Robert C Gorman

List of Publications by Year in Descending Order

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	Patient-Specific Quantification of Normal and Bicuspid Aortic Valve Leaflet Deformations from Clinically Derived Images.. *Annals of Biomedical Engineering*, **2022**, 50, 1-15	4.7	2
274	Age-related enhanced degeneration of bioprosthetic valves due to leaflet calcification, tissue crosslinking, and structural changes.. *Cardiovascular Research*, **2022**,	9.9	3
273	Magnetic susceptibility and R2* of myocardial reperfusion injury at 3T and 7T. *Magnetic Resonance in Medicine*, **2022**, 87, 323-336	4.4	1
272	Stent-based delivery of AAV2 vectors encoding oxidation-resistant apoA1.. *Scientific Reports*, **2022**, 12, 5464	4.9	0
271	Left atrial geometry in an ovine ischemic mitral regurgitation model: implications for transcatheter mitral valve replacement devices with a left atrial anchoring mechanism. *Journal of Cardiothoracic Surgery*, **2021**, 16, 295	1.6	
270	Pre-surgical Prediction of Ischemic Mitral Regurgitation Recurrence Using In Vivo Mitral Valve Leaflet Strains. *Annals of Biomedical Engineering*, **2021**, 1	4.7	3
269	The impact of myocardial compressibility on organ-level simulations of the normal and infarcted heart. *Scientific Reports*, **2021**, 11, 13466	4.9	2
268	Altered Responsiveness to TGF and BMP and Increased CD45+ Cell Presence in Mitral Valves Are Unique Features of Ischemic Mitral Regurgitation. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2021**, 41, 2049-2062	9.4	1
267	Multimodal image analysis and subvalvular dynamics in ischemic mitral regurgitation. *JTCVS Open*, **2021**, 5, 48-60	0.2	
266	Dynamic Volumetric Assessment of the Aortic Root: The Influence of Bicuspid Aortic Valve Competence. *Annals of Thoracic Surgery*, **2021**, 112, 1317-1324	2.7	1
265	Injectable Shear-Thinning Hydrogels Prevent Ischemic Mitral Regurgitation and Normalize Ventricular Flow Dynamics. *Seminars in Thoracic and Cardiovascular Surgery*, **2020**, 32, 445-453	1.7	1
264	On the in vivo systolic compressibility of left ventricular free wall myocardium in the normal and infarcted heart. *Journal of Biomechanics*, **2020**, 107, 109767	2.9	6
263	Iron imaging in myocardial infarction reperfusion injury. *Nature Communications*, **2020**, 11, 3273	17.4	5
262	Mitral valve leaflet response to ischaemic mitral regurgitation: from gene expression to tissue remodelling. *Journal of the Royal Society Interface*, **2020**, 17, 20200098	4.1	7
261	Intraoperative post-annuloplasty three-dimensional valve analysis does not predict recurrent ischemic mitral regurgitation. *Journal of Cardiothoracic Surgery*, **2020**, 15, 161	1.6	3
260	Quantification of Papillary Muscle Motion and Mitral Regurgitation After Myocardial Infarction. *Conference Proceedings of the Society for Experimental Mechanics*, **2020**, 19-24	0.3	
259	Closed-loop control of k-space sampling via physiologic feedback for cine MRI. *PLoS ONE*, **2020**, 15, e0244286	3.7	0

258	Insights into the passive mechanical behavior of left ventricular myocardium using a robust constitutive model based on full 3D kinematics. *Journal of the Mechanical Behavior of Biomedical Materials*, **2020**, 103, 103508	4.1	12
257	Myocardial tissue salvage is correlated with ischemic border region temperature at reperfusion. *Catheterization and Cardiovascular Interventions*, **2020**, 96, E593-E601	2.7	0
256	Quantitative three-dimensional echocardiographic analysis of the bicuspid aortic valve and aortic root: A single modality approach. *Journal of Cardiac Surgery*, **2020**, 35, 375-382	1.3	
