

Matthew J Gillespie

List of Publications by Year in descending order

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Version: 2024-02-01

108
papers

3,300
citations

117625

34
h-index

175258

52
g-index

108
all docs

108
docs citations

108
times ranked

2511
citing authors

#	ARTICLE	IF	CITATIONS
1	Age-related enhanced degeneration of bioprosthetic valves due to leaflet calcification, tissue crosslinking, and structural changes. <i>Cardiovascular Research</i> , 2023, 119, 302-315.	3.8	22
2	Liver lymphatic anatomy and role in systemic lymphatic disease. <i>European Radiology</i> , 2022, 32, 112-121.	4.5	12
3	Post-operative Chylothorax in Patients with Repaired Transposition of the Great Arteries. <i>Pediatric Cardiology</i> , 2022, 43, 685-690.	1.3	3
4	Expanded cardiovascular phenotype of Myhre syndrome includes tetralogy of Fallot suggesting a role for <i>SMAD4</i> in human neural crest defects. <i>American Journal of Medical Genetics, Part A</i> , 2022, 188, 1384-1395.	1.2	2
5	Transcatheter Approaches to Pulmonary Valve Replacement in Congenital Heart Disease: Revolutionizing the Management of RVOT Dysfunction?. <i>Seminars in Thoracic and Cardiovascular Surgery</i> , 2022, , .	0.6	2
6	Stent Angioplasty for Post-Operative Coronary Artery Stenosis in Infants. <i>World Journal for Pediatric & Congenital Heart Surgery</i> , 2022, 13, 203-207.	0.8	1
7	Influence of Antegrade Pulmonary Blood Flow on Outcomes of Superior Cavopulmonary Connection. <i>Annals of Thoracic Surgery</i> , 2022, 114, 1771-1777.	1.3	3
8	Multimodal image analysis and subvalvular dynamics in ischemic mitral regurgitation. <i>JTCVS Open</i> , 2021, 5, 48-60.	0.5	0
9	Outcomes of Operator-Directed Sedation and Anesthesiologist Care in the Pediatric/Congenital Catheterization Laboratory. <i>JACC: Cardiovascular Interventions</i> , 2021, 14, 401-413.	2.9	5
10	5-Year Outcomes From the Harmony Native Outflow Tract Early Feasibility Study. <i>JACC: Cardiovascular Interventions</i> , 2021, 14, 816-817.	2.9	23
11	Emerging solutions for the dilated native right ventricular outflow tract. <i>Progress in Pediatric Cardiology</i> , 2021, 61, 101369.	0.4	2
12	Simulation of Delivery of Clip-Based Therapies Within Multimodality Images to Facilitate Preprocedural Planning. <i>Journal of the American Society of Echocardiography</i> , 2021, 34, 1111-1114.	2.8	3
13	Impact of Transcatheter Pulmonary Artery Intervention Following Superior Cavopulmonary Connection on Pulmonary Artery Growth. <i>World Journal for Pediatric & Congenital Heart Surgery</i> , 2021, 12, 635-642.	0.8	1
14	Myocardial tissue salvage is correlated with ischemic border region temperature at reperfusion. <i>Catheterization and Cardiovascular Interventions</i> , 2020, 96, E593-E601.	1.7	2
15	Three-Year Outcomes From the Harmony Native Outflow Tract Early Feasibility Study. <i>Circulation: Cardiovascular Interventions</i> , 2020, 13, e008320.	3.9	53
16	Device Closure of Patent Ductus Arteriosus in Adults. <i>Canadian Journal of Cardiology</i> , 2020, 36, 795-796.	1.7	3
17	Transcatheter Pulmonary Valve Replacement With the Sapien Prosthesis. <i>Journal of the American College of Cardiology</i> , 2020, 76, 2847-2858.	2.8	55
18	Pediatric/Congenital Cardiac Catheterization Quality. <i>JACC: Cardiovascular Interventions</i> , 2020, 13, 2853-2864.	2.9	9

