

Robert C Gorman

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.

275 papers	9,287 citations	53 h-index	82 g-index
290 ext. papers	10,527 ext. citations	4.8 avg, IF	5.61 L-index

#	Paper	IF	Citations
275	Effect of annular shape on leaflet curvature in reducing mitral leaflet stress. <i>Circulation</i> , 2002 , 106, 711-716	16.7	348
274	Injectable and bioresponsive hydrogels for on-demand matrix metalloproteinase inhibition. <i>Nature Materials</i> , 2014 , 13, 653-61	27	346
273	Injectable hydrogel properties influence infarct expansion and extent of postinfarction left ventricular remodeling in an ovine model. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 11507-12	11.5	231
272	Region- and type-specific induction of matrix metalloproteinases in post-myocardial infarction remodeling. <i>Circulation</i> , 2003 , 107, 2857-63	16.7	173
271	Extension of borderzone myocardium in postinfarction dilated cardiomyopathy. <i>Journal of the American College of Cardiology</i> , 2002 , 40, 1160-7; discussion 1168-71	15.1	170
270	Expression of matrix metalloproteinases and endogenous inhibitors within ascending aortic aneurysms of patients with bicuspid or tricuspid aortic valves. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2007 , 133, 1028-36	1.5	163
269	Dynamic three-dimensional imaging of the mitral valve and left ventricle by rapid sonomicrometry array localization. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 1996 , 112, 712-26	1.5	158
268	Advances in the treatment of acute type A dissection: an integrated approach. <i>Annals of Thoracic Surgery</i> , 2002 , 74, S1848-52; discussion S1857-63	2.7	152
267	Restraining infarct expansion preserves left ventricular geometry and function after acute anteroapical infarction. <i>Circulation</i> , 1999 , 99, 135-42	16.7	136
266	New paradigms and improved results for the surgical treatment of acute type A dissection. <i>Annals of Surgery</i> , 2001 , 234, 336-42; discussion 342-3	7.8	133
265	A technique for in vivo mapping of myocardial creatine kinase metabolism. <i>Nature Medicine</i> , 2014 , 20, 209-14	50.5	128
264	Annuloplasty ring selection for chronic ischemic mitral regurgitation: lessons from the ovine model. <i>Annals of Thoracic Surgery</i> , 2003 , 76, 1556-63	2.7	113
263	In-vivo dynamic deformation of the mitral valve anterior leaflet. <i>Annals of Thoracic Surgery</i> , 2006 , 82, 1369-77	2.7	111
262	Pathogenesis of acute ischemic mitral regurgitation in three dimensions. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 1995 , 109, 684-93	1.5	108
261	Influence of injectable hyaluronic acid hydrogel degradation behavior on infarction-induced ventricular remodeling. <i>Biomacromolecules</i> , 2011 , 12, 4127-35	6.9	107
260	Reduction of ischemia/reperfusion injury with bendavia, a mitochondria-targeting cytoprotective Peptide. <i>Journal of the American Heart Association</i> , 2012 , 1, e001644	6	107
259	Acellular biomaterials: an evolving alternative to cell-based therapies. <i>Science Translational Medicine</i> , 2013 , 5, 176ps4	17.5	99

258	Pathogenesis of acute aortic dissection: a finite element stress analysis. <i>Annals of Thoracic Surgery</i> , 2011 , 91, 458-63	2.7	98
257	Expression of matrix metalloproteinases and endogenous inhibitors within ascending aortic aneurysms of patients with Marfan syndrome. <i>Circulation</i> , 2006 , 114, 1365-70	16.7	98
256	Infarct size and location determine development of mitral regurgitation in the sheep model. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 1998 , 115, 615-22	1.5	96
255	The effect of regional ischemia on mitral valve annular saddle shape. <i>Annals of Thoracic Surgery</i> , 2004 , 77, 544-8	2.7	96
254	Allogeneic mesenchymal precursor cell therapy to limit remodeling after myocardial infarction: the effect of cell dosage. <i>Annals of Thoracic Surgery</i> , 2009 , 87, 794-801	2.7	93
