 5-12.	0.5	21
40	In Vitro Contracture Testing for Determination of Susceptibility to Malignant Hyperthermia: A Methodologic Update. Mayo Clinic Proceedings, 1991, 66, 998-1004.	3.0	20
41	Images of the human coronary sinus ostium obtained from isolated working hearts. Annals of Thoracic Surgery, 2003, 76, 2108.	1.3	20
42	High Pacing Impedances: Are You Overtorquing Your Leads?. PACE - Pacing and Clinical Electrophysiology, 2005, 28, 883-891.	1.2	20
43	Optimal contact forces to minimize cardiac perforations before, during, and/or after radiofrequency or cryothermal ablations. Heart Rhythm, 2015, 12, 291-296.	0.7	19
44	Insights from echocardiography, magnetic resonance imaging, and microcomputed tomography relative to the midâ€myocardial left ventricular echogenic zone. Echocardiography, 2016, 33, 1546-1556.	0.9	19
45	An experimental study of the recovery of injured porcine lungs with prolonged normothermic cellularexÂvivolung perfusion following donation after circulatory death. Transplant International, 2017, 30, 932-944.	1.6	19
46	Human Coronary Venous Anatomy: Implications for Interventions. Journal of Cardiovascular Translational Research, 2013, 6, 208-217.	2.4	18
47	OUP accepted manuscript. Europace, 2016, 18, iv163-iv172.	1.7	18
48	High Capacity Implantable Data Recorders: System Design and Experience in Canines and Denning Black Bears. Journal of Biomechanical Engineering, 2005, 127, 964-971.	1.3	17
49	Venous valves: Unseen obstructions to coronary access. Journal of Interventional Cardiac Electrophysiology, 2007, 19, 165-166.	1.3	16
50	Tissue Properties of the Fossa Ovalis as They Relate to Transseptal Punctures: A Translational Approach. Journal of Interventional Cardiology, 2015, 28, 98-108.	1.2	16
51	Doxorubicin chemomyectomy as a treatment for cervical dystonia: Histological assessment after direct injection into the sternocleidomastoid muscle. , 1998, 21, 1457-1464.		15
52	In vivo versus in vitro comparison of swine cardiac performance: Induction of cardiodepression with halothane. European Journal of Pharmacology, 2006, 543, 97-107.	3.5	15
53	Cardiac device testing enhanced by simultaneous imaging modalities: the Visible Heart^{Â®}, fluoroscopy and echocardiography. Expert Review of Medical Devices, 2008, 5, 51-58.	2.8	15
54	Featured Article: Pharmacological postconditioning with delta opioid attenuates myocardial reperfusion injury in isolated porcine hearts. Experimental Biology and Medicine, 2017, 242, 986-995.	2.4	15

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55	A Novel Ex Vivo Heart Model for the Assessment of Cardiac Pacing Systems. Journal of Biomechanical Engineering, 2005, 127, 894-898.	1.3	14
56	Determination of cryothermal injury thresholds in tissues impacted by cardiac cryoablation. Cryobiology, 2017, 75, 125-133.	0.7	14
57	Plasma levels of ursodeoxycholic acid in black bears, Ursus americanus: Seasonal changes. Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology, 2006, 143, 204-208.	2.6	13
58	Variation in Pacing Impedance: Impact of Implant Site and Measurement Method. PACE - Pacing and Clinical Electrophysiology, 2007, 30, 1076-1082.	1.2	13
59	Analysis of fiber orientation in normal and failing human hearts using diffusion tensor MRI. , 2009, , .		13
60	A detailed assessment of the human coronary venous system using contrast computed tomography of perfusion-fixed specimens. Heart Rhythm, 2014, 11, 282-288.	0.7	13
61	Patient independent representation of the detailed cardiac ventricular anatomy. Medical Image Analysis, 2017, 35, 270-287.	11.6	13