255	Glycation and Serum Albumin Infiltration Contribute to the Structural Degeneration of Bioprosthetic Heart Valves. *JACC Basic To Translational Science*, **2020**, 5, 755-766	8.7	7
254	How hydrogel inclusions modulate the local mechanical response in early and fully formed post-infarcted myocardium. *Acta Biomaterialia*, **2020**, 114, 296-306	10.8	6
253	Optimized mitral annuloplasty ring design reduces loading in the posterior annulus. *Journal of Thoracic and Cardiovascular Surgery*, **2020**, 159, 1766-1774.e2	1.5	4
252	A Contemporary Look at Biomechanical Models of Myocardium. *Annual Review of Biomedical Engineering*, **2019**, 21, 417-442	12	24
251	On the simulation of mitral valve function in health, disease, and treatment. *Journal of Biomechanical Engineering*, **2019**,	2.1	18
250	Differential Expression of Transforming Growth Factor-β1 Is Associated With Fetal Regeneration After Myocardial Infarction. *Annals of Thoracic Surgery*, **2019**, 108, 59-66	2.7	3
249	Metabolite Exchange between Mammalian Organs Quantified in Pigs. *Cell Metabolism*, **2019**, 30, 594-606.e3	2.36	84
248	Diffeomorphic Medial Modeling. *Lecture Notes in Computer Science*, **2019**, 11492, 208-220	0.9	
247	Hydromorphone-induced Neurostimulation in a Yorkshire Swine () after Myocardial Infarction Surgery. *Journal of the American Association for Laboratory Animal Science*, **2019**, 58, 601-605	1.3	1
246	Development of a Functionally Equivalent Model of the Mitral Valve Chordae Tendineae Through Topology Optimization. *Annals of Biomedical Engineering*, **2019**, 47, 60-74	4.7	16
245	Toward predictive modeling of catheter-based pulmonary valve replacement into native right ventricular outflow tracts. *Catheterization and Cardiovascular Interventions*, **2019**, 93, E143-E152	2.7	12
244	Commentary: Three-dimensional P3 tethering angle at the heart of future surgical decision making in ischemic mitral regurgitation. *Journal of Thoracic and Cardiovascular Surgery*, **2019**, 157, 1806-1807	1.5	1
243	Reply. *Annals of Thoracic Surgery*, **2018**, 106, 313	2.7	
242	Sustained release of endothelial progenitor cell-derived extracellular vesicles from shear-thinning hydrogels improves angiogenesis and promotes function after myocardial infarction. *Cardiovascular Research*, **2018**, 114, 1029-1040	9.9	89
241	Mitral annuloplasty ring suture forces: Impact of surgeon, ring, and use conditions. *Journal of Thoracic and Cardiovascular Surgery*, **2018**, 155, 131-139.e3	1.5	9

240	An integrated inverse model-experimental approach to determine soft tissue three-dimensional constitutive parameters: application to post-infarcted myocardium. *Biomechanics and Modeling in Mechanobiology*, **2018**, 17, 31-53	3.8	23
239	Effects of hydrogel injection on borderzone contractility post-myocardial infarction. *Biomechanics and Modeling in Mechanobiology*, **2018**, 17, 1533-1542	3.8	12
238	Mitral annuloplasty ring flexibility preferentially reduces posterior suture forces. *Journal of Biomechanics*, **2018**, 75, 58-66	2.9	8
237	Multi-resolution geometric modeling of the mitral heart valve leaflets. *Biomechanics and Modeling in Mechanobiology*, **2018**, 17, 351-366	3.8	14
236	Towards Patient-Specific Mitral Valve Surgical Simulations **2018**, 471-487		
235	A noninvasive method for the determination of in vivo mitral valve leaflet strains. *International Journal for Numerical Methods in Biomedical Engineering*, **2018**, 34, e3142	2.6	20
234	Assessment of myocardial injury after reperfused infarction by T1□cardiovascular magnetic resonance. *Journal of Cardiovascular Magnetic Resonance*, **2017**, 19, 17	6.9	18
