Pedro J Del Nido

List of Publications by Year in Descending Order

164 papers	3,182 citations	32 h-index	49 g-index
180 ext. papers	4,177 ext. citations	3.9 avg, IF	5.56 L-index

#	Paper	IF	Citations
164	Endothelial-to-Mesenchymal Transition as Underlying Mechanism for the Formation of Double-Chambered Right Ventricle.. *Pediatric Cardiology*, **2022**, 1	2.1	1
163	Intraoperative conduction mapping in complex congenital heart surgery.. *JTCVS Techniques*, **2022**, 12, 159-163	0.2	0
162	Major Aortopulmonary Collateral Arteries Requiring Percutaneous Intervention Following the Arterial Switch Operation: A Case Series and Systematic Review.. *World Journal for Pediatric & Congenital Heart Surgery*, **2022**, 13, 146-154	1.1	0
161	Comparison of Intraoperative and Discharge Residual Lesion Severity in Congenital Heart Surgery.. *Annals of Thoracic Surgery*, **2022**,	2.7	1
160	Unrepairable Infant Mitral Valve: An Unexpected Case of Decompensated Heart Failure.. *Circulation* , **2022**, 145, 1175-1178	16.7	
159	Single-Leaflet Aortic Valve Reconstruction Utilizing the Ozaki Technique in Patients With Congenital Aortic Valve Disease. *Seminars in Thoracic and Cardiovascular Surgery*, **2021**,	1.7	1
158	Autologous mitochondrial transplantation for cardiogenic shock in pediatric patients following ischemia-reperfusion injury. *Journal of Thoracic and Cardiovascular Surgery*, **2021**, 162, 992-1001	1.5	18
157	Technical Performance Score: A Predictor of Outcomes After the Norwood Procedure. *Annals of Thoracic Surgery*, **2021**, 112, 1290-1297	2.7	4
156	Super Glenn for staged biventricular repair: impact on left ventricular growth?. *European Journal of Cardio-thoracic Surgery*, **2021**, 60, 534-541	3	4
155	Acute and Short-Term Outcomes of Percutaneous Transcatheter Mitral Valve Replacement in Children. *Circulation: Cardiovascular Interventions*, **2021**, 14, e009996	6	2
154	A Novel Pulmonary Valve Replacement Surgery Strategy Using Contracting Band for Patients With Repaired Tetralogy of Fallot: An MRI-Based Multipatient Modeling Study. *Frontiers in Bioengineering and Biotechnology*, **2021**, 9, 638934	5.8	0
153	A Tribute to Ajit Yoganathan Cardiovascular Fluid Mechanics Lab: A Survey of Its Contributions to Our Understanding of the Physiology and Management of Single-Ventricle Patients. *Cardiovascular Engineering and Technology*, **2021**, 1	2.2	2
152	The Association of Age and Repair Modification with Outcome after Cone Repair for Ebstein Malformation. *Seminars in Thoracic and Cardiovascular Surgery*, **2021**,	1.7	2
151	Biventricular conversion after Fontan completion: A preliminary experience. *Journal of Thoracic and Cardiovascular Surgery*, **2021**,	1.5	4
150	Restriction of Atrial Septal Defect Leads to Growth of Hypoplastic Ventricle in Patients with Borderline Right or Left Heart. *Seminars in Thoracic and Cardiovascular Surgery*, **2021**,	1.7	6
149	Aortic Valve Surgery After Neonatal Balloon Aortic Valvuloplasty in Congenital Aortic Stenosis. *Circulation: Cardiovascular Interventions*, **2021**, 14, e009933	6	1
148	Management of Congenitally Corrected Transposition of the Great Arteries With Intact Ventricular Septum: Anatomic Repair or Palliative Treatment?. *Circulation: Cardiovascular Interventions*, **2021**, 14, e010154	6	2

147	Congenital aortic and truncal valve reconstruction using the Ozaki technique: Short-term clinical results. *Journal of Thoracic and Cardiovascular Surgery*, **2021**, 161, 1567-1577	1.5	29
146	Bilateral Erector Spinae Blocks Decrease Perioperative Opioid Use After Pediatric Cardiac Surgery. *Journal of Cardiothoracic and Vascular Anesthesia*, **2021**, 35, 2082-2087	2.1	10