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19	Incidence and fate of device-related left pulmonary artery stenosis and aortic coarctation in small infants undergoing transcatheter patent ductus arteriosus closure. <i>Catheterization and Cardiovascular Interventions</i> , 2020, 96, 889-897.	1.7	21
20	Fatal Ovarian Hemorrhage Associated With Anticoagulation Therapy in a Yucatan Mini-Pig Following Venous Stent Implantation. <i>Frontiers in Veterinary Science</i> , 2020, 7, 18.	2.2	2
21	Use of the GOREÂ® CARDIOFORM Septal Occluder for percutaneous closure of secundum atrial septal defects: Results of the multicenter U.S. IDE trial. <i>Catheterization and Cardiovascular Interventions</i> , 2020, 95, 1296-1304.	1.7	22
22	ASSURED clinical study: New GOREÂ® CARDIOFORM ASD occluder for transcatheter closure of atrial septal defect. <i>Catheterization and Cardiovascular Interventions</i> , 2020, 95, 1285-1295.	1.7	33
23	Prevalence and Cause of Early Fontan Complications: Does the Lymphatic Circulation Play a Role?. <i>Journal of the American Heart Association</i> , 2020, 9, e015318.	3.7	38
24	Amplatzer Piccolo Occluder clinical trial for percutaneous closure of the patent ductus arteriosus in patients ≤ 700 grams. <i>Catheterization and Cardiovascular Interventions</i> , 2020, 96, 1266-1276.	1.7	92
25	Failure to Rescue as an Outcome Metric for Pediatric and Congenital Cardiac Catheterization Laboratory Programs: Analysis of Data From the IMPACT Registry. <i>Journal of the American Heart Association</i> , 2019, 8, e013151.	3.7	12
26	Trends in transcatheter and operative closure of patent ductus arteriosus in neonatal intensive care units: Analysis of data from the Pediatric Health Information Systems Database. <i>American Heart Journal</i> , 2019, 217, 121-130.	2.7	21
27	Interhospital Variation in the Costs of Pediatric/Congenital Cardiac Catheterization Laboratory Procedures: Analysis of Data From the Pediatric Health Information Systems Database. <i>Journal of the American Heart Association</i> , 2019, 8, e011543.	3.7	20
28	Operator-Directed Procedural Sedation in the Congenital Cardiac Catheterization Laboratory. <i>JACC: Cardiovascular Interventions</i> , 2019, 12, 835-843.	2.9	15
29	MRI Evaluation of Lymphatic Abnormalities in the Neck and Thorax after Fontan Surgery: Relationship with Outcome. <i>Radiology</i> , 2019, 291, 774-780.	7.3	76
30	Toward predictive modeling of catheter-based pulmonary valve replacement into native right ventricular outflow tracts. <i>Catheterization and Cardiovascular Interventions</i> , 2019, 93, E143-E152.	1.7	18
31	Results of the combined U.S. multicenter postapproval study of the Nitâ€œOcclud PDA device for percutaneous closure of patent ductus arteriosus. <i>Catheterization and Cardiovascular Interventions</i> , 2019, 93, 645-651.	1.7	15
32	Transcatheter pulmonary valve replacement using the melody valve for treatment of dysfunctional surgical bioprostheses: A multicenter study. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2018, 155, 1712-1724.e1.	0.8	56
33	Branch Pulmonary Artery Valve Implantation Reduces Pulmonary Regurgitation and Improves Right Ventricular Size/Function in Patients With Large Right Ventricular Outflow Tracts. <i>JACC: Cardiovascular Interventions</i> , 2018, 11, 541-550.	2.9	21
34	Transcatheter device closure of atrial septal defects. <i>Current Opinion in Cardiology</i> , 2018, 33, 108-116.	1.8	9
35	Reintervention Burden and Vessel Growth After Surgical Reimplantation of a Pulmonary Artery During Childhood. <i>Pediatric Cardiology</i> , 2018, 39, 390-397.	1.3	5
36	A Comparison of Anterograde Versus Retrograde Approaches for Neonatal Balloon Aortic Valvuloplasty. <i>Pediatric Cardiology</i> , 2018, 39, 450-458.	1.3	4

