

Paul A Iaizzo

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

171
papers

2,411
citations

26
h-index

43
g-index

200
ext. papers

2,786
ext. citations

3.4
avg, IF

5.13
L-index

#	Paper	IF	Citations
171	Bears Show a Physiological but Limited Behavioral Response to Unmanned Aerial Vehicles. <i>Current Biology</i> , 2015 , 25, 2278-83	6.3	202
170	The Effects of Radiofrequency or Cryothermal Ablation on Biomechanical Properties of Isolated Human or Swine Cardiac Tissues. <i>IEEE Journal of Translational Engineering in Health and Medicine</i> , 2016 , 4, 1900105	3	138
169	Muscle strength in overwintering bears. <i>Nature</i> , 2001 , 409, 997	50.4	114
168	Isolated four-chamber working swine heart model. <i>Annals of Thoracic Surgery</i> , 2000 , 70, 1607-14	2.7	113
167	Fura-2 detected myoplasmic calcium and its correlation with contracture force in skeletal muscle from normal and malignant hyperthermia susceptible pigs. <i>Pflugers Archiv European Journal of Physiology</i> , 1988 , 411, 648-53	4.6	82
166	Monitoring the wild black bear's reaction to human and environmental stressors. <i>BMC Physiology</i> , 2011 , 11, 13	0	74
165	In vitro studies of human hearts. <i>Annals of Thoracic Surgery</i> , 2005 , 79, 168-77	2.7	67
164	Wound healing during hibernation by black bears (<i>Ursus americanus</i>) in the wild: elicitation of reduced scar formation. <i>Integrative Zoology</i> , 2012 , 7, 48-60	1.9	60
163	Extreme respiratory sinus arrhythmia enables overwintering black bear survival--physiological insights and applications to human medicine. <i>Journal of Cardiovascular Translational Research</i> , 2010 , 3, 559-69	3.3	58
162	Right Ventricular Anatomy Can Accommodate Multiple Micra Transcatheter Pacemakers. <i>PACE - Pacing and Clinical Electrophysiology</i> , 2016 , 39, 393-7	1.6	55
161	Role of delta-opioid receptor agonists on infarct size reduction in swine. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2002 , 282, H1953-60	5.2	54
160	Schwartz-Jampel syndrome: II. Na ⁺ channel defect causes myotonia. <i>Muscle and Nerve</i> , 1990 , 13, 528-35	3.4	52
159	American black bears perceive the risks of crossing roads. <i>Behavioral Ecology</i> , 2018 , 29, 667-675	2.3	50
158	Pericardial delivery of omega-3 fatty acid: a novel approach to reducing myocardial infarct sizes and arrhythmias. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2008 , 294, H2212-8	5.2	48
157	Freeze-thaw induced biomechanical changes in arteries: role of collagen matrix and smooth muscle cells. <i>Annals of Biomedical Engineering</i> , 2010 , 38, 694-706	4.7	45
156	Opioid preconditioning: myocardial function and energy metabolism. <i>Annals of Thoracic Surgery</i> , 2001 , 72, 1576-82	2.7	40
155	Six Years in the Life of a Mother Bear - The Longest Continuous Heart Rate Recordings from a Free-Ranging Mammal. <i>Scientific Reports</i> , 2017 , 7, 40732	4.9	39