145	Preoperative Factors That Predict Recurrence After Repair of Discrete Subaortic Stenosis. *Annals of Thoracic Surgery*, **2021**, 111, 1613-1619	2.7	3
144	Experience and Outcomes of Surgically Implanted Melody Valve in the Pulmonary Position. *Annals of Thoracic Surgery*, **2021**, 111, 966-972	2.7	2
143	Professor Ajit P. Yoganathan, PhD: "From bench to bedside": Celebrating his contributions to cardiac surgery with an honorary fellowship from the American Association for Thoracic Surgery. *Journal of Thoracic and Cardiovascular Surgery*, **2021**, 161, 728-729	1.5	
142	Commentary: Cone reconstruction for Ebstein anomaly is here to stay. *Journal of Thoracic and Cardiovascular Surgery*, **2021**, 161, 1110-1111	1.5	
141	Technical Performance Score Association With Arterial Switch Operation Outcomes. *Annals of Thoracic Surgery*, **2021**, 111, 1367-1373	2.7	0
140	Autogenous mitochondria transplantation for treatment of right heart failure. *Journal of Thoracic and Cardiovascular Surgery*, **2021**, 162, e111-e121	1.5	16
139	Human endothelial colony-forming cells provide trophic support for pluripotent stem cell-derived cardiomyocytes via distinctively high expression of neuregulin-1. *Angiogenesis*, **2021**, 24, 327-344	10.6	1
138	A Large Animal Model for Acute Kidney Injury by Temporary Bilateral Renal Artery Occlusion. *Journal of Visualized Experiments*, **2021**,	1.6	1
137	Long-term outcomes of truncus arteriosus repair: A modulated renewal competing risks analysis. *Journal of Thoracic and Cardiovascular Surgery*, **2021**,	1.5	6
136	Risk Factors for Left Ventricular Dysfunction Following Surgical Management of Cardiac Fibroma. *Circulation: Cardiovascular Imaging*, **2021**, 14, e011748	3.9	1
135	Importance of Preserved Tricuspid Valve Function for Effective Soft Robotic Augmentation of the Right Ventricle in Cases of Elevated Pulmonary Artery Pressure. *Cardiovascular Engineering and Technology*, **2021**, 1	2.2	0
134	Digital solution for follow-up in congenital cardiac surgery. *Cardiology in the Young*, **2021**, 1-9	1	
133	Abnormal Flow Conditions Promote Endocardial Fibroelastosis Via Endothelial-to-Mesenchymal Transition, Which Is Responsive to Losartan Treatment.. *JACC Basic To Translational Science*, **2021**, 6, 984-999	8.7	2
132	Modified Ozaki Procedure Including Annular Enlargement for Small Aortic Annuli in Young Patients. *Annals of Thoracic Surgery*, **2020**, 110, 1364-1371	2.7	7
131	Dynamic Augmentation of Left Ventricle and Mitral Valve Function With an Implantable Soft Robotic Device. *JACC Basic To Translational Science*, **2020**, 5, 229-242	8.7	10
130	Atrioventricular Valve Function Predicts Reintervention in Complete Atrioventricular Septal Defect. *World Journal for Pediatric & Congenital Heart Surgery*, **2020**, 11, 247-248	1.1	1

129	Examination of pathologic features of the right atrioventricular groove in hearts with Ebstein anomaly and correlation with arrhythmias. *Heart Rhythm*, **2020**, 17, 1092-1098	6.7	3
128	Synchronization of a Soft Robotic Ventricular Assist Device to the Native Cardiac Rhythm Using an Epicardial Electrogram. *Journal of Medical Devices, Transactions of the ASME*, **2020**, 14,	1.3	3
127	A geometrically adaptable heart valve replacement. *Science Translational Medicine*, **2020**, 12,	17.5	18
126	A Multi-Mode System for Myocardial Functional and Physiological Assessment during Ex Situ Heart Perfusion. *Journal of Extra-Corporeal Technology*, **2020**, 52, 303-313	0.4	