233	On the in vivo function of the mitral heart valve leaflet: insights into tissue-interstitial cell biomechanical coupling. *Biomechanics and Modeling in Mechanobiology*, **2017**, 16, 1613-1632	3.8	17
232	Regional Heterogeneity in the Mitral Valve´Apparatus in Patients With Ischemic´Mitral Regurgitation. *Annals of Thoracic Surgery*, **2017**, 103, 1171-1177	2.7	4
231	Mitral Valve Chordae Tendineae: Topological and Geometrical Characterization. *Annals of Biomedical Engineering*, **2017**, 45, 378-393	4.7	26
230	Regulation of valve interstitial cell homeostasis by mechanical deformation: implications for heart valve disease and surgical repair. *Journal of the Royal Society Interface*, **2017**, 14,	4.1	30
229	Cardiac Progenitor Cell Recruitment Drives Fetal Cardiac Regeneration by Enhanced Angiogenesis. *Annals of Thoracic Surgery*, **2017**, 104, 1968-1975	2.7	5
228	Spatiotemporal Segmentation and Modeling of the Mitral Valve in Real-Time 3D Echocardiographic Images. *Lecture Notes in Computer Science*, **2017**, 10433, 746-754	0.9	2
227	Computational sensitivity investigation of hydrogel injection characteristics for myocardial support. *Journal of Biomechanics*, **2017**, 64, 231-235	2.9	7
226	Self-gated MRI of multiple beat morphologies in the presence of arrhythmias. *Magnetic Resonance in Medicine*, **2017**, 78, 678-688	4.4	7
225	Spatial phenotyping of the endocardial endothelium as a function of intracardiac hemodynamic shear stress. *Journal of Biomechanics*, **2017**, 50, 11-19	2.9	7
224	Image Segmentation and Modeling of the Pediatric Tricuspid Valve in Hypoplastic Left Heart Syndrome. *Lecture Notes in Computer Science*, **2017**, 10263, 95-105	0.9	10
223	Modeling of Myocardium Compressibility and its Impact in Computational Simulations of the Healthy and Infarcted Heart. *Lecture Notes in Computer Science*, **2017**, 10263, 493-501	0.9	3

222	Computational Modeling of Healthy Myocardium in Diastole. *Annals of Biomedical Engineering*, **2016**, 44, 980-92	4.7	11
221	Modeling the Myxomatous Mitral Valve With Three-Dimensional Echocardiography. *Annals of Thoracic Surgery*, **2016**, 102, 703-710	2.7	8
220	Heart Valve Biomechanics and Underlying Mechanobiology. *Comprehensive Physiology*, **2016**, 6, 1743-1780	7.7	56
219	How Local Annular Force and Collagen Density Govern Mitral Annuloplasty Ring Dehiscence Risk. *Annals of Thoracic Surgery*, **2016**, 102, 518-26	2.7	24
218	In-vivo heterogeneous functional and residual strains in human aortic valve leaflets. *Journal of Biomechanics*, **2016**, 49, 2481-90	2.9	22
217	Impact of end-diastolic and end-systolic phase selection in the volumetric evaluation of cardiac MRI. *Journal of Magnetic Resonance Imaging*, **2016**, 43, 585-93	5.6	3
216	Preoperative Three-Dimensional Valve Analysis Predicts Recurrent Ischemic Mitral Regurgitation After Mitral Annuloplasty. *Annals of Thoracic Surgery*, **2016**, 101, 567-75; discussion 575	2.7	42
215	The value of preoperative 3-dimensional over 2-dimensional valve analysis in predicting recurrent ischemic mitral regurgitation after mitral annuloplasty. *Journal of Thoracic and Cardiovascular Surgery*, **2016**, 152, 847-59	1.5	17
214	Computational Investigation of Transmural Differences in Left Ventricular Contractility. *Journal of Biomechanical Engineering*, **2016**, 138,	2.1	6
213	Mitral annuloplasty ring suture dehiscence: In search of more robust techniques. *Journal of Thoracic and Cardiovascular Surgery*, **2016**, 152, 1640	1.5	1
212	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	2.7	1