154	Prolonged EVLP Using OCS Lung: Cellular and Acellular Perfusates. <i>Transplantation</i> , 2017 , 101, 2303-2311	1.8	39
153	Mitral leaflet anatomy revisited. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2009 , 137, 1077-81	1.5	37
152	Development and utilization of implantable cardiac monitors in free-ranging American black and Eurasian brown bears: system evolution and lessons learned. <i>Animal Biotelemetry</i> , 2018 , 6,	2.8	36
151	Blood clotting behavior is innately modulated in <i>Ursus americanus</i> during early and late denning relative to summer months. <i>Journal of Experimental Biology</i> , 2017 , 220, 455-459	3	35
150	Excitation of the intrinsic conduction system through his and interventricular septal pacing. <i>PACE - Pacing and Clinical Electrophysiology</i> , 2006 , 29, 397-405	1.6	32
149	Dynamic obstruction to coronary sinus access: the Thebesian valve. <i>Heart Rhythm</i> , 2006 , 3, 1240-1	6.7	29
148	Right Atrioventricular Valve Leaflet Morphology Redefined: Implications for Transcatheter Repair Procedures. <i>JACC: Cardiovascular Interventions</i> , 2019 , 12, 169-178	5	28
147	Electrophysiological mechanisms of the anti-arrhythmic effects of omega-3 fatty acids. <i>Journal of Cardiovascular Translational Research</i> , 2011 , 4, 42-52	3.3	26
146	The in vitro determination of susceptibility to malignant hyperthermia. <i>Muscle and Nerve</i> , 1989 , 12, 184-90	3.4	26
145	Bears habituate to the repeated exposure of a novel stimulus, unmanned aircraft systems 2019 , 7, coy067		25
144	Resealed fiber segments for the study of the pathophysiology of human skeletal muscle. <i>Muscle and Nerve</i> , 1990 , 13, 222-31	3.4	22
143	Venous valves within left ventricular coronary veins. <i>Journal of Interventional Cardiac Electrophysiology</i> , 2008 , 23, 95-9	2.4	20
142	Hibernation induction trigger reduces hypoxic damage of swine skeletal muscle. <i>Muscle and Nerve</i> , 2005 , 32, 200-7	3.4	20
141	Experiential Education In New Product Design And Business Development. <i>Journal of Product Innovation Management</i> , 2002 , 19, 4-17	7.1	18
140	Response to succinylcholine in porcine malignant hyperthermia. <i>Anesthesia and Analgesia</i> , 1994 , 79, 143-50	3.4	18
139	Optimal contact forces to minimize cardiac perforations before, during, and/or after radiofrequency or cryothermal ablations. <i>Heart Rhythm</i> , 2015 , 12, 291-6	6.7	17
138	Images in cardiovascular medicine. Direct visualization of a transcatheter pulmonary valve implantation within the visible heart: a glimpse into the future. <i>Circulation</i> , 2007 , 116, e548	16.7	17
137	Images of the human coronary sinus ostium obtained from isolated working hearts. <i>Annals of Thoracic Surgery</i> , 2003 , 76, 2108	2.7	17

136	High pacing impedances: are you overtorquing your leads?. <i>PACE - Pacing and Clinical Electrophysiology</i> , 2005 , 28, 883-91	1.6	17
135	4-chloro-m-cresol triggers malignant hyperthermia in susceptible swine at doses greatly exceeding those found in drug preparations. <i>Anesthesiology</i> , 1999 , 90, 1723-32	4.3	16
134	An experimental study of the recovery of injured porcine lungs with prolonged normothermic cellular ex vivo lung perfusion following donation after circulatory death. <i>Transplant International</i> , 2017 , 30, 932-944	3	15
133	Left Ventricular Trabeculations Decrease the Wall Shear Stress and Increase the Intra-Ventricular Pressure Drop in CFD Simulations. <i>Frontiers in Physiology</i> , 2018 , 9, 458	4.6	15
132	Doxorubicin chemomyectomy as a treatment for cervical dystonia: histological assessment after direct injection into the sternocleidomastoid muscle. <i>Muscle and Nerve</i> , 1998 , 21, 1457-64	3.4	15
131	In vitro contracture testing for determination of susceptibility to malignant hyperthermia: a methodologic update. <i>Mayo Clinic Proceedings</i> , 1991 , 66, 998-1004	6.4	15
130	High capacity implantable data recorders: system design and experience in canines and Denning black bears. <i>Journal of Biomechanical Engineering</i> , 2005 , 127, 964-71	2.1	14
129	Cardiac device testing enhanced by simultaneous imaging modalities: the Visible Heart, fluoroscopy and echocardiography. <i>Expert Review of Medical Devices</i> , 2008 , 5, 51-8	3.5	13
128	In vivo versus in vitro comparison of swine cardiac performance: induction of cardiodepression with halothane. <i>European Journal of Pharmacology</i> , 2006 , 543, 97-107	5.3	13
127	A novel ex vivo heart model for the assessment of cardiac pacing systems. <i>Journal of Biomechanical Engineering</i> , 2005 , 127, 894-8	2.1	13
126	Featured Article: Pharmacological postconditioning with delta opioid attenuates myocardial reperfusion injury in isolated porcine hearts. <i>Experimental Biology and Medicine</i> , 2017 , 242, 986-995	3.7	12
125	Tissue properties of the fossa ovalis as they relate to transeptal punctures: a translational approach. <i>Journal of Interventional Cardiology</i> , 2015 , 28, 98-108	1.8	11
124	Insights from echocardiography, magnetic resonance imaging, and microcomputed tomography relative to the mid-myocardial left ventricular echogenic zone. <i>Echocardiography</i> , 2016 , 33, 1546-1556	1.5	11
123	A detailed assessment of the human coronary venous system using contrast computed tomography of perfusion-fixed specimens. <i>Heart Rhythm</i> , 2014 , 11, 282-8	6.7	11
122	Human coronary venous anatomy: implications for interventions. <i>Journal of Cardiovascular Translational Research</i> , 2013 , 6, 208-17	3.3	11
121	Microanatomy of human left ventricular coronary veins. <i>Anatomical Record</i> , 2009 , 292, 23-8	2.1	11
120	Plasma levels of ursodeoxycholic acid in black bears, <i>Ursus americanus</i> : seasonal changes. <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , 2006 , 143, 204-8	3.2	11
119	3D printed patient-specific aortic root models with internal sensors for minimally invasive applications. <i>Science Advances</i> , 2020 , 6, eabb4641	14.3	11