62	The correlation between electrical after-activity and slowed relaxation in myotonia. Muscle and Nerve, 1990, 13, 240-246.	2.2	12
63	Differential diagnosis of periodic paralysis aided by in vitro myography. Neuromuscular Disorders, 1995, 5, 115-124.	0.6	12
64	Effects of left ventricular lead positions and coronary venous microanatomy on cardiac pacing parameters. Journal of Electrocardiology, 2010, 43, 136-141.	0.9	12
65	MRI assessment of pacing induced ventricular dyssynchrony in an isolated human heart. Journal of Magnetic Resonance Imaging, 2010, 31, 466-469.	3.4	12
66	Methods to Prepare Perfusion Fixed Cardiac Specimens for Multimodal Imaging: The Use of Formalin and Agar Gels. Journal of Medical Devices, Transactions of the ASME, 2011, 5, .	0.7	12
67	Lung transplant after prolonged exÂvivo lung perfusion: predictors of allograft function in swine. Transplant International, 2018, 31, 1405-1417.	1.6	12
68	Cardiac patientâ€“specific three-dimensional models as surgical planning tools. Surgery, 2020, 167, 259-263.	1.9	12
69	Efficient engraftment of pluripotent stem cell-derived myogenic progenitors in a novel immunodeficient mouse model of limb girdle muscular dystrophy 2I. Skeletal Muscle, 2020, 10, 10.	4.2	12
70	Twitch relaxation of the cat soleus muscle at different lengths and temperatures. Muscle and Nerve, 1990, 13, 1105-1112.	2.2	11
71	Comparative imaging of cardiac structures and function for the optimization of transcatheter approaches for valvular and structural heart disease. International Journal of Cardiovascular Imaging, 2011, 27, 1223-1234.	1.5	11
72	The Recovery of Hibernating Hearts Lies on a Spectrum: from Bears in Nature to Patients with Coronary Artery Disease. Journal of Cardiovascular Translational Research, 2015, 8, 244-252.	2.4	11

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73	In VitroÂ Effects of Propofol and Volatile Agents on Pharmacologically Induced Chloride Channel Myotonia. Anesthesiology, 2009, 111, 584-590.	2.5	11
74	In vitro assessment of induced phrenic nerve cryothermal injury. Heart Rhythm, 2014, 11, 1779-1784.	0.7	10
75	MRI Reconstructions of Human Phrenic Nerve Anatomy and Computational Modeling of Cryoballoon Ablative Therapy. Annals of Biomedical Engineering, 2016, 44, 1097-1106.	2.5	10
76	Investigating the physiological effects of 10.5 Tesla static field exposure on anesthetized swine. Magnetic Resonance in Medicine, 2018, 79, 511-514.	3.0	10
77	3â€Dimensional printing to predict paravalvular regurgitation after transcatheter aortic valve replacement. Catheterization and Cardiovascular Interventions, 2020, 96, E703-E710.	1.7	10
78	Assessing wound severity with color and infrared imaging of reactive hyperemia. Wound Repair and Regeneration, 1996, 4, 386-392.	3.0	9
79	Cardiac Responses to the Intrapericardial Delivery of Metoprolol: Targeted Delivery Compared to Intravenous Administration. Journal of Cardiovascular Translational Research, 2012, 5, 535-540.	2.4	9
80	Anatomical Reconstructions of the Human Cardiac Venous System using Contrast-computed Tomography of Perfusion-fixed Specimens. Journal of Visualized Experiments, 2013, , .	0.3	9
81	Big data in wildlife research: remote web-based monitoring of hibernating black bears. BMC Physiology, 2014, 14, 13.	3.6	9
82	Multimodal imaging of a transcatheter pacemaker implantation within a reanimated human heart. Heart Rhythm, 2014, 11, 2331-2332.	0.7	9
83	Physiological assessment of muscle strength in vitro after direct injection of doxorubicin into rabbit sternocleidomastoid muscle. Movement Disorders, 2001, 16, 683-692.	3.9	8
