James J Pilla

List of Publications by Year
in descending order

48	1,410	304743	330143
papers	citations	22 h-index	37 g-index

50	50	50	1805
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Magnetic susceptibility and R2* of myocardial reperfusion injury at 3T and 7T. Magnetic Resonance in Medicine, 2022, 87, 323-336.	3.0	4
2	Iron imaging in myocardial infarction reperfusion injury. Nature Communications, 2020, 11, 3273.	12.8	22
3	Closed-loop control of k-space sampling via physiologic feedback for cine MRI. PLoS ONE, 2020, 15, e0244286.	2.5	2
4	Effects of hydrogel injection on borderzone contractility post-myocardial infarction. Biomechanics and Modeling in Mechanobiology, 2018, 17, 1533-1542.	2.8	18
5	Self-gated MRI of multiple beat morphologies in the presence of arrhythmias. Magnetic Resonance in Medicine, 2017, 78, 678-688.	3.0	9
6	Computational Investigation of Transmural Differences in Left Ventricular Contractility. Journal of Biomechanical Engineering, 2016, 138, .	1.3	10
7	Slice-by-Slice Pressure-Volume Loop Analysis Demonstrates Native Differences in Regional Cardiac Contractility and Response to Inotropic Agents. Annals of Thoracic Surgery, 2016, 102, 796-802.	1.3	3
8	Effects of using the unloaded configuration in predicting the in vivo diastolic properties of the heart. Computer Methods in Biomechanics and Biomedical Engineering, 2016, 19, 1714-1720.	1.6	18
9	Injectable Shear-Thinning Hydrogels for Minimally Invasive Delivery to Infarcted Myocardium to Limit Left Ventricular Remodeling. Circulation: Cardiovascular Interventions, 2016, 9, .	3.9	98
10	Computational Modeling of Healthy Myocardium in Diastole. Annals of Biomedical Engineering, 2016, 44, 980-992.	2.5	18
11	Assessment of myocardial injury after reperfused infarction by T1Ï•cardiovascular magnetic resonance. Journal of Cardiovascular Magnetic Resonance, 2016, 19, 17.	3.3	24
12	Estimating passive mechanical properties in a myocardial infarction using MRI and finite element simulations. Biomechanics and Modeling in Mechanobiology, 2015, 14, 633-647.	2.8	53
13	Injectable Microsphere Gel Progressively ImprovesÂGlobal Ventricular Function, Regional Contractile Strain, and Mitral Regurgitation AfterÂMyocardial Infarction. Annals of Thoracic Surgery, 2015, 99, 597-603.	1.3	10
14	Regional Myocardial Three-Dimensional Principal Strains During Postinfarction Remodeling. Annals of Thoracic Surgery, 2015, 99, 770-778.	1.3	21
15	Continuous adaptive radial sampling of k-space from real-time physiologic feedback in MRI. Journal of Cardiovascular Magnetic Resonance, 2015, 17, P37.	3.3	1
16	The Influence of Mitral Annuloplasty on Left Ventricular Flow Dynamics. Annals of Thoracic Surgery, 2015, 100, 114-121.	1.3	34
17	Temporal Changes in Infarct Material Properties: An InÂVivo Assessment Using Magnetic Resonance Imaging and Finite Element Simulations. Annals of Thoracic Surgery, 2015, 100, 582-589.	1.3	28
18	MRI evaluation of injectable hyaluronic acid-based hydrogel therapy to limit ventricular remodeling after myocardial infarction. Biomaterials, 2015, 69, 65-75.	11.4	91