118	The Visible Heart project and free-access website Atlas of Human Cardiac Anatomy. <i>Europace</i> , 2016 , 18, iv163-iv172	3.9	11
117	Investigating the physiological effects of 10.5 Tesla static field exposure on anesthetized swine. <i>Magnetic Resonance in Medicine</i> , 2018 , 79, 511-514	4.4	10
116	Methods to Prepare Perfusion Fixed Cardiac Specimens for Multimodal Imaging: The Use of Formalin and Agar Gels. <i>Journal of Medical Devices, Transactions of the ASME</i> , 2011 , 5,	1.3	10
115	Analysis of fiber orientation in normal and failing human hearts using diffusion tensor MRI 2009 ,		10
114	Variation in pacing impedance: impact of implant site and measurement method. <i>PACE - Pacing and Clinical Electrophysiology</i> , 2007 , 30, 1076-82	1.6	10
113	Differential diagnosis of periodic paralysis aided by in vitro myography. <i>Neuromuscular Disorders</i> , 1995 , 5, 115-24	2.9	10
112	In vitro effects of propofol and volatile agents on pharmacologically induced chloride channel myotonia. <i>Anesthesiology</i> , 2009 , 111, 584-90	4.3	10
111	Determination of cryothermal injury thresholds in tissues impacted by cardiac cryoablation. <i>Cryobiology</i> , 2017 , 75, 125-133	2.7	9
110	Multimodal imaging of a transcatheter pacemaker implantation within a reanimated human heart. <i>Heart Rhythm</i> , 2014 , 11, 2331-2	6.7	9
109	Patient independent representation of the detailed cardiac ventricular anatomy. <i>Medical Image Analysis</i> , 2017 , 35, 270-287	15.4	9
108	The Recovery of Hibernating Hearts Lies on a Spectrum: from Bears in Nature to Patients with Coronary Artery Disease. <i>Journal of Cardiovascular Translational Research</i> , 2015 , 8, 244-52	3.3	9
107	MRI Reconstructions of Human Phrenic Nerve Anatomy and Computational Modeling of Cryoballoon Ablative Therapy. <i>Annals of Biomedical Engineering</i> , 2016 , 44, 1097-106	4.7	8
106	In vitro assessment of induced phrenic nerve cryothermal injury. <i>Heart Rhythm</i> , 2014 , 11, 1779-84	6.7	8
105	Big data in wildlife research: remote web-based monitoring of hibernating black bears. <i>BMC Physiology</i> , 2014 , 14, 13	0	8
104	Cardiac responses to the intrapericardial delivery of metoprolol: targeted delivery compared to intravenous administration. <i>Journal of Cardiovascular Translational Research</i> , 2012 , 5, 535-40	3.3	8
103	Comparative imaging of cardiac structures and function for the optimization of transcatheter approaches for valvular and structural heart disease. <i>International Journal of Cardiovascular Imaging</i> , 2011 , 27, 1223-34	2.5	8
102	MRI assessment of pacing induced ventricular dyssynchrony in an isolated human heart. <i>Journal of Magnetic Resonance Imaging</i> , 2010 , 31, 466-9	5.6	8
101	Venous valves: unseen obstructions to coronary access. <i>Journal of Interventional Cardiac Electrophysiology</i> , 2007 , 19, 165-6	2.4	8