211	Sensitivity of left ventricular mechanics to myofiber architecture: A finite element study. *Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine*, **2016**, 230, 594-8	1.7	9
210	Real-time recording of annuloplasty suture dehiscence reveals a potential mechanism for dehiscence cascade. *Journal of Thoracic and Cardiovascular Surgery*, **2016**, 152, e15-7	1.5	8
209	Quantification of Left Ventricular Function With Premature Ventricular Complexes Reveals Variable Hemodynamics. *Circulation: Arrhythmia and Electrophysiology*, **2016**, 9, e003520	6.4	12
208	Integrated Regional Cardiac Hemodynamic Imaging and RNA Sequencing Reveal Corresponding Heterogeneity of Ventricular Wall Shear Stress and Endocardial Transcriptome. *Journal of the American Heart Association*, **2016**, 5, e003170	6	11
207	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	2.1	14
206	Reply. *Annals of Thoracic Surgery*, **2016**, 102, 1414-5	2.7	
205	Injectable Shear-Thinning Hydrogels for Minimally Invasive Delivery to Infarcted Myocardium to Limit Left Ventricular Remodeling. *Circulation: Cardiovascular Interventions*, **2016**, 9,	6	72

204	Implantation of the Medtronic Harmony Transcatheter Pulmonary Valve Improves Right Ventricular Size and Function in an Ovine Model of Postoperative Chronic Pulmonary Insufficiency. *Circulation: Cardiovascular Interventions*, **2016**, 9,	6	16
203	The Post-Myocardial Infarction Pacing Remodeling Prevention Therapy (PRomPT) Trial: Design and Rationale. *Journal of Cardiac Failure*, **2015**, 21, 601-7	3.3	2
202	Quantification and simulation of layer-specific mitral valve interstitial cells deformation under physiological loading. *Journal of Theoretical Biology*, **2015**, 373, 26-39	2.3	43
201	Regional myocardial three-dimensional principal strains during postinfarction remodeling. *Annals of Thoracic Surgery*, **2015**, 99, 770-8	2.7	13
200	Development of off-pump mitral valve replacement in a porcine model. *Annals of Thoracic Surgery*, **2015**, 99, 1408-12	2.7	2
199	Long-term survival after mitral valve surgery for post-myocardial infarction papillary muscle rupture. *Journal of Cardiothoracic Surgery*, **2015**, 10, 11	1.6	18
198	On the effects of leaflet microstructure and constitutive model on the closing behavior of the mitral valve. *Biomechanics and Modeling in Mechanobiology*, **2015**, 14, 1281-302	3.8	46
197	The Influence of Mitral Annuloplasty on Left Ventricular Flow Dynamics. *Annals of Thoracic Surgery*, **2015**, 100, 114-121	2.7	27
196	Temporal Changes in Infarct Material Properties: An In Vivo Assessment Using Magnetic Resonance Imaging and Finite Element Simulations. *Annals of Thoracic Surgery*, **2015**, 100, 582-9	2.7	24
195	Saddle-Shaped Annuloplasty Improves Leaflet Coaptation in Repair for Ischemic Mitral Regurgitation. *Annals of Thoracic Surgery*, **2015**, 100, 1360-6	2.7	17
194	RV mass measurement at end-systole: Improved accuracy, Reproducibility, and reduced segmentation time. *Journal of Magnetic Resonance Imaging*, **2015**, 42, 1291-6	5.6	6
193	MRI evaluation of injectable hyaluronic acid-based hydrogel therapy to limit ventricular remodeling after myocardial infarction. *Biomaterials*, **2015**, 69, 65-75	15.6	75
192	Validation of semiautomated and locally resolved aortic wall thickness measurements from computed tomography. *Journal of Vascular Surgery*, **2015**, 61, 1034-40	3.5	19
191	Local wall thickness in finite element models improves prediction of abdominal aortic aneurysm growth. *Journal of Vascular Surgery*, **2015**, 61, 217-23	3.5	32
190	Mitral Valves: A Computational Framework **2015**, 223-255		6