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37	Association Between Variation in Preoperative Care Before Arterial Switch Operation and Outcomes in Patients With Transposition of the Great Arteries. <i>Circulation</i> , 2018, 138, 2119-2129.	1.6	42
38	Intentional Fracture of Bioprosthetic Valve Frames in Patients Undergoing Valve-in-Valve Transcatheter Pulmonary Valve Replacement. <i>Circulation: Cardiovascular Interventions</i> , 2018, 11, e006453.	3.9	47
39	Accuracy of Phase-Contrast Velocity Mapping Proximal and Distal to Stent Artifact During Cardiac Magnetic Resonance Imaging. <i>American Journal of Cardiology</i> , 2018, 121, 1634-1638.	1.6	3
40	Valvular Insufficiency and Heart Failure. , 2018, , 297-306.		1
41	Nonreentrant atrial tachycardia occurs independently of hypertrophic cardiomyopathy in RASopathy patients. <i>American Journal of Medical Genetics, Part A</i> , 2018, 176, 1711-1722.	1.2	21
42	The influence of deficient retroaortic rim on technical success and early adverse events following device closure of secundum atrial septal defects. <i>Catheterization and Cardiovascular Interventions</i> , 2017, 89, 102-111.	1.7	39
43	Acute and Midterm Outcomes of Transcatheter Pulmonary Valve Replacement for Treatment of Dysfunctional Left Ventricular Outflow Tract Conduits in Patients With Aortopulmonary Transposition and a Systemic Right Ventricle. <i>Circulation: Cardiovascular Interventions</i> , 2017, 10, .	3.9	7
44	Surgical and Catheter-Based Reinterventions Are Common in Long-Term Survivors of the Fontan Operation. <i>Circulation: Cardiovascular Interventions</i> , 2017, 10, .	3.9	41
45	Harmony Feasibility Trial. <i>JACC: Cardiovascular Interventions</i> , 2017, 10, 1763-1773.	2.9	110
46	Patient Selection Process for the Harmony Transcatheter Pulmonary Valve Early Feasibility Study. <i>American Journal of Cardiology</i> , 2017, 120, 1387-1392.	1.6	48
47	Increasing propensity to pursue operative closure of atrial septal defects following changes in the instructions for use of the Amplatzer Septal Occluder device: An observational study using data from the Pediatric Health Information Systems database. <i>American Heart Journal</i> , 2017, 192, 85-97.	2.7	15
48	THE EFFECT OF RADIATION SHIELDS ON OPERATOR EXPOSURE DURING CONGENITAL CARDIAC CATHETERISATION. <i>Radiation Protection Dosimetry</i> , 2016, 171, 520-526.	0.8	0
49	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, 847-859.	0.8	26
50	Implantation of the Medtronic Harmony Transcatheter Pulmonary Valve Improves Right Ventricular Size and Function in an Ovine Model of Postoperative Chronic Pulmonary Insufficiency. <i>Circulation: Cardiovascular Interventions</i> , 2016, 9, .	3.9	20
51	How Local Annular Force and Collagen Density Govern Mitral Annuloplasty Ring Dehiscence Risk. <i>Annals of Thoracic Surgery</i> , 2016, 102, 518-526.	1.3	31
52	Intra-procedural Bronchoscopy to Prevent Bronchial Compression During Pulmonary Artery Stent Angioplasty. <i>Pediatric Cardiology</i> , 2016, 37, 433-441.	1.3	12
53	Percutaneous Lymphatic Embolization of Abnormal Pulmonary Lymphatic Flow as Treatment of Plastic Bronchitis in Patients With Congenital Heart Disease. <i>Circulation</i> , 2016, 133, 1160-1170.	1.6	228
54	Accuracy and Internal Consistency of Cardiac Magnetic Resonance Imaging in Measuring Branch Pulmonary Artery Flows in Patients With Conotruncal Anomalies and Branch Pulmonary Artery Stents. <i>American Journal of Cardiology</i> , 2016, 117, 1160-1166.	1.6	5