100	The correlation between electrical after-activity and slowed relaxation in myotonia. <i>Muscle and Nerve</i> , 1990 , 13, 240-6	3.4	8
99	Efficient engraftment of pluripotent stem cell-derived myogenic progenitors in a novel immunodeficient mouse model of limb girdle muscular dystrophy 21. <i>Skeletal Muscle</i> , 2020 , 10, 10	5.1	8
98	Left phrenic nerve anatomy relative to the coronary venous system: Implications for phrenic nerve stimulation during cardiac resynchronization therapy. <i>Clinical Anatomy</i> , 2015 , 28, 621-6	2.5	7
97	Lung transplant after prolonged ex vivo lung perfusion: predictors of allograft function in swine. <i>Transplant International</i> , 2018 , 31, 1405-1417	3	7
96	Imaging of a coronary artery stent implantation within an isolated human heart. <i>Journal of Cardiovascular Translational Research</i> , 2012 , 5, 73-4	3.3	7
95	Effects of left ventricular lead positions and coronary venous microanatomy on cardiac pacing parameters. <i>Journal of Electrocardiology</i> , 2010 , 43, 136-41	1.4	7
94	Muscle strength following direct injection of doxorubicin into rabbit sternocleidomastoid muscle in situ. <i>Muscle and Nerve</i> , 2002 , 25, 735-741	3.4	7
93	Physiological assessment of muscle strength in vitro after direct injection of doxorubicin into rabbit sternocleidomastoid muscle. <i>Movement Disorders</i> , 2001 , 16, 683-92	7	7
92	Assessing wound severity with color and infrared imaging of reactive hyperemia. <i>Wound Repair and Regeneration</i> , 1996 , 4, 386-92	3.6	7
91	Twitch relaxation of the cat soleus muscle at different lengths and temperatures. <i>Muscle and Nerve</i> , 1990 , 13, 1105-12	3.4	7
90	Electrical parameters for physiological His-Purkinje pacing vary by implant location in an ex vivo canine model. <i>Heart Rhythm</i> , 2019 , 16, 443-450	6.7	7
89	Cardiac patient-specific three-dimensional models as surgical planning tools. <i>Surgery</i> , 2020 , 167, 259-263.	3.6	7
88	Stimulated muscle force assessment of the sternocleidomastoid muscle in humans. <i>Journal of Medical Engineering and Technology</i> , 2005 , 29, 82-9	1.8	6
87	Retrieval of a chronically implanted leadless pacemaker within an isolated heart using direct visualization. <i>HeartRhythm Case Reports</i> , 2018 , 4, 167-169	1	5
86	The ABCs of autologous blood collection for ex vivo organ preservation. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2018 , 155, 433-435	1.5	5
85	Evaluating the roles of detailed endocardial structures on right ventricular haemodynamics by means of CFD simulations. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2018 , 34, e3115	2.6	5
84	A Head and Neck Support Device for Inducing Local Hypothermia. <i>Journal of Medical Devices, Transactions of the ASME</i> , 2014 , 8, 0110021-110029	1.3	5
83	Isolated atrial segment pacing: an alternative to His bundle pacing after atrioventricular junctional ablation. <i>Journal of the American College of Cardiology</i> , 2007 , 49, 1443-9	15.1	5