84	Muscle strength following direct injection of doxorubicin into rabbit sternocleidomastoid muscle in situ. Muscle and Nerve, 2002, 25, 735-741.	2.2	8
85	Stimulated muscle force assessment of the sternocleidomastoid muscle in humans. Journal of Medical Engineering and Technology, 2005, 29, 82-89.	1.4	8
86	The ABCs of autologous blood collection for exÂvivo organ preservation. Journal of Thoracic and Cardiovascular Surgery, 2018, 155, 433-435.	0.8	8
87	The fixation tines of the Micraâ„¢ leadless pacemaker are atraumatic to the tricuspid valve. PACE - Pacing and Clinical Electrophysiology, 2018, 41, 1606-1610.	1.2	8
88	Evaluating the roles of detailed endocardial structures on right ventricular haemodynamics by means of CFD simulations. International Journal for Numerical Methods in Biomedical Engineering, 2018, 34, e3115.	2.1	8
89	Electrical parameters for physiological Hisâ€“Purkinje pacing vary by implant location in an exÂvivo canine model. Heart Rhythm, 2019, 16, 443-450.	0.7	8
90	Imaging of a Coronary Artery Stent Implantation Within an Isolated Human Heart. Journal of Cardiovascular Translational Research, 2012, 5, 73-74.	2.4	7

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91	Left phrenic nerve anatomy relative to the coronary venous system: Implications for phrenic nerve stimulation during cardiac resynchronization therapy. Clinical Anatomy, 2015, 28, 621-626.	2.7	7
92	Prospective isolation of human fibroadipogenic progenitors with CD73. Heliyon, 2020, 6, e04503.	3.2	7
93	Assessment of single and double coronary bifurcation stenting techniques using multimodal imaging and 3D modeling in reanimated swine hearts using Visible HeartÂ® methodologies. International Journal of Cardiovascular Imaging, 2021, 37, 2591-2601.	1.5	7
94	An engineering perspective on the development and evolution of implantable cardiac monitors in free-living animals. Philosophical Transactions of the Royal Society B: Biological Sciences, 2021, 376, 20200217.	4.0	7
95	Discrimination of ischemia and normal sinus rhythm for cardiac signals using a modified k means clustering algorithm. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 3856-9.	0.5	6
96	The Effects of Temperature on Cardiac Pacing Thresholds. PACE - Pacing and Clinical Electrophysiology, 2010, 33, 826-833.	1.2	6
97	Multimodal Imaging of a Transcatheter Aortic Valve Implantation Within an Isolated Heart. JACC: Cardiovascular Imaging, 2011, 4, 1138-1139.	5.3	6
98	Modeling of Induced Electric Fields as a Function of Cardiac Anatomy and Venous Pacing Lead Location. Cardiovascular Engineering and Technology, 2011, 2, 399-407.	1.6	6
99	The relative anatomy of the coronary arterial and venous systems. Clinical Anatomy, 2014, 27, 1023-1029.	2.7	6
100	A Head and Neck Support Device for Inducing Local Hypothermia. Journal of Medical Devices, Transactions of the ASME, 2014, 8, 0110021-110029.	0.7	6
101	The novel in vitro reanimation of isolated human and large mammalian heart-lung blocs. BMC Physiology, 2016, 16, 4.	3.6	6
102	Retrieval of a chronically implanted leadless pacemaker within an isolated heart using direct visualization. HeartRhythm Case Reports, 2018, 4, 167-169.	0.4	6
103	Effects of Ablation (Radio Frequency, Cryo, Microwave) on Physiologic Properties of the Human Vastus Lateralis. IEEE Transactions on Biomedical Engineering, 2018, 65, 2202-2209.	4.2	6
104	Multimodal imaging of a self-expanding transcatheter aortic valve replacement (TAVR) procedure in a reanimated human heart and post-implant analyses. International Journal of Cardiovascular Imaging, 2019, 35, 2135-2137.	1.5	6