125	Mitochondrial transplantation enhances murine lung viability and recovery after ischemia-reperfusion injury. *American Journal of Physiology - Lung Cellular and Molecular Physiology*, **2020**, 318, L78-L88	5.8	35
124	Aortic valve neo-cuspidation using the Ozaki technique for acquired and congenital disease: where does this procedure currently stand?. *Indian Journal of Thoracic and Cardiovascular Surgery*, **2020**, 36, 113-122	0.4	10
123	Mitochondrial transplantation for myocardial protection in diabetic hearts. *European Journal of Cardio-thoracic Surgery*, **2020**, 57, 836-845	3	27
122	Fontan with lateral tunnel is associated with improved survival compared with extracardiac conduit. *Journal of Thoracic and Cardiovascular Surgery*, **2020**, 159, 1480-1491.e2	1.5	9
121	Initial experience introducing an enhanced recovery program in congenital cardiac surgery. *Journal of Thoracic and Cardiovascular Surgery*, **2020**, 160, 1313-1321.e5	1.5	17
120	Mitochondrial transplantation by intra-arterial injection for acute kidney injury. *American Journal of Physiology - Renal Physiology*, **2020**, 319, F403-F413	4.3	17
119	Mitochondrial transplantation for myocardial protection in ex-situ-perfused hearts donated after circulatory death. *Journal of Heart and Lung Transplantation*, **2020**, 39, 1279-1288	5.8	10
118	Do patients with anomalous origin of the left coronary artery benefit from an early repair of the mitral valve?. *European Journal of Cardio-thoracic Surgery*, **2020**, 57, 72-77	3	4
117	Preischemic autologous mitochondrial transplantation by intracoronary injection for myocardial protection. *Journal of Thoracic and Cardiovascular Surgery*, **2020**, 160, e15-e29	1.5	33
116	Flow disturbances and the development of endocardial fibroelastosis. *Journal of Thoracic and Cardiovascular Surgery*, **2020**, 159, 637-646	1.5	13
115	Delayed Transplantation of Autologous Mitochondria for Cardioprotection in a Porcine Model. *Annals of Thoracic Surgery*, **2020**, 109, 711-719	2.7	27
114	Mitochondrial transplantation ameliorates acute limb□ischemia. *Journal of Vascular Surgery*, **2020**, 71, 1014-1026	3.5	24
113	Letter by McCully et al Regarding Article, "Mitochondria Do Not Survive Calcium Overload". *Circulation Research*, **2020**, 126, e56-e57	15.7	9
112	Multi-Band Surgery for Repaired Tetralogy of Fallot Patients With Reduced Right Ventricle Ejection Fraction: A Pilot Study. *Frontiers in Physiology*, **2020**, 11, 198	4.6	1

111	Long-term Surgical Prognosis of Primary Supravalvular Aortic Stenosis Repair. *Annals of Thoracic Surgery*, **2019**, 108, 1202-1209	2.7	12
110	Flow disturbances and progression of endocardial fibroelastosis - a case report. *Cardiovascular Pathology*, **2019**, 42, 1-3	3.8	6
109	Mechanical Properties of Autologous Pericardium Change With Fixation Time: Implications for Valve Reconstruction. *Seminars in Thoracic and Cardiovascular Surgery*, **2019**, 31, 852-854	1.7	8
108	Temporal enhancement of 2D color Doppler echocardiography sequences by fragment-based frame reordering and refinement. *International Journal of Computer Assisted Radiology and Surgery*, **2019**, 14, 577-586	3.9	
107	Ventricle stress/strain comparisons between Tetralogy of Fallot patients and healthy using models with different zero-load diastole and systole morphologies. *PLoS ONE*, **2019**, 14, e0220328	3.7	4
106	Interdigitating Myocardial Tongues in Pediatric Cardiac Fibromas: Plausible Substrate for Ventricular Tachycardia and Cardiac Arrest. *JACC: Clinical Electrophysiology*, **2019**, 5, 563-575	4.6	9
105	A Novel Biological Strategy for Myocardial Protection by Intracoronary Delivery of Mitochondria: Safety and Efficacy. *JACC Basic To Translational Science*, **2019**, 4, 871-888	8.7	34