82	Discrimination of ischemia and normal sinus rhythm for cardiac signals using a modified k means clustering algorithm. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2007 , 2007, 3856-9			5
81	Following the beat of cardiac potentials. <i>IEEE Potentials</i> , 2007 , 26, 19-25	1		5
80	3-Dimensional printing to predict paravalvular regurgitation after transcatheter aortic valve replacement. <i>Catheterization and Cardiovascular Interventions</i> , 2020 , 96, E703-E710	2.7		4
79	The relative anatomy of the coronary arterial and venous systems: implications for coronary interventions. <i>Clinical Anatomy</i> , 2014 , 27, 1023-9	2.5		4
78	Assessing the Relative Integrity of Formed Cardiac Linear Lesions by Recording Both Focal Monophasic Action Potentials and Contact Forces: A Technical Brief. <i>IEEE Journal of Translational Engineering in Health and Medicine</i> , 2015 , 3, 1900606	3		4
77	Multimodal imaging of a transcatheter aortic valve implantation within an isolated heart. <i>JACC: Cardiovascular Imaging</i> , 2011 , 4, 1138-9	8.4		4
76	The effects of temperature on cardiac pacing thresholds. <i>PACE - Pacing and Clinical Electrophysiology</i> , 2010 , 33, 826-33	1.6		4
75	An interactive graphical user interface for comprehensive analysis of human and swine cardiac monophasic action potential. <i>Computers in Biology and Medicine</i> , 2009 , 39, 1105-16	7		4
74	In vivo cardiac monophasic action potential recording using electromyogram needles 2006 ,			4
73	An engineering perspective on the development and evolution of implantable cardiac monitors in free-living animals. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2021 , 376, 20200217	5.8		4
72	Identification of Radiofrequency Ablation Catheter Parameters That May Induce Intracardiac Steam Pops: Direct Visualization of Elicitation in Reanimated Swine Hearts. <i>Journal of Cardiovascular Translational Research</i> , 2019 , 12, 250-256	3.3		4
71	Edge-to-edge repairs of P2 prolapsed mitral valves in isolated swine hearts. <i>Journal of Heart Valve Disease</i> , 2011 , 20, 5-12			4
70	Effects of Ablation (Radio Frequency, Cryo, Microwave) on Physiologic Properties of the Human Vastus Lateralis. <i>IEEE Transactions on Biomedical Engineering</i> , 2018 , 65, 2202-2209	5		3
69	The novel in vitro reanimation of isolated human and large mammalian heart-lung blocs. <i>BMC Physiology</i> , 2016 , 16, 4	0		3
68	Testing the Efficacy of Pharmacological Agents in a Pericardial Target Delivery Model in the Swine. <i>Journal of Visualized Experiments</i> , 2016 ,	1.6		3
67	Multimodal imaging of a self-expanding transcatheter aortic valve replacement (TAVR) procedure in a reanimated human heart and post-implant analyses. <i>International Journal of Cardiovascular Imaging</i> , 2019 , 35, 2135-2137	2.5		3
66	Reversible and Irreversible Damage of the Myocardium: Ischemia/Reperfusion Injury and Cardioprotection 2015 , 279-293			3
65	The benefits of the Atlas of Human Cardiac Anatomy website for the design of cardiac devices. <i>Expert Review of Medical Devices</i> , 2013 , 10, 729-34	3.5		3