105	Identification of Radiofrequency Ablation Catheter Parameters That May Induce Intracardiac Steam Pops: Direct Visualization of Elicitation in Reanimated Swine Hearts. Journal of Cardiovascular Translational Research, 2019, 12, 250-256.	2.4	6
106	Prolonged extracorporeal preservation and evaluation of human lungs with portable normothermic ex vivo perfusion. Clinical Transplantation, 2020, 34, e13801.	1.6	6
107	Three dimensional reconstruction of coronary artery stents from optical coherence tomography: experimental validation and clinical feasibility. Scientific Reports, 2021, 11, 12252.	3.3	6
108	Following the beat of cardiac potentials. IEEE Potentials, 2007, 26, 19-25.	0.3	5

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109	Isolated Atrial Segment Pacing. Journal of the American College of Cardiology, 2007, 49, 1443-1449.	2.8	5
110	An interactive graphical user interface for comprehensive analysis of human and swine cardiac monophasic action potential. Computers in Biology and Medicine, 2009, 39, 1105-1116.	7.0	5
111	Visualization of catheter ablation for atrial fibrillation: Impact of devices and anatomy. World Journal of Cardiology, 2015, 7, 754.	1.5	5
112	In vivo cardiac monophasic action potential recording using electromyogram needles. , 2006, , .		4
113	The Pericardium. , 2009, , 125-136.		4
114	The Importance of Human Cardiac Anatomy for Translational Research. Journal of Cardiovascular Translational Research, 2013, 6, 105-106.	2.4	4
115	Direct visualization of induced steam pops during radiofrequency ablation. HeartRhythm Case Reports, 2015, 1, 264-265.	0.4	4
116	Assessing the Relative Integrity of Formed Cardiac Linear Lesions by Recording Both Focal Monophasic Action Potentials and Contact Forces: A Technical Brief. IEEE Journal of Translational Engineering in Health and Medicine, 2015, 3, 1-6.	3.7	4
117	The Visible HeartÂ® project and methodologies: novel use for studying cardiac monophasic action potentials and evaluating their underlying mechanisms. Expert Review of Medical Devices, 2018, 15, 467-477.	2.8	4
118	Compartment Syndrome: Evaluation of Skeletal Muscle Ischemia and Physiologic Biomarkers in Controlled Conditions Within Ex Vivo Isolated Muscle Bundles. Journal of Orthopaedic Trauma, 2020, 34, 518-523.	1.4	4
119	Algorithm for the analysis of pre-extraction computed tomographic images to evaluate implanted leadâ€“lead interactions and leadâ€“vascular attachments. Heart Rhythm, 2020, 17, 1009-1016.	0.7	4
120	Direct Visualization of TAVR-Related Coronary Artery Management Techniques in Reanimated Beating Hearts. JACC: Cardiovascular Interventions, 2021, 14, e87-e91.	2.9	4
121	The Design and Use of an Optical Mapping System for the Study of Intracardiac Electrical Signaling. Indian Pacing and Electrophysiology Journal, 2012, 12, 138-151.	0.6	3
122	The benefits of the Atlas of Human Cardiac Anatomy website for the design of cardiac devices. Expert Review of Medical Devices, 2013, 10, 729-734.	2.8	3
123	Irreversible Electroporation of Cardiovascular Cells and Tissues. Journal of Medical Devices, Transactions of the ASME, 2013, 7, .	0.7	3
124	Reversible and Irreversible Damage of the Myocardium: Ischemia/Reperfusion Injury and Cardioprotection. , 2015, , 279-293.		3
125	A Simplified Model for the Assessment of Ex Vivo Lung Perfusion Methodologies and Treatments1. Journal of Medical Devices, Transactions of the ASME, 2016, 10, .	0.7	3