104	Patient-specific in vivo right ventricle material parameter estimation for patients with tetralogy of Fallot using MRI-based models with different zero-load diastole and systole morphologies. *International Journal of Cardiology*, **2019**, 276, 93-99	3.2	8
103	An intraoperative test device for aortic valve repair. *Journal of Thoracic and Cardiovascular Surgery*, **2019**, 157, 126-132	1.5	4
102	Rates of Interventions in Isolated Coarctation Repair in Neonates Versus Infants: Does Age Matter?. *Annals of Thoracic Surgery*, **2019**, 107, 180-186	2.7	7
101	Mitochondrial transplantation prolongs cold ischemia time in murine heart transplantation. *Journal of Heart and Lung Transplantation*, **2019**, 38, 92-99	5.8	45
100	Alloreactivity and allorecognition of syngeneic and allogeneic mitochondria. *Mitochondrion*, **2019**, 46, 103-115	4.9	37
99	Repair of double outlet right ventricle: Midterm outcomes. *Journal of Thoracic and Cardiovascular Surgery*, **2019**,	1.5	12
98	Fast image-based mitral valve simulation from individualized geometry. *International Journal of Medical Robotics and Computer Assisted Surgery*, **2018**, 14, e1880	2.9	5
97	Staged ventricular recruitment in patients with borderline ventricles and large ventricular septal defects. *Journal of Thoracic and Cardiovascular Surgery*, **2018**, 156, 254-264	1.5	13
96	Targeted Increase in Pulmonary Blood Flow in a Bidirectional Glenn Circulation. *Seminars in Thoracic and Cardiovascular Surgery*, **2018**, 30, 182-188	1.7	11
95	A leaflet plication clip is an effective surgical template for mitral valve foldoplasty. *European Journal of Cardio-thoracic Surgery*, **2018**, 53, 939-944	3	0
94	Technical Performance Score Predicts Partial/Transitional Atrioventricular Septal Defect Outcomes. *Annals of Thoracic Surgery*, **2018**, 105, 1461-1468	2.7	8

93	Dehiscence of patch augmentation of a left-sided atrioventricular valve related to strenuous isometric exercise: Case report and failure analysis. *Journal of Thoracic and Cardiovascular Surgery*, **2018**, 156, e165-e168	1.5	1
92	A novel wall water system for cardiopulmonary bypass may reduce the risk of aerosolized infection. *Journal of Thoracic and Cardiovascular Surgery*, **2018**, 156, 318-324	1.5	1
91	Right ventricular outflow tract reintervention after primary tetralogy of Fallot repair in neonates and young infants. *Journal of Thoracic and Cardiovascular Surgery*, **2018**, 155, 726-734	1.5	12
90	Impact of surgical pulmonary valve replacement on ventricular strain and synchrony in patients with repaired tetralogy of Fallot: a cardiovascular magnetic resonance feature tracking study. *Journal of Cardiovascular Magnetic Resonance*, **2018**, 20, 37	6.9	21
89	Valve-sparing repair with intraoperative balloon dilation in tetralogy of Fallot: Midterm results and therapeutic implications. *Journal of Thoracic and Cardiovascular Surgery*, **2018**, 155, 1163-1173.e4	1.5	23
88	Reply to Buratto et al. *European Journal of Cardio-thoracic Surgery*, **2018**, 53, 1296	3	
87	Predictors of Postoperative Rehabilitation Therapy Following Congenital Heart Surgery. *Journal of the American Heart Association*, **2018**, 7,	6	11
86	Autologous mitochondrial transplantation for dysfunction after ischemia-reperfusion injury. *Journal of Thoracic and Cardiovascular Surgery*, **2017**, 154, 286-289	1.5	124
85	Automated detection of coarctation of aorta in neonates from two-dimensional echocardiograms. *Journal of Medical Imaging*, **2017**, 4, 014502	2.6	14