64	The design and use of an optical mapping system for the study of intracardiac electrical signaling. <i>Indian Pacing and Electrophysiology Journal</i> , 2012 , 12, 138-51	1.5	3
63	The Pericardium 2009 , 125-136		3
62	Imaging in the context of replacement heart valve development: use of the Visible Heart(®) methodologies. <i>Cardiovascular Diagnosis and Therapy</i> , 2012 , 2, 220-30	2.6	3
61	Visualization of catheter ablation for atrial fibrillation: Impact of devices and anatomy. <i>World Journal of Cardiology</i> , 2015 , 7, 754-64	2.1	3
60	Vitrification and Rewarming of Magnetic Nanoparticle-Loaded Rat Hearts. <i>Advanced Materials Technologies</i> , 2100873	6.8	3
59	Prospective isolation of human fibroadipogenic progenitors with CD73. <i>Heliyon</i> , 2020 , 6, e04503	3.6	3
58	A Simplified Model for the Assessment of Ex Vivo Lung Perfusion Methodologies and Treatments1. <i>Journal of Medical Devices, Transactions of the ASME</i> , 2016 , 10,	1.3	3
57	The fixation tines of the Micra® leadless pacemaker are atraumatic to the tricuspid valve. <i>PACE - Pacing and Clinical Electrophysiology</i> , 2018 , 41, 1606-1610	1.6	3
56	Algorithm for the analysis of pre-extraction computed tomographic images to evaluate implanted lead-lead interactions and lead-vascular attachments. <i>Heart Rhythm</i> , 2020 , 17, 1009-1016	6.7	2
55	Prolonged extracorporeal preservation and evaluation of human lungs with portable normothermic ex vivo perfusion. <i>Clinical Transplantation</i> , 2020 , 34, e13801	3.8	2
54	Assessment of Ablative Therapies in Swine: Response of Respiratory Diaphragm to Varying Doses. <i>Annals of Biomedical Engineering</i> , 2018 , 46, 947-959	4.7	2
53	The Visible Heart® project and methodologies: novel use for studying cardiac monophasic action potentials and evaluating their underlying mechanisms. <i>Expert Review of Medical Devices</i> , 2018 , 15, 467-477	2.5	2
52	Direct visualization of induced steam pops during radiofrequency ablation. <i>HeartRhythm Case Reports</i> , 2015 , 1, 264-265	1	2
51	Anatomical reconstructions of the human cardiac venous system using contrast-computed tomography of perfusion-fixed specimens. <i>Journal of Visualized Experiments</i> , 2013 ,	1.6	2
50	Malignant hyperthermia [Update of diagnostics. <i>Trends in Anaesthesia and Critical Care</i> , 2012 , 2, 218-223	0.4	2
49	Irreversible Electroporation of Cardiovascular Cells and Tissues. <i>Journal of Medical Devices, Transactions of the ASME</i> , 2013 , 7,	1.3	2
48	Novel visualization of intracardiac pacing lead extractions: methodologies performed within isolated canine hearts. <i>Journal of Interventional Cardiac Electrophysiology</i> , 2009 , 24, 27-31	2.4	2
47	Direct Visualization of TAVR-Related Coronary Artery Management Techniques in Reanimated Beating Hearts. <i>JACC: Cardiovascular Interventions</i> , 2021 , 14, e87-e91	5	2

46	Three dimensional reconstruction of coronary artery stents from optical coherence tomography: experimental validation and clinical feasibility. <i>Scientific Reports</i> , 2021 , 11, 12252	4.9	2
45	Direct endoscopic visualization of physiological His-bundle pacing and surrounding anatomy within reanimated human hearts using visible heart methodologies. <i>HeartRhythm Case Reports</i> , 2019 , 5, 209-212	1	2
44	The Coronary Vascular System and Associated Medical Devices 2015 , 137-161		1
43	First Successful Open-Heart Surgery Utilizing Cross-Circulation in 1954. <i>Annals of Thoracic Surgery</i> , 2020 , 110, 336-341	2.7	1
42	Multimodal functional and still imaging of a transplanted human heart reanimated using Visible Heart [®] methodologies. <i>Journal of Cardiac Surgery</i> , 2020 , 35, 668-671	1.3	1
41	Isometric skeletal muscle force measurement in primary myopathies. <i>Muscle and Nerve</i> , 2016 , 53, 913-7	3.4	1
40	Direct visualization of the removal of chronically implanted pacing leads from an unfixed human cadaver. <i>HeartRhythm Case Reports</i> , 2018 , 4, 170-172	1	1
39	Induced functional modulations of isolated large mammalian hearts. <i>Pflugers Archiv European Journal of Physiology</i> , 2019 , 471, 1095-1101	4.6	1
38	Physiological Tissue Response to Various Ablative Modalities ¹ . <i>Journal of Medical Devices, Transactions of the ASME</i> , 2014 , 8,	1.3	1
37	The Pericardium 2015 , 163-174		1
36	Modeling of Induced Electric Fields as a Function of Cardiac Anatomy and Venous Pacing Lead Location. <i>Cardiovascular Engineering and Technology</i> , 2011 , 2, 399-407	2.2	1
35	Isolated Heart Models 2010 , 249-260		1
34	Multimodal imaging employed during extraction of pacing or defibrillator leads from perfusion-fixed human hearts. <i>HeartRhythm Case Reports</i> , 2020 , 6, 918-921	1	1
33	Assessment of single and double coronary bifurcation stenting techniques using multimodal imaging and 3D modeling in reanimated swine hearts using Visible Heart [®] methodologies. <i>International Journal of Cardiovascular Imaging</i> , 2021 , 37, 2591-2601	2.5	1
32	In Vitro Evaluations of Cardiac Mapping Catheters Designs and Utilities: Employing Visible Heart [®] Methodologies ¹ . <i>Journal of Medical Devices, Transactions of the ASME</i> , 2016 , 10,	1.3	1
31	Tissue Necrosis Associated With Chemical Ablations ¹ . <i>Journal of Medical Devices, Transactions of the ASME</i> , 2016 , 10,	1.3	1
30	A Device to Aid in Quantifying Lung Compliance and Edema ¹ . <i>Journal of Medical Devices, Transactions of the ASME</i> , 2016 , 10,	1.3	1
29	The quantitative assessment of epicardial fat distribution on human hearts: Implications for epicardial electrophysiology. <i>Clinical Anatomy</i> , 2018 , 31, 661-666	2.5	0

