

James J Pilla

List of Publications by Year in descending order

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Version: 2024-02-01

48
papers

1,410
citations

304743

22
h-index

330143

37
g-index

50
all docs

50
docs citations

50
times ranked

1805
citing authors

#	ARTICLE	IF	CITATIONS
1	A technique for in vivo mapping of myocardial creatine kinase metabolism. <i>Nature Medicine</i> , 2014, 20, 209-214.	30.7	168
2	Injectable Shear-Thinning Hydrogels for Minimally Invasive Delivery to Infarcted Myocardium to Limit Left Ventricular Remodeling. <i>Circulation: Cardiovascular Interventions</i> , 2016, 9, .	3.9	98
3	Cardiac Support Device Modifies Left Ventricular Geometry and Myocardial Structure After Myocardial Infarction. <i>Circulation</i> , 2005, 112, 1274-1283.	1.6	93
4	MRI evaluation of injectable hyaluronic acid-based hydrogel therapy to limit ventricular remodeling after myocardial infarction. <i>Biomaterials</i> , 2015, 69, 65-75.	11.4	91
5	In vivo chronic myocardial infarction characterization by spin locked cardiovascular magnetic resonance. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2012, 14, 37.	3.3	65
6	Estimating passive mechanical properties in a myocardial infarction using MRI and finite element simulations. <i>Biomechanics and Modeling in Mechanobiology</i> , 2015, 14, 633-647.	2.8	53
7	Ventricular Restraint Prevents Infarct Expansion and Improves Borderzone Function After Myocardial Infarction: A Study Using Magnetic Resonance Imaging, Three-Dimensional Surface Modeling, and Myocardial Tagging. <i>Annals of Thoracic Surgery</i> , 2007, 84, 2004-2010.	1.3	50
8	Deformation analysis of 3D tagged cardiac images using an optical flow method. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2010, 12, 19.	3.3	46
9	Rotating frame spin lattice relaxation in a swine model of chronic, left ventricular myocardial infarction. <i>Magnetic Resonance in Medicine</i> , 2010, 64, 1453-1460.	3.0	43
10	Noninvasive Measurement of the Human Brachial Artery Pressure-Area Relation in Collapse and Hypertension. <i>Annals of Biomedical Engineering</i> , 1998, 26, 965-974.	2.5	42
11	Early Postinfarction Ventricular Restraint Improves Borderzone Wall Thickening Dynamics During Remodeling. <i>Annals of Thoracic Surgery</i> , 2005, 80, 2257-2262.	1.3	42
12	Preclinical Evaluation of the Engineered Stem Cell Chemokine Stromal Cell-Derived Factor 1 Analog in a Translational Ovine Myocardial Infarction Model. <i>Circulation Research</i> , 2014, 114, 650-659.	4.5	42
13	Stabilization of Chronic Remodeling by Asynchronous Cardiomyoplasty in Dilated Cardiomyopathy. <i>Circulation</i> , 1997, 96, 3665-3671.	1.6	41
14	Dynamic cardiomyoplasty: Its chronic and acute effects on the failing heart. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 1997, 114, 169-178.	0.8	37
15	Ventricular Constraint Using the Acorn Cardiac Support Device Reduces Myocardial Akinetic Area in an Ovine Model of Acute Infarction. <i>Circulation</i> , 2002, 106, .	1.6	35
16	Ventricular constraint using the acorn cardiac support device reduces myocardial akinetic area in an ovine model of acute infarction. <i>Circulation</i> , 2002, 106, 1207-11.	1.6	35
17	The Influence of Mitral Annuloplasty on Left Ventricular Flow Dynamics. <i>Annals of Thoracic Surgery</i> , 2015, 100, 114-121.	1.3	34
18	Theoretic Impact of Infarct Compliance on Left Ventricular Function. <i>Annals of Thoracic Surgery</i> , 2009, 87, 803-810.	1.3	32