189	User-initialized active contour segmentation and golden-angle real-time cardiovascular magnetic resonance enable accurate assessment of LV function in patients with sinus rhythm and arrhythmias. *Journal of Cardiovascular Magnetic Resonance*, **2015**, 17, 37	6.9	14
188	Use of computational fluid dynamics studies in predicting aneurysmal degeneration of acute type B aortic dissections. *Journal of Vascular Surgery*, **2015**, 62, 279-84	3.5	42
187	Medially constrained deformable modeling for segmentation of branching medial structures: Application to aortic valve segmentation and morphometry. *Medical Image Analysis*, **2015**, 26, 217-31	15.4	21

186	Estimating passive mechanical properties in a myocardial infarction using MRI and finite element simulations. *Biomechanics and Modeling in Mechanobiology*, **2015**, 14, 633-47	3.8	40
185	Invited commentary. *Annals of Thoracic Surgery*, **2015**, 99, 559-60	2.7	
184	Injectable microsphere gel progressively improves global ventricular function, regional contractile strain, and mitral regurgitation after myocardial infarction. *Annals of Thoracic Surgery*, **2015**, 99, 597-603	2.7	9
183	Author response: new therapies for reducing post-myocardial left ventricular remodeling. *Annals of Translational Medicine*, **2015**, 3, 146	3.2	
182	4D-transesophageal echocardiography and emerging imaging modalities for guiding mitral valve repair. *Annals of Cardiothoracic Surgery*, **2015**, 4, 461-2	4.7	2
181	Segmentation of the Aortic Valve Apparatus in 3D Echocardiographic Images: Deformable Modeling of a Branching Medial Structure. *Lecture Notes in Computer Science*, **2015**, 8896, 196-203	0.9	5
180	Regional annular geometry in patients with mitral regurgitation: implications for annuloplasty ring selection. *Annals of Thoracic Surgery*, **2014**, 97, 64-70	2.7	39
179	A technique for in vivo mapping of myocardial creatine kinase metabolism. *Nature Medicine*, **2014**, 20, 209-14	50.5	128
178	Targeted injection of a biocomposite material alters macrophage and fibroblast phenotype and function following myocardial infarction: relation to left ventricular remodeling. *Journal of Pharmacology and Experimental Therapeutics*, **2014**, 350, 701-9	4.7	22
177	Tricuspid annulus: a three-dimensional deconstruction and reconstruction. *Annals of Thoracic Surgery*, **2014**, 98, 1536-42	2.7	25
176	Suture forces in undersized mitral annuloplasty: novel device and measurements. *Annals of Thoracic Surgery*, **2014**, 98, 305-9	2.7	15
175	Three-dimensional ultrasound-derived physical´mitral valve modeling. *Annals of Thoracic Surgery*, **2014**, 98, 691-4	2.7	51
174	Assessing Myocardial Disease Using T MRI. *Current Cardiovascular Imaging Reports*, **2014**, 7, 9248	0.7	17
173	Invited commentary. *Annals of Thoracic Surgery*, **2014**, 97, 1503-4	2.7	
172	Real-time magnetic resonance imaging technique for determining left ventricle pressure-volume loops. *Annals of Thoracic Surgery*, **2014**, 97, 1597-603	2.7	14
171	In-vivo analysis of selectively flexible mitral annuloplasty rings using three-dimensional echocardiography. *Annals of Thoracic Surgery*, **2014**, 97, 2005-10	2.7	8
170	Quantitative analysis of 3-dimensional aortic annular geometry: implication for aortic root reimplantation. *Journal of Thoracic and Cardiovascular Surgery*, **2014**, 147, 1103-5	1.5	3
169	Statistical assessment of normal mitral annular geometry using automated three-dimensional echocardiographic analysis. *Annals of Thoracic Surgery*, **2014**, 97, 71-7	2.7	16