#	Article	IF	Citations
19	Preclinical Evaluation of the Engineered Stem Cell Chemokine Stromal Cellâ€"Derived Factor 1Î± Analog in a Translational Ovine Myocardial Infarction Model. Circulation Research, 2014, 114, 650-659.	4.5	42
20	Minimally Invasive Delivery of a Novel Direct Epicardial Assist Device in a Porcine Heart Failure Model. Innovations: Technology and Techniques in Cardiothoracic and Vascular Surgery, 2014, 9, 16-21.	0.9	3
21	A technique for in vivo mapping of myocardial creatine kinase metabolism. Nature Medicine, 2014, 20, 209-214.	30.7	168
22	Real-Time Magnetic Resonance Imaging TechniqueÂfor Determining Left Ventricle Pressure-Volume Loops. Annals of Thoracic Surgery, 2014, 97, 1597-1603.	1.3	18
23	Minimally Invasive Delivery of a Novel Direct Epicardial Assist Device in a Porcine Heart Failure Model. Innovations: Technology and Techniques in Cardiothoracic and Vascular Surgery, 2014, 9, 16-21.	0.9	0
24	Optimized Local Infarct Restraint Improves Left Ventricular Function and Limits Remodeling. Annals of Thoracic Surgery, 2013, 95, 155-162.	1.3	19
25	Directed Epicardial Assistance in Ischemic Cardiomyopathy: Flow and Function Using CardiacÂMagnetic Resonance Imaging. Annals of Thoracic Surgery, 2013, 96, 577-585.	1.3	6
26	In vivo chronic myocardial infarction characterization by spin locked cardiovascular magnetic resonance. Journal of Cardiovascular Magnetic Resonance, 2012, 14, 37.	3.3	65
27	Rotating frame spin lattice relaxation in a swine model of chronic, left ventricular myocardial infarction. Magnetic Resonance in Medicine, 2010, 64, 1453-1460.	3.0	43
28	Deformation analysis of 3D tagged cardiac images using an optical flow method. Journal of Cardiovascular Magnetic Resonance, 2010, 12, 19.	3.3	46
29	Development of a dynamic heart phantom prototype for Magnetic Resonance Imaging. , 2010, , .		1
30	A Novel Approach to Quantify Alterations in Ventricular Principal Strain Vectors Secondary to Ischemic Injury. , 2010, , .		0
31	Theoretic Impact of Infarct Compliance on Left Ventricular Function. Annals of Thoracic Surgery, 2009, 87, 803-810.	1.3	32
32	Design of a dynamic heart phantom for magnetic resonance imaging. , 2009, , .		2
33	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. Annals of Thoracic Surgery, 2007, 84, 2004-2010.	1.3	50
34	Infarct Size Reduction and Attenuation of Global Left Ventricular Remodeling with the CorCapTM Cardiac Support Device Following Acute Myocardial Infarction in Sheep. Heart Failure Reviews, 2005, 10, 125-139.	3.9	28
35	Cardiac Support Device Modifies Left Ventricular Geometry and Myocardial Structure After Myocardial Infarction. Circulation, 2005, 112, 1274-1283.	1.6	93
36	Early Postinfarction Ventricular Restraint Improves Borderzone Wall Thickening Dynamics During Remodeling. Annals of Thoracic Surgery, 2005, 80, 2257-2262.	1.3	42

#	Article	IF	Citations
37	Passive ventricular constraint to improve left ventricular function and mechanics in an ovine model of heart failure secondary to acute myocardial infarction. Journal of Thoracic and Cardiovascular Surgery, 2003, 126, 1467-1475.	0.8	29
38	Ventricular Constraint Using the Acorn Cardiac Support Device Reduces Myocardial Akinetic Area in an Ovine Model of Acute Infarction. Circulation, 2002, 106, .	1.6	35
39	Ventricular constraint using the acorn cardiac support device reduces myocardial akinetic area in an ovine model of acute infarction. Circulation, 2002, 106, I207-11.	1.6	35
40	Dynamic Cardiomyoplasty Decreases Myocardial Workload as Assessed by Tissue Tagged MRI. ASAIO Journal, 2000, 46, 556-562.	1.6	4
41	Cardiac-respiratory gating method for magnetic resonance imaging of the heart. Magnetic Resonance in Medicine, 2000, 43, 314-318.	3.0	18
42	Assessment of Synchronized Direct Mechanical Ventricular Actuation in a Canine Model of Left Ventricular Dysfunction. ASAIO Journal, 2000, 46, 756-760.	1.6	6
43	MR COMPATIBLE GATING SYSTEM FOR IMAGING OF DYNAMIC CARDIOMYOPLASTY AND CARDIAC PACING. ASAIO Journal, 1999, 45, 131.	1.6	14
44	Noninvasive Measurement of the Human Brachial Artery Pressureâ€“Area Relation in Collapse and Hypertension. Annals of Biomedical Engineering, 1998, 26, 965-974.	2.5	42
45	Determination of Global Function and Regional Mechanics of Dynamic Cardiomyoplasty Using Magnetic Resonance Imaging. ASAIO Journal, 1998, 44, M491-M495.	1.6	8
46	Modified Rapid Ventricular Pacing. ASAIO Journal, 1998, 44, 799-803.	1.6	5
47	Dynamic cardiomyoplasty: Its chronic and acute effects on the failing heart. Journal of Thoracic and Cardiovascular Surgery, 1997, 114, 169-178.	0.8	37
48	Stabilization of Chronic Remodeling by Asynchronous Cardiomyoplasty in Dilated Cardiomyopathy. Circulation, 1997, 96, 3665-3671.	1.6	41