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55	Cost comparison of Transcatheter and Operative Pulmonary Valve Replacement (from the Pediatric) Tj ETQq1 1 0.784314 rgBT /Overl	1.6	36
56	Pulmonary Insufficiency: Melody Valve. , 2016, , 267-281.		0
57	Factors associated with systemic to pulmonary arterial collateral flow in single ventricle patients with superior cavopulmonary connections. Heart, 2015, 101, 1813-1818.	2.9	17
58	Accuracy of Transthoracic Echocardiography in Assessing Retro-aortic Rim prior to Device Closure of Atrial Septal Defects. Congenital Heart Disease, 2015, 10, E146-E154.	0.2	9
59	Palliative balloon pulmonary valvuloplasty for infants with unrestrictive ventricular septal defect or single ventricle associated with severe pulmonary stenosis. Catheterization and Cardiovascular Interventions, 2015, 86, 829-833.	1.7	8
60	A case of neonatal myocardial infarction: left coronary artery thrombus resolution and normalisation of ventricular function by intracoronary low-dose tissue plasminogen activator. Cardiology in the Young, 2015, 25, 810-812.	0.8	10
61	Effect of center catheterization volume on risk of catastrophic adverse event after cardiac catheterization in children. American Heart Journal, 2015, 169, 823-832.e5.	2.7	35
62	Transcatheter Pulmonary Valve Replacement for Right Ventricular Outflow Tract Conduit Dysfunction After the Ross Procedure. Annals of Thoracic Surgery, 2015, 100, 996-1003.	1.3	37
63	Cumulative Medical Radiation Exposure Throughout Staged Palliation of Single Ventricle Congenital Heart Disease. Pediatric Cardiology, 2015, 36, 190-195.	1.3	19
64	Cost comparison of transcatheter and operative closures of ostium secundum atrial septal defects. American Heart Journal, 2015, 169, 727-735.e2.	2.7	28
65	Status of Systemic to Pulmonary Arterial Collateral Flow After the Fontan Procedure. American Journal of Cardiology, 2015, 115, 1739-1745.	1.6	48
66	Development of Off-Pump Mitral Valve Replacement in a Porcine Model. Annals of Thoracic Surgery, 2015, 99, 1408-1412.	1.3	2
67	Predictors of Catastrophic Adverse Outcomes in Children With Pulmonary Hypertension Undergoing Cardiac Catheterization. Journal of the American College of Cardiology, 2015, 66, 1261-1269.	2.8	57
68	Trends in Pulmonary Valve Replacement in Children and Adults With Tetralogy of Fallot. American Journal of Cardiology, 2015, 115, 118-124.	1.6	82
69	Outcomes using a clinical practice pathway for the management of pulse loss following pediatric cardiac catheterization. Catheterization and Cardiovascular Interventions, 2015, 85, 111-117.	1.7	24
70	Use and Performance of the Melody Transcatheter Pulmonary Valve in Native and Postsurgical, Nonconduit Right Ventricular Outflow Tracts. Circulation: Cardiovascular Interventions, 2014, 7, 374-380.	3.9	105
71	Will catheter interventions replace surgery for valve abnormalities?. Current Opinion in Cardiology, 2014, 29, 83-90.	1.8	10
72	Impact of pre-stage II hemodynamics and pulmonary artery anatomy on 12-month outcomes in the Pediatric Heart Network Single Ventricle Reconstruction trial. Journal of Thoracic and Cardiovascular Surgery, 2014, 148, 1467-1474.	0.8	24