168	Osteopontin-CD44v6 interaction mediates calcium deposition via phospho-Akt in valve interstitial cells from patients with noncalcified aortic valve sclerosis. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2014**, 34, 2086-94	9.4	32
167	Circulating soluble receptor for advanced glycation end product identifies patients with bicuspid aortic valve and associated aortopathies. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2014**, 34, 2349-57	9.4	27
166	Preclinical evaluation of the engineered stem cell chemokine stromal cell-derived factor 1 analog in a translational ovine myocardial infarction model. *Circulation Research*, **2014**, 114, 650-9	15.7	35
165	Predictors of in-hospital mortality after mitral valve surgery for post-myocardial infarction papillary muscle rupture. *Journal of Cardiothoracic Surgery*, **2014**, 9, 171	1.6	11
164	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	1.5	3
163	Local hydrogel release of recombinant TIMP-3 attenuates adverse left ventricular remodeling after experimental myocardial infarction. *Science Translational Medicine*, **2014**, 6, 223ra21	17.5	78
162	An inverse modeling approach for stress estimation in mitral valve anterior leaflet valvuloplasty for in-vivo valvular biomaterial assessment. *Journal of Biomechanics*, **2014**, 47, 2055-63	2.9	60
161	Feasibility of in vivo human aortic valve modeling using real-time three-dimensional echocardiography. *Annals of Thoracic Surgery*, **2014**, 97, 1255-8	2.7	4
160	Mammalian fetal cardiac regeneration after myocardial infarction is associated with differential gene expression compared with the adult. *Annals of Thoracic Surgery*, **2014**, 97, 1643-50	2.7	17
159	Injectable and bioresponsive hydrogels for on-demand matrix metalloproteinase inhibition. *Nature Materials*, **2014**, 13, 653-61	27	346
158	A model of ischemic mitral regurgitation in pigs with three-dimensional echocardiographic assessment. *Journal of Heart Valve Disease*, **2014**, 23, 713-20		4
157	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	1.5	
156	Contractile mitral annular forces are reduced with ischemic mitral regurgitation. *Journal of Thoracic and Cardiovascular Surgery*, **2013**, 146, 422-8	1.5	13
155	Patient-Specific Modeling of Heart Valves: From Image to Simulation. *Lecture Notes in Computer Science*, **2013**, 7945, 141-149	0.9	18
154	The effect of surgical and transcatheter aortic valve replacement on mitral annular anatomy. *Annals of Thoracic Surgery*, **2013**, 95, 614-9	2.7	18
153	Sutureless mitral valve replacement: initial steps toward a percutaneous procedure. *Annals of Thoracic Surgery*, **2013**, 96, 670-4	2.7	11
152	Tricuspid annular geometry: a three-dimensional transesophageal echocardiographic study. *Journal of Cardiothoracic and Vascular Anesthesia*, **2013**, 27, 639-46	2.1	53
151	Oxidative stress modulates vascular smooth muscle cell phenotype via CTGF in thoracic aortic aneurysm. *Cardiovascular Research*, **2013**, 100, 316-24	9.9	75

150	Optimized local infarct restraint improves left ventricular function and limits remodeling. *Annals of Thoracic Surgery*, **2013**, 95, 155-62	2.7	19
149	Dynamic 3-dimensional echocardiographic assessment of mitral annular geometry in patients with functional mitral regurgitation. *Annals of Thoracic Surgery*, **2013**, 95, 105-10	2.7	41
148	Antioxidant enzymes reduce DNA damage and early activation of valvular interstitial cells in aortic valve sclerosis. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2013**, 33, e66-74	9.4	57
147	Mammalian cardiac regeneration after fetal myocardial infarction requires cardiac progenitor cell recruitment. *Annals of Thoracic Surgery*, **2013**, 96, 163-70	2.7	14