253	Selective microRNA suppression in human thoracic aneurysms: relationship of miR-29a to aortic size and proteolytic induction. <i>Circulation: Cardiovascular Genetics</i> , 2011 , 4, 605-13		91
252	A saddle-shaped annulus reduces systolic strain on the central region of the mitral valve anterior leaflet. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2007 , 134, 1562-8	1.5	90
251	Sustained release of endothelial progenitor cell-derived extracellular vesicles from shear-thinning hydrogels improves angiogenesis and promotes function after myocardial infarction. <i>Cardiovascular Research</i> , 2018 , 114, 1029-1040	9.9	89
250	Distortions of the mitral valve in acute ischemic mitral regurgitation. <i>Annals of Thoracic Surgery</i> , 1997 , 64, 1026-31	2.7	88
249	Mesenchymal cell transplantation and myocardial remodeling after myocardial infarction. <i>Circulation</i> , 2009 , 120, S220-9	16.7	86
248	Cardiac support device modifies left ventricular geometry and myocardial structure after myocardial infarction. <i>Circulation</i> , 2005 , 112, 1274-83	16.7	85
247	Metabolite Exchange between Mammalian Organs Quantified in Pigs. <i>Cell Metabolism</i> , 2019 , 30, 594-606.e13	2.3	84
246	Local hydrogel release of recombinant TIMP-3 attenuates adverse left ventricular remodeling after experimental myocardial infarction. <i>Science Translational Medicine</i> , 2014 , 6, 223ra21	17.5	78
245	On the in vivo deformation of the mitral valve anterior leaflet: effects of annular geometry and referential configuration. <i>Annals of Biomedical Engineering</i> , 2012 , 40, 1455-67	4.7	78
244	Aortic size in acute type A dissection: implications for preventive ascending aortic replacement. <i>European Journal of Cardio-thoracic Surgery</i> , 2009 , 35, 941-5; discussion 945-6	3	76
243	MRI evaluation of injectable hyaluronic acid-based hydrogel therapy to limit ventricular remodeling after myocardial infarction. <i>Biomaterials</i> , 2015 , 69, 65-75	15.6	75
242	Oxidative stress modulates vascular smooth muscle cell phenotype via CTGF in thoracic aortic aneurysm. <i>Cardiovascular Research</i> , 2013 , 100, 316-24	9.9	75
241	Injectable Shear-Thinning Hydrogels for Minimally Invasive Delivery to Infarcted Myocardium to Limit Left Ventricular Remodeling. <i>Circulation: Cardiovascular Interventions</i> , 2016 , 9,	6	72

240	Three-dimensional echocardiographic analysis of mitral annular dynamics: implication for annuloplasty selection. <i>Circulation</i> , 2012 , 126, S183-8	16.7	71
239	Saddle shape of the mitral annulus reduces systolic strains on the P2 segment of the posterior mitral leaflet. <i>Annals of Thoracic Surgery</i> , 2009 , 88, 1499-504	2.7	71
238	Algisyl-LVR with coronary artery bypass grafting reduces left ventricular wall stress and improves function in the failing human heart. <i>International Journal of Cardiology</i> , 2013 , 168, 2022-8	3.2	69
237	Prevention of ischemic mitral regurgitation does not influence the outcome of remodeling after posterolateral myocardial infarction. <i>Journal of the American College of Cardiology</i> , 2004 , 43, 377-83	15.1	69
236	Border zone geometry increases wall stress after myocardial infarction: contrast echocardiographic assessment. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2003 , 284, H475-9	5.2	68
235	Increased ascending aortic wall stress in patients with bicuspid aortic valves. <i>Annals of Thoracic Surgery</i> , 2011 , 92, 1384-9	2.7	67
234	An ovine model of postinfarction dilated cardiomyopathy. <i>Annals of Thoracic Surgery</i> , 2002 , 74, 753-60	2.7	64
233	The influence of annuloplasty ring geometry on mitral leaflet curvature. <i>Annals of Thoracic Surgery</i> , 2008 , 86, 749-60; discussion 749-60	2.7	63
232	Changes in mitral valve annular geometry after repair: saddle-shaped versus flat annuloplasty rings. <i>Annals of Thoracic Surgery</i> , 2010 , 90, 1212-20	2.7	62