28	Effects of ATP administration on isolated swine hearts: Implications for perfusion and cardiac transplantation. <i>Experimental Biology and Medicine</i> , 2019 , 244, 915-922	3.7	○
27	contractile studies within isolated tissue baths: Translational research from Visible Heart Laboratories.. <i>Experimental Biology and Medicine</i> , 2022 , 15353702211070535	3.7	○
26	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		○
25	Compartment Syndrome: Evaluation of Skeletal Muscle Ischemia and Physiologic Biomarkers in Controlled Conditions Within Ex Vivo Isolated Muscle Bundles. <i>Journal of Orthopaedic Trauma</i> , 2020 , 34, 518-523	3.1	○
24	Impact of statin intake on malignant hyperthermia: an in vitro and in vivo swine study. <i>BMC Anesthesiology</i> , 2020 , 20, 270	2.4	○
23	Importance of Human Cadaver Studies in Education and Medical Device Research 2019 , 255-280		○
22	Contact Forces Required to Record Monophasic Action Potentials: A Complement to Catheter Contact Force Measurement. <i>IEEE Transactions on Biomedical Engineering</i> , 2019 , 66, 2974-2978	5	
21	The Use of Isolated Heart Models and Anatomical Specimens as Means to Enhance the Design and Testing of Cardiac Devices 2015 , 751-764		
20	Virtual Prototyping: Computational Device Placements within Detailed Human Heart Models. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 175	2.6	
19	The Ability to Reproducibly Record Cardiac Action Potentials From Multiple Anatomic Locations: Endocardially and Epicardially, In Situ and In Vitro. <i>IEEE Transactions on Biomedical Engineering</i> , 2019 , 66, 159-164	5	
18	Direct visualization of an atrial transeptal left ventricular endocardial lead implantation within an isolated heart. <i>HeartRhythm Case Reports</i> , 2015 , 1, 107-109	1	
17	Pacing and Defibrillation 2015 , 543-575		
16	The Use of Isolated Heart Models and Anatomic Specimens as Means to Enhance the Design and Testing of Cardiac Valve Therapies 2013 , 359-380		
15	The functional anatomy of human cardiac valves and unique visualization of transcatheter-delivered valves being deployed. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2009 , 2009, 1038-9	0.9	
14	Global electrophysiological and hemodynamic assessment of ventricular pacing employing non-contact mapping. <i>Journal of Interventional Cardiac Electrophysiology</i> , 2009 , 26, 185-94	2.4	
13	Transcatheter Valve Repair and Replacement 2015 , 671-683		
12	Transcatheter Valve Repair and Replacement 2009 , 561-569		
11	Videoscopic images of unique septal and medial papillary muscle complexes recorded from reanimated human hearts. <i>FASEB Journal</i> , 2012 , 26, 726.10	0.9	

- 10 Estimating Water Loss During Hibernation in the American Black Bear (*Ursus americanus*). *FASEB Journal*, **2012**, 26, 1071.13 0.9
- 9 Novel visualization of iatrogenic atrial septal defects and ablation lesions in a reanimated human heart. *FASEB Journal*, **2012**, 26, 726.9 0.9
- 8 The Atlas of Human Cardiac Anatomy: A free-access educational website. *FASEB Journal*, **2012**, 26, 529.17.9
- 7 High speed imaging of an aortic valve in a full-functional reanimated human heart. *FASEB Journal*, **2012**, 26, 726.8 0.9
- 6 Novel imaging of the implantation of left-sided pacing leads within reanimated swine hearts. *FASEB Journal*, **2012**, 26, 523.2 0.9
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