126	Testing the Efficacy of Pharmacological Agents in a Pericardial Target Delivery Model in the Swine. Journal of Visualized Experiments, 2016, , .	0.3	3

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127	Multimodal imaging employed during extraction of pacing or defibrillator leads from perfusion-fixed human hearts. HeartRhythm Case Reports, 2020, 6, 918-921.	0.4	3
128	Remarkable Adaptations of the American Black Bear Help Explain Why it is the Most Common Bear: A Long-Term Study from the Center of its Range. , 2020, , 53-62.		3
129	Imaging in the context of replacement heart valve development: use of the Visible Heart(Â®) methodologies. Cardiovascular Diagnosis and Therapy, 2012, 2, 220-30.	1.7	3
130	In vitro contractile studies within isolated tissue baths: Translational research from Visible Heart^{Â®} Laboratories. Experimental Biology and Medicine, 2022, 247, 584-597.	2.4	3
131	Novel visualization of intracardiac pacing lead extractions: methodologies performed within isolated canine hearts. Journal of Interventional Cardiac Electrophysiology, 2009, 24, 27-31.	1.3	2
132	Malignant hyperthermia â€“ Update of diagnostics. Trends in Anaesthesia and Critical Care, 2012, 2, 218-223.	0.9	2
133	Physiological Tissue Response to Various Ablative Modalities1. Journal of Medical Devices, Transactions of the ASME, 2014, 8, .	0.7	2
134	The Coronary Vascular System and Associated Medical Devices. , 2015, , 137-161.		2
135	Isometric skeletal muscle force measurement in primary myopathies. Muscle and Nerve, 2016, 53, 913-917.	2.2	2
136	The quantitative assessment of epicardial fat distribution on human hearts: Implications for epicardial electrophysiology. Clinical Anatomy, 2018, 31, 661-666.	2.7	2
137	Assessment of Ablative Therapies in Swine: Response of Respiratory Diaphragm to Varying Doses. Annals of Biomedical Engineering, 2018, 46, 947-959.	2.5	2
138	Effects of ATP administration on isolated swine hearts: Implications for ex vivo perfusion and cardiac transplantation. Experimental Biology and Medicine, 2019, 244, 915-922.	2.4	2
139	Direct endoscopic visualization of physiological His-bundle pacing and surrounding anatomy within reanimated human hearts using visible heart methodologies. HeartRhythm Case Reports, 2019, 5, 209-212.	0.4	2
140	Virtual Prototyping: Computational Device Placements within Detailed Human Heart Models. Applied Sciences (Switzerland), 2020, 10, 175.	2.5	2
141	First Successful Open-Heart Surgery Utilizing Cross-Circulation in 1954. Annals of Thoracic Surgery, 2020, 110, 336-341.	1.3	2
142	Multimodal functional and still imaging of a transplanted human heart reanimated using Visible HeartÂ® methodologies. Journal of Cardiac Surgery, 2020, 35, 668-671.	0.7	2
143	High-resolution 3D reconstructions of human vasculatures: creation of educational tools and benchtop models for transcatheter devices. Cardiovascular Intervention and Therapeutics, 2022, 37, 519-525.	2.3	2
144	Isolated Heart Models. , 2010, , 249-260.		1

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145	In Vitro Evaluations of Cardiac Mapping Catheters Designs and Utilities: Employing Visible HeartÂ® Methodologies1. Journal of Medical Devices, Transactions of the ASME, 2016, 10, .	0.7	1
146	Tissue Necrosis Associated With Chemical Ablations1. Journal of Medical Devices, Transactions of the ASME, 2016, 10, .	0.7	1
147	A Device to Aid in Quantifying Lung Compliance and Edema1. Journal of Medical Devices, Transactions of the ASME, 2016, 10, .	0.7	1
148	CRT-700.12 3D Printing and Computer Modeling to Predict Paravalvular Leak in Transcatheter Aortic Valve Replacement. JACC: Cardiovascular Interventions, 2018, 11, S50.	2.9	1