231	An inverse modeling approach for stress estimation in mitral valve anterior leaflet valvuloplasty for in-vivo valvular biomaterial assessment. <i>Journal of Biomechanics</i> , 2014 , 47, 2055-63	2.9	60
230	Basal and oxidative stress-induced expression of metallothionein is decreased in ascending aortic aneurysms of bicuspid aortic valve patients. <i>Circulation</i> , 2009 , 119, 2498-506	16.7	60
229	Effect of ventricular size and patch stiffness in surgical anterior ventricular restoration: a finite element model study. <i>Annals of Thoracic Surgery</i> , 2005 , 79, 185-93	2.7	58
228	Aortic dilatation with bicuspid aortic valves: cusp fusion correlates to matrix metalloproteinases and inhibitors. <i>Annals of Thoracic Surgery</i> , 2012 , 93, 457-63	2.7	57
227	Antioxidant enzymes reduce DNA damage and early activation of valvular interstitial cells in aortic valve sclerosis. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2013 , 33, e66-74	9.4	57
226	A novel method for quantifying the in-vivo mechanical effect of material injected into a myocardial infarction. <i>Annals of Thoracic Surgery</i> , 2011 , 92, 935-41	2.7	57
225	Infarct restraint attenuates remodeling and reduces chronic ischemic mitral regurgitation after postero-lateral infarction. <i>Annals of Thoracic Surgery</i> , 2002 , 74, 444-9; discussion 449	2.7	57
224	Heart Valve Biomechanics and Underlying Mechanobiology. <i>Comprehensive Physiology</i> , 2016 , 6, 1743-1780	10.7	56
223	Effect of Geometry on the Leaflet Stresses in Simulated Models of Congenital Bicuspid Aortic Valves. <i>Cardiovascular Engineering and Technology</i> , 2011 , 2, 48-56	2.2	56

222	Tricuspid annular geometry: a three-dimensional transesophageal echocardiographic study. <i>Journal of Cardiothoracic and Vascular Anesthesia</i> , 2013 , 27, 639-46	2.1	53
221	Ischemic mitral regurgitation: a quantitative three-dimensional echocardiographic analysis. <i>Annals of Thoracic Surgery</i> , 2011 , 91, 157-64	2.7	53
220	Three-dimensional echocardiographic assessment of changes in mitral valve geometry after valve repair. <i>Annals of Thoracic Surgery</i> , 2009 , 88, 1838-44	2.7	53
219	Three-dimensional ultrasound-derived physical mitral valve modeling. <i>Annals of Thoracic Surgery</i> , 2014 , 98, 691-4	2.7	51
218	Quantitative mitral valve modeling using real-time three-dimensional echocardiography: technique and repeatability. <i>Annals of Thoracic Surgery</i> , 2011 , 91, 165-71	2.7	51
217	Early ventricular restraint after myocardial infarction: extent of the wrap determines the outcome of remodeling. <i>Annals of Thoracic Surgery</i> , 2005 , 79, 881-7; discussion 881-7	2.7	51
216	In vivo chronic myocardial infarction characterization by spin locked cardiovascular magnetic resonance. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2012 , 14, 37	6.9	50
215	Description of regional mitral annular nonplanarity in healthy human subjects: a novel methodology. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2007 , 134, 644-8	1.5	48
214	Modification of infarct material properties limits adverse ventricular remodeling. <i>Annals of Thoracic Surgery</i> , 2011 , 92, 617-24	2.7	47
213	Dermal filler injection: a novel approach for limiting infarct expansion. <i>Annals of Thoracic Surgery</i> , 2009 , 87, 148-55	2.7	47
212	On the effects of leaflet microstructure and constitutive model on the closing behavior of the mitral valve. <i>Biomechanics and Modeling in Mechanobiology</i> , 2015 , 14, 1281-302	3.8	46
211	First evidence of depressed contractility in the border zone of a human myocardial infarction. <i>Annals of Thoracic Surgery</i> , 2012 , 93, 1188-93	2.7	45
210	Mild hypothermia to limit myocardial ischemia-reperfusion injury: importance of timing. <i>Annals of Thoracic Surgery</i> , 2009 , 87, 157-63	2.7	44