146	Directed epicardial assistance in ischemic cardiomyopathy: flow and function using cardiac magnetic resonance imaging. *Annals of Thoracic Surgery*, **2013**, 96, 577-85	2.7	6
145	Peak wall stress predicts expansion rate in descending thoracic aortic aneurysms. *Annals of Thoracic Surgery*, **2013**, 95, 593-8	2.7	33
144	In-vivo mitral annuloplasty ring transducer: implications for implantation and annular downsizing. *Journal of Biomechanics*, **2013**, 46, 2550-3	2.9	6
143	Localized targeting of biomaterials following myocardial infarction: a foundation to build on. *Trends in Cardiovascular Medicine*, **2013**, 23, 301-11	6.9	8
142	In vitro mitral valve simulator mimics systolic valvular function of chronic ischemic mitral regurgitation ovine model. *Annals of Thoracic Surgery*, **2013**, 95, 825-30	2.7	31
141	Algisyl-LVR with coronary artery bypass grafting reduces left ventricular wall stress and improves function in the failing human heart. *International Journal of Cardiology*, **2013**, 168, 2022-8	3.2	69
140	Noggin attenuates the osteogenic activation of human valve interstitial cells in aortic valve sclerosis. *Cardiovascular Research*, **2013**, 98, 402-10	9.9	36
139	Mitral valve repair for post-myocardial infarction papillary muscle rupture. *European Journal of Cardio-thoracic Surgery*, **2013**, 44, 1063-9	3	22
138	Impact of wall thickness and saccular geometry on the computational wall stress of descending thoracic aortic aneurysms. *Circulation*, **2013**, 128, S157-62	16.7	18
137	Acellular biomaterials: an evolving alternative to cell-based therapies. *Science Translational Medicine*, **2013**, 5, 176ps4	17.5	99
136	Comparison of transesophageal echocardiographic analysis and circulating biomarker expression profile in calcific aortic valve disease. *Journal of Heart Valve Disease*, **2013**, 22, 156-65		17
135	A High-Fidelity and Micro-anatomically Accurate 3D Finite Element Model for Simulations of Functional Mitral Valve. *Lecture Notes in Computer Science*, **2013**, 7945, 416-424	0.9	19
134	Automated segmentation and geometrical modeling of the tricuspid aortic valve in 3D echocardiographic images. *Lecture Notes in Computer Science*, **2013**, 16, 485-92	0.9	10
133	Aortic dilatation with bicuspid aortic valves: cusp fusion correlates to matrix metalloproteinases and inhibitors. *Annals of Thoracic Surgery*, **2012**, 93, 457-63	2.7	57

132	Melody valve-in-ring procedure for mitral valve replacement: feasibility in four annuloplasty types. *Annals of Thoracic Surgery*, **2012**, 93, 783-8	2.7	27
131	First evidence of depressed contractility in the border zone of a human myocardial infarction. *Annals of Thoracic Surgery*, **2012**, 93, 1188-93	2.7	45
130	Augmented mitral valve leaflet area decreases leaflet stress: a finite element simulation. *Annals of Thoracic Surgery*, **2012**, 93, 1141-5	2.7	13
129	Dynamic assessment of mitral annular force profile in an ovine model. *Annals of Thoracic Surgery*, **2012**, 94, 59-65	2.7	21
128	Human myxomatous mitral valve prolapse: role of bone morphogenetic protein 4 in valvular interstitial cell activation. *Journal of Cellular Physiology*, **2012**, 227, 2595-604	7	40
127	Posterior leaflet augmentation in ischemic mitral regurgitation increases leaflet coaptation and mobility. *Annals of Thoracic Surgery*, **2012**, 94, 1438-45	2.7	18
126	Annuloplasty ring dehiscence in ischemic mitral regurgitation. *Annals of Thoracic Surgery*, **2012**, 94, 2132	2.7	13
125	Three-dimensional echocardiographic analysis of mitral annular dynamics: implication for annuloplasty selection. *Circulation*, **2012**, 126, S183-8	16.7	71