149	Direct visualization of the removal of chronically implanted pacing leads from an unfixed humanÂcadaver. HeartRhythm Case Reports, 2018, 4, 170-172.	0.4	1
150	Induced functional modulations of isolated large mammalian hearts. Pflugers Archiv European Journal of Physiology, 2019, 471, 1095-1101.	2.8	1
151	Importance of Human Cadaver Studies in Education and Medical Device Research. , 2019, , 255-280.		1
152	Impact of statin intake on malignant hyperthermia: an in vitro and in vivo swine study. BMC Anesthesiology, 2020, 20, 270.	1.8	1
153	Distributions of Arterial Calcification Along Transcatheter Delivery System Pathway. , 2019, , .		1
154	Visualization of an innovative approach for mitral isthmus ablation. Journal of Integrative Cardiology, 2016, 1, .	0.1	1
155	Physiological Assessment of Cardiac Muscle Post-Irreversible Electroporation Therapy. , 2017, , .		1
156	Biomechanical Responses of Swine Esophagus Tissue to Irreversible Electroporation. , 2018, , .		1
157	Viscosity Matching Positively Affects the Correlation of Pressure-Volume Loops Between In-Vivo and Ex-Vivo Models. , 2021, , .		1
158	Altered Vascular Contractilities Associated with the Applications of Irreversible Electroporation. , 2021, , .		1
159	Interactive Computational Medical Device Deployments within Virtual Reality. , 2021, , .		1
160	Evaluating the Potential Susceptibilities of Swine Bronchi to Colateral Damage from Applied Cryoablation. , 2021, , .		1
161	The functional anatomy of human cardiac valves and unique visualization of transcatheter-delivered valves being deployed. , 2009, 2009, 1098-9.		0
162	Global electrophysiological and hemodynamic assessment of ventricular pacing employing non-contact mapping. Journal of Interventional Cardiac Electrophysiology, 2009, 26, 185-194.	1.3	0

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163	The Use of Isolated Heart Models and Anatomic Specimens as Means to Enhance the Design and Testing of Cardiac Valve Therapies. , 2013, , 359-380.		0
164	3D Assessments of Patent Foramen Ovale Within Human Hearts: Insights Relative to Design Considerations for Medical Devices. Journal of Medical Devices, Transactions of the ASME, 2013, 7, .	0.7	0
165	3-Dimensional Reconstructions of the Human Coronary Artery System Using Contrast Computed Tomography of Perfusion-Fixed Specimens. Journal of Medical Devices, Transactions of the ASME, 2013, 7, .	0.7	0
166	High-Speed Visualization of Steam Pops During Radiofrequency Ablation1. Journal of Medical Devices, Transactions of the ASME, 2014, 8, .	0.7	0
167	Acute Shrinkage of the Pulmonary Vein Ensuing From Radiofrequency and Cryoablations1. Journal of Medical Devices, Transactions of the ASME, 2015, 9, .	0.7	0
168	Modeling of Swine Diaphragmatic Tissue Under Uniaxial Loading1. Journal of Medical Devices, Transactions of the ASME, 2015, 9, .	0.7	0
169	Direct visualization of an atrial transseptal left ventricular endocardial lead implantation within an isolated heart. HeartRhythm Case Reports, 2015, 1, 107-109.	0.4	0
170	Radiofrequency Ablation for Hepatocellular Carcinoma: Enhanced Ablative Responses Utilizing Adjuvant NaCl Pretreatments1. Journal of Medical Devices, Transactions of the ASME, 2015, 9, .	0.7	0
171	Pacing and Defibrillation. , 2015, , 543-575.		0
172	The Use of Isolated Heart Models and Anatomical Specimens as Means to Enhance the Design and Testing of Cardiac Devices. , 2015, , 751-764.		0