209	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, 2004-10	2.7	44
208	Quantification and simulation of layer-specific mitral valve interstitial cells deformation under physiological loading. <i>Journal of Theoretical Biology</i> , 2015 , 373, 26-39	2.3	43
207	Preoperative Three-Dimensional Valve Analysis Predicts Recurrent Ischemic Mitral Regurgitation After Mitral Annuloplasty. <i>Annals of Thoracic Surgery</i> , 2016 , 101, 567-75; discussion 575	2.7	42
206	Use of computational fluid dynamics studies in predicting aneurysmal degeneration of acute type B aortic dissections. <i>Journal of Vascular Surgery</i> , 2015 , 62, 279-84	3.5	42
205	A methodology for assessing human mitral leaflet curvature using real-time 3-dimensional echocardiography. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2008 , 136, 726-34	1.5	42

204	Fibrillin and other matrix proteins in mitral valve prolapse syndrome. <i>Annals of Thoracic Surgery</i> , 2004 , 77, 532-6	2.7	42
203	Dynamic 3-dimensional echocardiographic assessment of mitral annular geometry in patients with functional mitral regurgitation. <i>Annals of Thoracic Surgery</i> , 2013 , 95, 105-10	2.7	41
202	Mechanisms of the in vivo inhibition of calcification of bioprosthetic porcine aortic valve cusps and aortic wall with triglycidylamine/mercapto bisphosphonate. <i>Biomaterials</i> , 2007 , 28, 690-9	15.6	41
201	Human myxomatous mitral valve prolapse: role of bone morphogenetic protein 4 in valvular interstitial cell activation. <i>Journal of Cellular Physiology</i> , 2012 , 227, 2595-604	7	40
200	Estimating passive mechanical properties in a myocardial infarction using MRI and finite element simulations. <i>Biomechanics and Modeling in Mechanobiology</i> , 2015 , 14, 633-47	3.8	40
199	Regenerative healing following foetal myocardial infarction. <i>European Journal of Cardio-thoracic Surgery</i> , 2010 , 38, 691-8	3	40
198	Early postinfarction ventricular restraint improves borderzone wall thickening dynamics during remodeling. <i>Annals of Thoracic Surgery</i> , 2005 , 80, 2257-62	2.7	40
197	Regional annular geometry in patients with mitral regurgitation: implications for annuloplasty ring selection. <i>Annals of Thoracic Surgery</i> , 2014 , 97, 64-70	2.7	39
196	In vivo dynamic deformation of the mitral valve annulus. <i>Annals of Biomedical Engineering</i> , 2009 , 37, 1757-71	4.71	39
195	Fenfluramine disrupts the mitral valve interstitial cell response to serotonin. <i>American Journal of Pathology</i> , 2009 , 175, 988-97	5.8	39
194	Deformation analysis of 3D tagged cardiac images using an optical flow method. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2010 , 12, 19	6.9	39
193	Tunable hydrogel-microsphere composites that modulate local inflammation and collagen bulking. <i>Acta Biomaterialia</i> , 2012 , 8, 3218-27	10.8	37
192	Semi-automated mitral valve morphometry and computational stress analysis using 3D ultrasound. <i>Journal of Biomechanics</i> , 2012 , 45, 903-7	2.9	37
191	Noggin attenuates the osteogenic activation of human valve interstitial cells in aortic valve sclerosis. <i>Cardiovascular Research</i> , 2013 , 98, 402-10	9.9	36
190	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, 650-9	15.7	35
189	Akinetic myocardial infarcts must contain contracting myocytes: finite-element model study. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2005 , 288, H1844-50	5.2	34
188	Ventricular constraint using the acorn cardiac support device reduces myocardial akinetic area in an ovine model of acute infarction. <i>Circulation</i> , 2002 , 106, I207-11	16.7	34
187	Peak wall stress predicts expansion rate in descending thoracic aortic aneurysms. <i>Annals of Thoracic Surgery</i> , 2013 , 95, 593-8	2.7	33

186	Percutaneous transvenous Melody valve-in-ring procedure for mitral valve replacement. <i>Journal of the American College of Cardiology</i> , 2011 , 58, 2475-80	15.1	33