84	Factors associated with severe aortic dilation in patients with Fontan palliation. *Heart*, **2017**, 103, 280-286	5.1	10
83	Hemodynamic parameters predict adverse outcomes following biventricular conversion with single-ventricle palliation takedown. *Journal of Thoracic and Cardiovascular Surgery*, **2017**, 154, 572-582	1.5	20
82	Vascular Endothelial Growth Factor Prevents Endothelial-to-Mesenchymal Transition in Hypertrophy. *Annals of Thoracic Surgery*, **2017**, 104, 932-939	2.7	14
81	Mid-term outcomes in unbalanced complete atrioventricular septal defect: role of biventricular conversion from single-ventricle palliation. *European Journal of Cardio-thoracic Surgery*, **2017**, 52, 565-572	3	17
80	An Intracardiac Soft Robotic Device for Augmentation of Blood Ejection from the Failing Right Ventricle. *Annals of Biomedical Engineering*, **2017**, 45, 2222-2233	4.7	19
79	Augmentation of Bridging Leaflets in Repair of Atrioventricular Canal Defects. *Annals of Thoracic Surgery*, **2017**, 104, e101-e103	2.7	2
78	Mitochondrial Transplantation in Myocardial Ischemia and Reperfusion Injury. *Advances in Experimental Medicine and Biology*, **2017**, 982, 595-619	3.6	43
77	Outcomes following thoracotomy or thoracoscopic vascular ring division in children and young adults. *Journal of Thoracic and Cardiovascular Surgery*, **2017**, 154, 607-615	1.5	18
76	Mitochondrial transplantation: From animal models to clinical use in humans. *Mitochondrion*, **2017**, 34, 127-134	4.9	80

75	Myocardial rescue with autologous mitochondrial transplantation in a porcine model of ischemia/reperfusion. *Journal of Thoracic and Cardiovascular Surgery*, **2017**, 153, 934-943	1.5	88
74	A Growth-Accommodating Implant for Paediatric Applications. *Nature Biomedical Engineering*, **2017**, 1, 818-825	19	20
73	Soft robotic ventricular assist device with septal bracing for therapy of heart failure. *Science Robotics*, **2017**, 2,	18.6	32
72	Cardioscopically Guided Beating Heart Surgery: Paravalvular Leak Repair. *Annals of Thoracic Surgery*, **2017**, 104, 1074-1079	2.7	3
71	Transit and integration of extracellular mitochondria in human heart cells. *Scientific Reports*, **2017**, 7, 17450	4.9	70
70	Technical Performance Score: Predictor of Outcomes in Complete Atrioventricular Septal Defect Repair. *Annals of Thoracic Surgery*, **2017**, 104, 1371-1377	2.7	5
69	Surgical reconstruction of semilunar valves in the growing child: Should we mimic the venous valve? A simulation study. *Journal of Thoracic and Cardiovascular Surgery*, **2017**, 153, 389-396	1.5	9
68	Impact of pacing on systemic ventricular function in L-transposition of the great arteries. *Journal of Thoracic and Cardiovascular Surgery*, **2016**, 151, 131-8	1.5	33
67	Anomalous Aortic Origin of Coronary Arteries: A Single-Center Experience. *Seminars in Thoracic and Cardiovascular Surgery*, **2016**, 28, 791-800	1.7	13
66	Concept of an expandable cardiac valve for surgical implantation in infants and children. *Journal of Thoracic and Cardiovascular Surgery*, **2016**, 152, 1514-1523	1.5	28
65	Management of Systemic Right Ventricular Failure in Patients With Congenitally Corrected Transposition of the Great Arteries. *Circulation*, **2016**, 134, 1293-1302	16.7	67
64	Invited Commentary. *Annals of Thoracic Surgery*, **2016**, 101, 2241-2	2.7	1
63	The American Association for Thoracic Surgery Consensus Guidelines: Reasons and purpose. *Journal of Thoracic and Cardiovascular Surgery*, **2016**, 151, 935-9.e1	1.5	12
62	Mechanical stress is associated with right ventricular response to pulmonary valve replacement in patients with repaired tetralogy of Fallot. *Journal of Thoracic and Cardiovascular Surgery*, **2016**, 151, 687-694.e3	1.5	21