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19	Passive ventricular constraint to improve left ventricular function and mechanics in an ovine model of heart failure secondary to acute myocardial infarction. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2003, 126, 1467-1475.	0.8	29
20	Infarct Size Reduction and Attenuation of Global Left Ventricular Remodeling with the CorCap™ Cardiac Support Device Following Acute Myocardial Infarction in Sheep. <i>Heart Failure Reviews</i> , 2005, 10, 125-139.	3.9	28
21	Temporal Changes in Infarct Material Properties: An In Vivo Assessment Using Magnetic Resonance Imaging and Finite Element Simulations. <i>Annals of Thoracic Surgery</i> , 2015, 100, 582-589.	1.3	28
22	Assessment of myocardial injury after reperfused infarction by T1ρ cardiovascular magnetic resonance. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2016, 19, 17.	3.3	24
23	Iron imaging in myocardial infarction reperfusion injury. <i>Nature Communications</i> , 2020, 11, 3273.	12.8	22
24	Regional Myocardial Three-Dimensional Principal Strains During Postinfarction Remodeling. <i>Annals of Thoracic Surgery</i> , 2015, 99, 770-778.	1.3	21
25	Optimized Local Infarct Restraint Improves Left Ventricular Function and Limits Remodeling. <i>Annals of Thoracic Surgery</i> , 2013, 95, 155-162.	1.3	19
26	Cardiac-respiratory gating method for magnetic resonance imaging of the heart. <i>Magnetic Resonance in Medicine</i> , 2000, 43, 314-318.	3.0	18
27	Real-Time Magnetic Resonance Imaging Technique for Determining Left Ventricle Pressure-Volume Loops. <i>Annals of Thoracic Surgery</i> , 2014, 97, 1597-1603.	1.3	18
28	Effects of using the unloaded configuration in predicting the <i>in vivo</i> diastolic properties of the heart. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2016, 19, 1714-1720.	1.6	18
29	Computational Modeling of Healthy Myocardium in Diastole. <i>Annals of Biomedical Engineering</i> , 2016, 44, 980-992.	2.5	18
30	Effects of hydrogel injection on borderzone contractility post-myocardial infarction. <i>Biomechanics and Modeling in Mechanobiology</i> , 2018, 17, 1533-1542.	2.8	18
31	MR COMPATIBLE GATING SYSTEM FOR IMAGING OF DYNAMIC CARDIOMYOPLASTY AND CARDIAC PACING. <i>ASAIO Journal</i> , 1999, 45, 131.	1.6	14
32	Injectable Microsphere Gel Progressively Improves Global Ventricular Function, Regional Contractile Strain, and Mitral Regurgitation After Myocardial Infarction. <i>Annals of Thoracic Surgery</i> , 2015, 99, 597-603.	1.3	10
33	Computational Investigation of Transmural Differences in Left Ventricular Contractility. <i>Journal of Biomechanical Engineering</i> , 2016, 138, .	1.3	10
34	Self-gated MRI of multiple beat morphologies in the presence of arrhythmias. <i>Magnetic Resonance in Medicine</i> , 2017, 78, 678-688.	3.0	9
35	Determination of Global Function and Regional Mechanics of Dynamic Cardiomyoplasty Using Magnetic Resonance Imaging. <i>ASAIO Journal</i> , 1998, 44, M491-M495.	1.6	8
36	Assessment of Synchronized Direct Mechanical Ventricular Actuation in a Canine Model of Left Ventricular Dysfunction. <i>ASAIO Journal</i> , 2000, 46, 756-760.	1.6	6

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37	Directed Epicardial Assistance in Ischemic Cardiomyopathy: Flow and Function Using Cardiac Magnetic Resonance Imaging. <i>Annals of Thoracic Surgery</i> , 2013, 96, 577-585.	1.3	6
38	Modified Rapid Ventricular Pacing. <i>ASAIO Journal</i> , 1998, 44, 799-803.	1.6	5
39	Dynamic Cardiomyoplasty Decreases Myocardial Workload as Assessed by Tissue Tagged MRI. <i>ASAIO Journal</i> , 2000, 46, 556-562.	1.6	4
40	Magnetic susceptibility and R2* of myocardial reperfusion injury at 3T and 7T. <i>Magnetic Resonance in Medicine</i> , 2022, 87, 323-336.	3.0	4
41	Minimally Invasive Delivery of a Novel Direct Epicardial Assist Device in a Porcine Heart Failure Model. <i>Innovations: Technology and Techniques in Cardiothoracic and Vascular Surgery</i> , 2014, 9, 16-21.	0.9	3
42	Slice-by-Slice Pressure-Volume Loop Analysis Demonstrates Native Differences in Regional Cardiac Contractility and Response to Inotropic Agents. <i>Annals of Thoracic Surgery</i> , 2016, 102, 796-802.	1.3	3
43	Design of a dynamic heart phantom for magnetic resonance imaging. , 2009, , .		2
44	Closed-loop control of k-space sampling via physiologic feedback for cine MRI. <i>PLoS ONE</i> , 2020, 15, e0244286.	2.5	2
45	Development of a dynamic heart phantom prototype for Magnetic Resonance Imaging. , 2010, , .		1
46	Continuous adaptive radial sampling of k-space from real-time physiologic feedback in MRI. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2015, 17, P37.	3.3	1
47	A Novel Approach to Quantify Alterations in Ventricular Principal Strain Vectors Secondary to Ischemic Injury. , 2010, , .		0
48	Minimally Invasive Delivery of a Novel Direct Epicardial Assist Device in a Porcine Heart Failure Model. <i>Innovations: Technology and Techniques in Cardiothoracic and Vascular Surgery</i> , 2014, 9, 16-21.	0.9	0