185	Saddle-shape annuloplasty increases mitral leaflet coaptation after repair for flail posterior leaflet. <i>Annals of Thoracic Surgery</i> , 2011 , 92, 797-803	2.7	33
184	Recommendations of the National Heart, Lung, and Blood Institute Working Group on Future Direction in Cardiac Surgery. <i>Circulation</i> , 2005 , 111, 3007-13	16.7	33
183	Local wall thickness in finite element models improves prediction of abdominal aortic aneurysm growth. <i>Journal of Vascular Surgery</i> , 2015 , 61, 217-23	3.5	32
182	Osteopontin-CD44v6 interaction mediates calcium deposition via phospho-Akt in valve interstitial cells from patients with noncalcified aortic valve sclerosis. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2014 , 34, 2086-94	9.4	32
181	Rotating frame spin lattice relaxation in a swine model of chronic, left ventricular myocardial infarction. <i>Magnetic Resonance in Medicine</i> , 2010 , 64, 1453-60	4.4	32
180	Surgical treatment of ischemic mitral regurgitation might not influence ventricular remodeling. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2005 , 129, 504-11	1.5	32
179	In vitro mitral valve simulator mimics systolic valvular function of chronic ischemic mitral regurgitation ovine model. <i>Annals of Thoracic Surgery</i> , 2013 , 95, 825-30	2.7	31
178	Theoretic impact of infarct compliance on left ventricular function. <i>Annals of Thoracic Surgery</i> , 2009 , 87, 803-10	2.7	31
177	Cyclosporine preserves mitochondrial morphology after myocardial ischemia/reperfusion independent of calcineurin inhibition. <i>Annals of Thoracic Surgery</i> , 2008 , 86, 1286-92	2.7	31
176	Regulation of valve interstitial cell homeostasis by mechanical deformation: implications for heart valve disease and surgical repair. <i>Journal of the Royal Society Interface</i> , 2017 , 14,	4.1	30
175	Infarct restraint to limit adverse ventricular remodeling. <i>Journal of Cardiovascular Translational Research</i> , 2011 , 4, 73-81	3.3	30
174	Very mild hypothermia during ischemia and reperfusion improves postinfarction ventricular remodeling. <i>Annals of Thoracic Surgery</i> , 2009 , 87, 172-7	2.7	29
173	The dynamic anterior mitral annulus. <i>Annals of Thoracic Surgery</i> , 2004 , 78, 1248-55	2.7	29
172	Fluorescence spectroscopy and imaging of myocardial apoptosis. <i>Journal of Biomedical Optics</i> , 2006 , 11, 064036	3.5	28
171	The Influence of Mitral Annuloplasty on Left Ventricular Flow Dynamics. <i>Annals of Thoracic Surgery</i> , 2015 , 100, 114-121	2.7	27
170	Melody valve-in-ring procedure for mitral valve replacement: feasibility in four annuloplasty types. <i>Annals of Thoracic Surgery</i> , 2012 , 93, 783-8	2.7	27
169	Circulating soluble receptor for advanced glycation end product identifies patients with bicuspid aortic valve and associated aortopathies. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2014 , 34, 2349-57	9.4	27

168	Regional and global patterns of annular remodeling in ischemic mitral regurgitation. <i>Annals of Thoracic Surgery</i> , 2007 , 84, 553-9	2.7	27
167	Mitral Valve Chordae Tendineae: Topological and Geometrical Characterization. <i>Annals of Biomedical Engineering</i> , 2017 , 45, 378-393	4.7	26
166	Development of a semi-automated method for mitral valve modeling with medial axis representation using 3D ultrasound. <i>Medical Physics</i> , 2012 , 39, 933-50	4.4	26
165	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, 125-39	5	26
164	Tricuspid annulus: a three-dimensional deconstruction and reconstruction. <i>Annals of Thoracic Surgery</i> , 2014 , 98, 1536-42	2.7	25
163	The emerging role of three-dimensional echocardiography in mitral valve repair. <i>Seminars in Thoracic and Cardiovascular Surgery</i> , 2006 , 18, 126-34	1.7	25