61	Patient-Specific MRI-Based Right Ventricle Models Using Different Zero-Load Diastole and Systole Geometries for Better Cardiac Stress and Strain Calculations and Pulmonary Valve Replacement Surgical Outcome Predictions. *PLoS ONE*, **2016**, 11, e0162986	3.7	18
60	Boston Children?s Hospital Cardiovascular Program. *Seminars in Thoracic and Cardiovascular Surgery*, **2016**, 28, 621-625	1.7	1
59	Mitochondrial transplantation for therapeutic use. *Clinical and Translational Medicine*, **2016**, 5, 16	5.7	79
58	Outcome and performance of bioprosthetic pulmonary valve replacement in patients with congenital heart disease. *Journal of Thoracic and Cardiovascular Surgery*, **2016**, 152, 1333-1342.e3	1.5	43

57	Surgical Innovation: Lessons From the Pragmatic Philosophical School. *Annals of Thoracic Surgery*, **2015**, 100, 778-83	2.7	3
56	Intraoperative Echocardiography for Congenital Aortic Valve Repair: Predictors of Early Reoperation. *Annals of Thoracic Surgery*, **2015**, 100, 678-85	2.7	11
55	50th Anniversary Landmark Commentary on Rein JG, Freed MD, Norwood WI, Castaneda AR. Early and Late Results of Closure of Ventricular Septal Defect in Infancy. Ann Thorac Surg 1977;24:19-27. *Annals of Thoracic Surgery*, **2015**, 100, 6	2.7	5
54	Acute kidney injury after Fontan completion: Risk factors and outcomes. *Journal of Thoracic and Cardiovascular Surgery*, **2015**, 150, 190-7	1.5	39
53	Review of Congenital Mitral Valve Stenosis: Analysis, Repair Techniques and Outcomes. *Cardiovascular Engineering and Technology*, **2015**, 6, 167-73	2.2	11
52	Concentric Tube Robot Design and Optimization Based on Task and Anatomical Constraints. *IEEE Transactions on Robotics*, **2015**, 31, 67-84	6.5	108
51	A light-reflecting balloon catheter for atraumatic tissue defect repair. *Science Translational Medicine*, **2015**, 7, 306ra149	17.5	28
50	Technological innovation in cardiothoracic surgery: A pragmatist approach. *Journal of Thoracic and Cardiovascular Surgery*, **2015**, 150, 755-61	1.5	2
49	Long-term outcomes and risk factors for aortic regurgitation after discrete subvalvular aortic stenosis resection in children. *Heart*, **2015**, 101, 1547-53	5.1	21
48	Tissue removal inside the beating heart using a robotically delivered metal MEMS tool. *International Journal of Robotics Research*, **2015**, 34, 236-247	5.7	18
47	Actin-dependent mitochondrial internalization in cardiomyocytes: evidence for rescue of mitochondrial function. *Biology Open*, **2015**, 4, 622-6	2.2	90
46	An Access-Closure Device for Percutaneous Beating Heart Surgery1. *Journal of Medical Devices, Transactions of the ASME*, **2015**, 9,	1.3	1
45	The safety and efficacy of antifibrinolytic therapy in neonatal cardiac surgery. *PLoS ONE*, **2015**, 10, e0126514	3.7	8
44	Neonatal Mitral Valve Repair in Biventricular Repair, Single Ventricle Palliation, and Secondary Left Ventricular Recruitment: Indications, Techniques, and Mid-Term Outcomes. *Frontiers in Surgery*, **2015**, 2, 59	2.3	6
43	Distention of the Immature Left Ventricle Triggers Development of Endocardial Fibroelastosis: An Animal Model of Endocardial Fibroelastosis Introducing Morphopathological Features of Evolving Fetal Hypoplastic Left Heart Syndrome. *BioMed Research International*, **2015**, 2015, 462469	3	7
42	Surgical repair of congenital aortic regurgitation by aortic root reduction: A finite element study. *Journal of Biomechanics*, **2015**, 48, 3883-9	2.9	4
41	Endocardial fibroelastosis is caused by aberrant endothelial to mesenchymal transition. *Circulation Research*, **2015**, 116, 857-66	15.7	64