173	Acute Perforation Properties of the Right Atrial Appendage1. Journal of Medical Devices, Transactions of the ASME, 2016, 10, .	0.7	0
174	The Ability to Reproducibly Record Cardiac Action Potentials From Multiple Anatomic Locations: Endocardially and Epicardially, <italic>In Situ</italic> and <italic>In Vitro</italic>. IEEE Transactions on Biomedical Engineering, 2019, 66, 159-164.	4.2	0
175	Contact Forces Required to Record Monophasic Action Potentials: A Complement to Catheter Contact Force Measurement. IEEE Transactions on Biomedical Engineering, 2019, 66, 2974-2978.	4.2	0
176	Advancing the Design and Testing of Novel Cardiac Device Technologies Using the Visible Heart. , 2019, , 119-152.		0
177	Electroporation Ablative Therapy as a Clinical Tool. , 2019, , 179-200.		0
178	Transcatheter Valve Repair and Replacement. , 2009, , 561-569.		0
179	Videoscopic images of unique septal and medial papillary muscle complexes recorded from reanimated human hearts. FASEB Journal, 2012, 26, 726.10.	0.5	0
180	Estimating Water Loss During Hibernation in the American Black Bear (Ursus americanus). FASEB Journal, 2012, 26, 1071.13.	0.5	0

#	Article	IF	Citations
181	Novel visualization of iatrogenic atrial septal defects and ablation lesions in a reanimated human heart. FASEB Journal, 2012, 26, 726.9.	0.5	0
182	The Atlas of Human Cardiac Anatomy: A freeâ€access educational website. FASEB Journal, 2012, 26, 529.17.	0.5	0
183	High speed imaging of an aortic valve in a fullâ€functional reanimated human heart. FASEB Journal, 2012, 26, 726.8.	0.5	0
184	Novel imaging of the implantation of leftâ€sided pacing leads within reanimated swine hearts. FASEB Journal, 2012, 26, 523.2.	0.5	0
185	Assessments of Chamber Volumes within Perfusionâ€Fixed Human Hearts: Direct Measurements versus 3D Volume Reconstructions. FASEB Journal, 2012, 26, 524.2.	0.5	0
186	Transcatheter Valve Repair and Replacement. , 2015, , 671-683.		0
187	Patient-Specific Three-Dimensional Computational Heart Modeling and Printing to Enhance Clinical Understandings and Treatment Planning: Congenital Recurrent Pulmonary Artery Stenosis and Transcatheter Pulmonary Valve Replacement. , 2021, , .		0
188	Enhancing Mimetic Three-Dimensional Modeling and Printing for Presurgical Planning Applications: Improved Soft Tissue Assesments, Analyses and Consolidation Strategies. , 2021, , .		0
189	Assessing the Complexity of Human Ventricular Anatomy: Computational Placement of Mapping Catheters in Perfusion- Fixed Human Hearts. , 2021, , .		0
190	Neuromorphic Representation of Cardiac Data from the American Black Bear During Hibernation. , 2021, , .		0
191	Aberrant Coronary Artery: A Rare Congenital Anomaly Examined Through Pre- And Post-Procedural 3D Anatomical Modeling. , 2022, , .		0
192	Ilization of Computational Modeling and 3D Printing for Pre-Procedural Planning of an LVAD Exchange Surgery. , 2022, , .		0
193	Development of an Epicardial Mapping Tank for Noninvasive Electrical Mapping of Ex Vivo Large Mammalian Hearts. , 2022, , .		0
194	Assessment of Contractile Forces of Swine Skeletal Muscle Following Irreversible Electroporation Therapy. , 2022, , .		0
195	The Use of a Pulsatile Perfusion Apparatus for the Assessment of Aortic Valve Function within Formalin Fixed Human Hearts: Pre- And Post-Tavr Implantation with Subsequent Micro-CT Analyses. , 2022, , .		0
196	Computationally Assessed 3D Anatomical Proximities and Spatial Relationships Among the Tricuspid Valve Annulus, Right Coronary Artery, and Triangle of Koch: Implications for Transcatheter Tricuspid Annuloplasty Repair. Structural Heart, 2022, , 100033.	0.6	0