162	A Contemporary Look at Biomechanical Models of Myocardium. <i>Annual Review of Biomedical Engineering</i> , 2019 , 21, 417-442	12	24
161	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, 582-9	2.7	24
160	How Local Annular Force and Collagen Density Govern Mitral Annuloplasty Ring Dehiscence Risk. <i>Annals of Thoracic Surgery</i> , 2016 , 102, 518-26	2.7	24
159	Dephosphorylation of circulating human osteopontin correlates with severe valvular calcification in patients with calcific aortic valve disease. <i>Biomarkers</i> , 2012 , 17, 111-8	2.6	24
158	An integrated inverse model-experimental approach to determine soft tissue three-dimensional constitutive parameters: application to post-infarcted myocardium. <i>Biomechanics and Modeling in Mechanobiology</i> , 2018 , 17, 31-53	3.8	23
157	A novel approach to in vivo mitral valve stress analysis. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2010 , 299, H1790-4	5.2	23
156	Quantifying acute myocardial injury using ratiometric fluorometry. <i>IEEE Transactions on Biomedical Engineering</i> , 2009 , 56, 1556-63	5	23
155	Melody valve implantation into the branch pulmonary arteries for treatment of pulmonary insufficiency in an ovine model of right ventricular outflow tract dysfunction following tetralogy of Fallot repair. <i>Circulation: Cardiovascular Interventions</i> , 2011 , 4, 80-7	6	23
154	Mitral valve tenting index for assessment of subvalvular remodeling. <i>Annals of Thoracic Surgery</i> , 2007 , 84, 1243-9	2.7	23
153	In-vivo heterogeneous functional and residual strains in human aortic valve leaflets. <i>Journal of Biomechanics</i> , 2016 , 49, 2481-90	2.9	22
152	Targeted injection of a biocomposite material alters macrophage and fibroblast phenotype and function following myocardial infarction: relation to left ventricular remodeling. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2014 , 350, 701-9	4.7	22
151	Mitral valve repair for post-myocardial infarction papillary muscle rupture. <i>European Journal of Cardio-thoracic Surgery</i> , 2013 , 44, 1063-9	3	22

150	Infarction induced myocardial apoptosis and ARC activation. <i>Journal of Surgical Research</i> , 2011 , 166, 59-67	2.5	22
149	Elimination of ischemic mitral regurgitation does not alter long-term left ventricular remodeling in the ovine model. <i>Annals of Thoracic Surgery</i> , 2010 , 90, 788-94	2.7	22
148	Cardiac retransplantation is an efficacious therapy for primary cardiac allograft failure. <i>Journal of Cardiothoracic Surgery</i> , 2008 , 3, 26	1.6	22
147	Dynamic assessment of mitral annular force profile in an ovine model. <i>Annals of Thoracic Surgery</i> , 2012 , 94, 59-65	2.7	21
146	Medially constrained deformable modeling for segmentation of branching medial structures: Application to aortic valve segmentation and morphometry. <i>Medical Image Analysis</i> , 2015 , 26, 217-31	15.4	21
145	In vivo fluorometric assessment of cyclosporine on mitochondrial function during myocardial ischemia and reperfusion. <i>Annals of Thoracic Surgery</i> , 2010 , 89, 1532-7	2.7	21
144	Is the myofibrillarlytic myocyte a forme fruste apoptotic myocyte?. <i>Annals of Thoracic Surgery</i> , 2005 , 79, 1333-7; discussion 1337	2.7	21
143	Ventricular Constraint Using the Acorn Cardiac Support Device Reduces Myocardial Akinetic Area in an Ovine Model of Acute Infarction. <i>Circulation</i> , 2002 , 106,	16.7	21
142	A noninvasive method for the determination of in vivo mitral valve leaflet strains. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2018 , 34, e3142	2.6	20
141	Validation of semiautomated and locally resolved aortic wall thickness measurements from computed tomography. <i>Journal of Vascular Surgery</i> , 2015 , 61, 1034-40	3.5	19
140	Optimized local infarct restraint improves left ventricular function and limits remodeling. <i>Annals of Thoracic Surgery</i> , 2013 , 95, 155-62	2.7	19