40	Valve reconstruction for congenital mitral valve disease. *Multimedia Manual of Cardiothoracic Surgery: MMCTS / European Association for Cardio-Thoracic Surgery*, **2015**, 2015,	0.2	3

39	Mitochondrial Transplantation in Cardiomyocytes: Rescue of Mitochondrial Function and Replacement of mtDNA. *FASEB Journal*, **2015**, 29, 764.4	0.9	
38	Straightening of curved pattern of collagen fibers under load controls aortic valve shape. *Journal of Biomechanics*, **2014**, 47, 341-6	2.9	10
37	Accelerated degeneration of a bovine pericardial bioprosthetic aortic valve in children and young adults. *Circulation*, **2014**, 130, 51-60	16.7	94
36	Mechanisms of tricuspid regurgitation in patients with hypoplastic left heart syndrome undergoing tricuspid valvuloplasty. *Journal of Thoracic and Cardiovascular Surgery*, **2014**, 148, 832-8; discussion 838-40	1.5	28
35	Pressure overload induces IL-18 and IL-18R expression, but markedly suppresses IL-18BP expression in a rabbit model. IL-18 potentiates TNF-□nduced cardiomyocyte death. *Journal of Molecular and Cellular Cardiology*, **2014**, 75, 141-51	5.8	30
34	Fetal aortic valvuloplasty for evolving hypoplastic left heart syndrome: postnatal outcomes of the first 100 patients. *Circulation*, **2014**, 130, 638-45	16.7	124
33	Preliminary experience with porcine intestinal submucosa (CorMatrix) for valve reconstruction in congenital heart disease: histologic evaluation of explanted valves. *Journal of Thoracic and Cardiovascular Surgery*, **2014**, 148, 2216-4, 2225.e1	1.5	82
32	Repair of posterior mitral valve prolapse with a novel leaflet plication clip in an animal model. *Journal of Thoracic and Cardiovascular Surgery*, **2014**, 147, 783-90; discussion 790-1	1.5	7
31	Giant aneurysm of the atrial appendages in infants. *Annals of Pediatric Cardiology*, **2014**, 7, 130-4	0.8	4
30	Technical performance score as predictor for post-discharge reintervention in valve-sparing tetralogy of Fallot repair. *Seminars in Thoracic and Cardiovascular Surgery*, **2014**, 26, 297-303	1.7	17
29	Late left ventricular dysfunction after anatomic repair of congenitally corrected transposition of the great arteries. *Journal of Thoracic and Cardiovascular Surgery*, **2014**, 148, 254-8	1.5	31
28	Right ventricular local longitudinal curvature as a marker and predictor for pulmonary valve replacement surgery outcome: an initial study based on preoperative and postoperative cardiac magnetic resonance data from patients with repaired tetralogy of Fallot. *Journal of Thoracic and Cardiovascular Surgery*, **2014**, 147, 537-8	1.5	6
27	Technical Performance Scores are strongly associated with early mortality, postoperative adverse events, and intensive care unit length of stay-analysis of consecutive discharges for 2 years. *Journal of Thoracic and Cardiovascular Surgery*, **2014**, 147, 389-94, 396.e1-396.e3	1.5	42
26	Tricuspid regurgitation or Ebsteinoid dysplasia of the tricuspid valve in congenitally corrected transposition: is valvuloplasty necessary at anatomic repair?. *Journal of Thoracic and Cardiovascular Surgery*, **2014**, 147, 576-80	1.5	16
25	Treatment planning for a TCPC test case: a numerical investigation under rigid and moving wall assumptions. *International Journal for Numerical Methods in Biomedical Engineering*, **2013**, 29, 197-216	2.6	18
24	Biventricular conversion after single ventricle palliation in patients with small left heart structures: short-term outcomes. *Annals of Thoracic Surgery*, **2013**, 96, 1406-1412	2.7	34