124	Tunable hydrogel-microsphere composites that modulate local inflammation and collagen bulking. *Acta Biomaterialia*, **2012**, 8, 3218-27	10.8	37
123	Dephosphorylation of circulating human osteopontin correlates with severe valvular calcification in patients with calcific aortic valve disease. *Biomarkers*, **2012**, 17, 111-8	2.6	24
122	The influence of saddle-shaped annuloplasty on leaflet curvature in patients with ischaemic mitral regurgitation. *European Journal of Cardio-thoracic Surgery*, **2012**, 42, 493-9	3	19
121	Semi-automated mitral valve morphometry and computational stress analysis using 3D ultrasound. *Journal of Biomechanics*, **2012**, 45, 903-7	2.9	37
120	In-vivo transducer to measure dynamic mitral annular forces. *Journal of Biomechanics*, **2012**, 45, 1514-6	2.9	12
119	In vivo chronic myocardial infarction characterization by spin locked cardiovascular magnetic resonance. *Journal of Cardiovascular Magnetic Resonance*, **2012**, 14, 37	6.9	50
118	On the in vivo deformation of the mitral valve anterior leaflet: effects of annular geometry and referential configuration. *Annals of Biomedical Engineering*, **2012**, 40, 1455-67	4.7	78
117	Reduction of ischemia/reperfusion injury with bendavia, a mitochondria-targeting cytoprotective Peptide. *Journal of the American Heart Association*, **2012**, 1, e001644	6	107
116	Development of a semi-automated method for mitral valve modeling with medial axis representation using 3D ultrasound. *Medical Physics*, **2012**, 39, 933-50	4.4	26
115	Changes in mitral annular geometry after aortic valve replacement: a three-dimensional transesophageal echocardiographic study. *Journal of Heart Valve Disease*, **2012**, 21, 696-701		10

114	An ovine model of pulmonary insufficiency and right ventricular outflow tract dilatation. *Journal of Heart Valve Disease*, **2012**, 21, 247-52		1
113	Percutaneous transvenous Melody valve-in-ring procedure for mitral valve replacement. *Journal of the American College of Cardiology*, **2011**, 58, 2475-80	15.1	33
112	Infarction induced myocardial apoptosis and ARC activation. *Journal of Surgical Research*, **2011**, 166, 59-67	2.5	22
111	Ischemic mitral regurgitation: a quantitative three-dimensional echocardiographic analysis. *Annals of Thoracic Surgery*, **2011**, 91, 157-64	2.7	53
110	Quantitative mitral valve modeling using real-time three-dimensional echocardiography: technique and repeatability. *Annals of Thoracic Surgery*, **2011**, 91, 165-71	2.7	51
109	Pathogenesis of acute aortic dissection: a finite element stress analysis. *Annals of Thoracic Surgery*, **2011**, 91, 458-63	2.7	98
108	Saddle-shape annuloplasty increases mitral leaflet coaptation after repair for flail posterior leaflet. *Annals of Thoracic Surgery*, **2011**, 92, 797-803	2.7	33
107	Modification of infarct material properties limits adverse ventricular remodeling. *Annals of Thoracic Surgery*, **2011**, 92, 617-24	2.7	47
106	A novel method for quantifying the in-vivo mechanical effect of material injected into a myocardial infarction. *Annals of Thoracic Surgery*, **2011**, 92, 935-41	2.7	57
105	Triglycidyl amine crosslinking combined with ethanol inhibits bioprosthetic heart valve calcification. *Annals of Thoracic Surgery*, **2011**, 92, 858-65	2.7	19
104	Increased ascending aortic wall stress in patients with bicuspid aortic valves. *Annals of Thoracic Surgery*, **2011**, 92, 1384-9	2.7	67
103	Infarct restraint to limit adverse ventricular remodeling. *Journal of Cardiovascular Translational Research*, **2011**, 4, 73-81	3.3	30
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