139	The influence of saddle-shaped annuloplasty on leaflet curvature in patients with ischaemic mitral regurgitation. <i>European Journal of Cardio-thoracic Surgery</i> , 2012 , 42, 493-9	3	19
138	Triglycidyl amine crosslinking combined with ethanol inhibits bioprosthetic heart valve calcification. <i>Annals of Thoracic Surgery</i> , 2011 , 92, 858-65	2.7	19
137	Regional heterogeneity of myocardial reperfusion injury: effect of mild hypothermia. <i>Annals of Thoracic Surgery</i> , 2009 , 87, 164-71	2.7	19
136	A High-Fidelity and Micro-anatomically Accurate 3D Finite Element Model for Simulations of Functional Mitral Valve. <i>Lecture Notes in Computer Science</i> , 2013 , 7945, 416-424	0.9	19
135	Assessment of myocardial injury after reperfused infarction by T1 cardiovascular magnetic resonance. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2017 , 19, 17	6.9	18
134	On the simulation of mitral valve function in health, disease, and treatment. <i>Journal of Biomechanical Engineering</i> , 2019 ,	2.1	18
133	Long-term survival after mitral valve surgery for post-myocardial infarction papillary muscle rupture. <i>Journal of Cardiothoracic Surgery</i> , 2015 , 10, 11	1.6	18

132	Patient-Specific Modeling of Heart Valves: From Image to Simulation. <i>Lecture Notes in Computer Science</i> , 2013 , 7945, 141-149	0.9	18
131	The effect of surgical and transcatheter aortic valve replacement on mitral annular anatomy. <i>Annals of Thoracic Surgery</i> , 2013 , 95, 614-9	2.7	18
130	Posterior leaflet augmentation in ischemic mitral regurgitation increases leaflet coaptation and mobility. <i>Annals of Thoracic Surgery</i> , 2012 , 94, 1438-45	2.7	18
129	Impact of wall thickness and saccular geometry on the computational wall stress of descending thoracic aortic aneurysms. <i>Circulation</i> , 2013 , 128, S157-62	16.7	18
128	Posterior leaflet augmentation improves leaflet tethering in repair of ischemic mitral regurgitation. <i>European Journal of Cardio-thoracic Surgery</i> , 2011 , 40, 1501-7; discussion 1507	3	18
127	In vivo biomechanical assessment of triglycidylamine crosslinked pericardium. <i>Biomaterials</i> , 2007 , 28, 5390-8	15.6	18
126	On the in vivo function of the mitral heart valve leaflet: insights into tissue-interstitial cell biomechanical coupling. <i>Biomechanics and Modeling in Mechanobiology</i> , 2017 , 16, 1613-1632	3.8	17
125	Saddle-Shaped Annuloplasty Improves Leaflet Coaptation in Repair for Ischemic Mitral Regurgitation. <i>Annals of Thoracic Surgery</i> , 2015 , 100, 1360-6	2.7	17
124	Assessing Myocardial Disease Using T MRI. <i>Current Cardiovascular Imaging Reports</i> , 2014 , 7, 9248	0.7	17
123	Mammalian fetal cardiac regeneration after myocardial infarction is associated with differential gene expression compared with the adult. <i>Annals of Thoracic Surgery</i> , 2014 , 97, 1643-50	2.7	17
122	Increased wall stress of saccular versus fusiform aneurysms of the descending thoracic aorta. <i>Annals of Vascular Surgery</i> , 2011 , 25, 1129-37	1.7	17
121	Borderzone geometry after acute myocardial infarction: a three-dimensional contrast enhanced echocardiographic study. <i>Annals of Thoracic Surgery</i> , 2005 , 80, 2250-5	2.7	17
120	Comparison of transesophageal echocardiographic analysis and circulating biomarker expression profile in calcific aortic valve disease. <i>Journal of Heart Valve Disease</i> , 2013 , 22, 156-65		17
119	The value of preoperative 3-dimensional over 2-dimensional valve analysis in predicting recurrent ischemic mitral regurgitation after mitral annuloplasty. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2016 , 152, 847-59	1.5	17
118	Statistical assessment of normal mitral annular geometry using automated three-dimensional echocardiographic analysis. <i>Annals of Thoracic Surgery</i> , 2014 , 97, 71-7	2.7	16
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