23	Pressure-Overload Hypertrophy of the Developing Heart Reveals Activation of Divergent Gene and Protein Pathways in the Left and Right Ventricular Myocardium. *FASEB Journal*, **2013**, 27, 386.7	0.9	
22	Pressure overload amplifies IL-18 signaling in a rabbit model of myocardial hypertrophy and failure. *FASEB Journal*, **2013**, 27, 1085.7	0.9	

21	Younger age and valve oversizing are predictors of structural valve deterioration after pulmonary valve replacement in patients with tetralogy of Fallot. *Journal of Thoracic and Cardiovascular Surgery*, **2012**, 143, 352-60	1.5	60
20	Congenital mitral valve stenosis: anatomic variants and surgical reconstruction. *Pediatric Cardiac Surgery Annual*, **2012**, 15, 69-74	2.1	23
19	Staged left ventricular recruitment after single-ventricle palliation in patients with borderline left heart hypoplasia. *Journal of the American College of Cardiology*, **2012**, 60, 1966-74	15.1	100
18	Mitral valve operations at a high-volume pediatric heart center: Evolving techniques and improved survival with mitral valve repair versus replacement. *Annals of Pediatric Cardiology*, **2012**, 5, 13-20	0.8	25
17	Force Tracking with Feed-Forward Motion Estimation for Beating Heart Surgery. *IEEE Transactions on Robotics*, **2010**, 26, 888-896	6.5	63
16	Primary left ventricular rehabilitation is effective in maintaining two-ventricle physiology in the borderline left heart. *Journal of Thoracic and Cardiovascular Surgery*, **2009**, 138, 1276-82	1.5	75
15	Fast block flow tracking of atrial septal defects in 4D echocardiography. *Medical Image Analysis*, **2008**, 12, 397-412	15.4	16
14	MRI-Based Patient-Specific Computational Modeling of Right Ventricular Response to Pulmonary Valve Insertion Surgery: A Passive Anisotropic FSI Model with Fiber Orientation **2008**,		1
13	Patient-Specific Virtual Surgery for Right Ventricle Volume Reduction and Patch Design Using MRI-Based 3D FSI RV/LV/Patch Models **2007**,		2
12	REAL-TIME BLOCK FLOW TRACKING OF ATRIAL SEPTAL DEFECT MOTION IN 4D CARDIAC ULTRASOUND **2007**,		3
11	Minimal incision congenital cardiac surgery. *Seminars in Thoracic and Cardiovascular Surgery*, **2007**, 19, 319-24	1.7	8
10	An Active Motion Compensation Instrument for Beating Heart Mitral Valve Surgery **2007**,		25
9	Surgical management of right ventricular dysfunction late after repair of tetralogy of fallot: right ventricular remodeling surgery. *Pediatric Cardiac Surgery Annual*, **2006**, 29-34	2.1	38
8	Cardioprotection afforded by ischemic preconditioning interferes with chronic beta-blocker treatment. *Scandinavian Cardiovascular Journal*, **2004**, 38, 293-9	2	16
7	Development of a Noninvasive Marker of Wall Shear Stress Effects in Discrete Subaortic Stenosis. *Cardiovascular Engineering (Dordrecht, Netherlands)*, **2001**, 1, 137-146		2
6	Ischemic dysfunction in transgenic mice expressing troponin I lacking protein kinase C phosphorylation sites. *American Journal of Physiology - Heart and Circulatory Physiology*, **2001**, 280, H835-43	5.2	39
5	Optimal surgical approach for repair of aortopulmonary window. *Cardiology in the Young*, **2001**, 11, 385-90	1	32
4	Repair of Tetralogy of Fallot in Neonates and Young Infants. *Circulation*, **1999**, 100,	16.7	10

3	Fluorescence measurement of calcium transients in perfused rabbit heart using rhod 2. *American Journal of Physiology - Heart and Circulatory Physiology*, **1998**, 274, H728-41	5.2	49
2	Improved protection of the hypertrophied left ventricle by histidine-containing cardioplegia. *Circulation*, **1995**, 92, II395-9	16.7	19
1	Quality Measures for Congenital and Pediatric Cardiac Surgery		1