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73	Patient Radiation Exposure in a Modern, Large-Volume, Pediatric Cardiac Catheterization Laboratory. <i>Pediatric Cardiology</i> , 2014, 35, 870-878.	1.3	55
74	X-ray magnetic resonance fusion modality may reduce radiation exposure and contrast dose in diagnostic cardiac catheterization of congenital heart disease. <i>Catheterization and Cardiovascular Interventions</i> , 2014, 84, 795-800.	1.7	34
75	Prevalence of Deficient Retro-Aortic Rim and Its Effects on Outcomes in Device Closure of Atrial Septal Defects. <i>Pediatric Cardiology</i> , 2014, 35, 1181-1190.	1.3	102
76	Usefulness of Transthoracic Echocardiography to Accurately Diagnose Recoarctation of the Aorta After the Norwood Procedure. <i>American Journal of Cardiology</i> , 2014, 114, 117-121.	1.6	9
77	Ductal spasm during performance of transcatheter ductal occlusion. <i>Catheterization and Cardiovascular Interventions</i> , 2014, 83, 762-767.	1.7	12
78	A model of ischemic mitral regurgitation in pigs with three-dimensional echocardiographic assessment. <i>Journal of Heart Valve Disease</i> , 2014, 23, 713-20.	0.5	4
79	Transcatheter Pulmonary Valve Replacement: A Current Review. <i>Current Pediatrics Reports</i> , 2013, 1, 83-91.	4.0	7
80	Sutureless Mitral Valve Replacement: Initial Steps Toward a Percutaneous Procedure. <i>Annals of Thoracic Surgery</i> , 2013, 96, 670-674.	1.3	11
81	Accuracy of Conventional Oximetry for Flow Estimation in Patients With Superior Cavopulmonary Connection. <i>Circulation: Cardiovascular Imaging</i> , 2013, 6, 943-949.	2.6	28
82	Percutaneous closure of patent ductus arteriosus in small infants with significant lung disease may offer faster recovery of respiratory function when compared to surgical ligation. <i>Catheterization and Cardiovascular Interventions</i> , 2013, 82, 526-533.	1.7	48
83	Acute Effects of Embolizing Systemic-to-Pulmonary Arterial Collaterals on Blood Flow in Patients With Superior Cavopulmonary Connections. <i>Circulation: Cardiovascular Interventions</i> , 2013, 6, 101-106.	3.9	29
84	Intervention for Recoarctation in the Single Ventricle Reconstruction Trial. <i>Circulation</i> , 2013, 128, 954-961.	1.6	68
85	Prevalence of and risk factors for acute occlusive arterial injury following pediatric cardiac catheterization: A large single-center cohort study. <i>Catheterization and Cardiovascular Interventions</i> , 2013, 82, 454-462.	1.7	67
86	Systemic-to-Pulmonary Collateral Flow, as Measured by Cardiac Magnetic Resonance Imaging, Is Associated With Acute Post-Fontan Clinical Outcomes. <i>Circulation: Cardiovascular Imaging</i> , 2012, 5, 218-225.	2.6	70
87	Melody Valve Implant Within Failed Bioprosthetic Valves in the Pulmonary Position. <i>Circulation: Cardiovascular Interventions</i> , 2012, 5, 862-870.	3.9	151
88	Relation of Left Ventricular End Diastolic Pressure to Right Ventricular End Diastolic Volume After Operative Treatment of Tetralogy of Fallot. <i>American Journal of Cardiology</i> , 2012, 109, 417-422.	1.6	28
89	Melody Valve-in-Ring Procedure for Mitral Valve Replacement: Feasibility in Four Annuloplasty Types. <i>Annals of Thoracic Surgery</i> , 2012, 93, 783-788.	1.3	29
90	An ovine model of pulmonary insufficiency and right ventricular outflow tract dilatation. <i>Journal of Heart Valve Disease</i> , 2012, 21, 247-52.	0.5	1

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91	Percutaneous Transvenous Melody Valve-in-Ring Procedure for Mitral Valve Replacement. Journal of the American College of Cardiology, 2011, 58, 2475-2480.	2.8	36
92	Differential Branch Pulmonary Artery Regurgitant Fraction Is a Function of Differential Pulmonary Arterial Anatomy and Pulmonary Vascular Resistance. JACC: Cardiovascular Imaging, 2011, 4, 506-513.	5.3	21
93	Practice variability and outcomes of coil embolization of aortopulmonary collaterals before fontan completion: A report from the Pediatric Heart Network Fontan Cross-Sectional Study. American Heart Journal, 2011, 162, 125-130.	2.7	51
94	X-Ray Magnetic Resonance Fusion to Internal Markers and Utility in Congenital Heart Disease Catheterization. Circulation: Cardiovascular Imaging, 2011, 4, 415-424.	2.6	49
95	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. Circulation: Cardiovascular Interventions, 2011, 4, 80-87.	3.9	29
96	Bilateral Branch Pulmonary Artery Melody Valve Implantation for Treatment of Complex Right Ventricular Outflow Tract Dysfunction in a High-Risk Patient. Circulation: Cardiovascular Interventions, 2011, 4, e21-3.	3.9	38
97	Localized Cooling Device for Myocardial Tissue Salvage. , 2011, , .		0
98	The amplatzer vascular plug and amplatzer vascular plug II for vascular occlusion procedures in 50 patients with congenital cardiovascular disease. Catheterization and Cardiovascular Interventions, 2010, 76, 411-417.	1.7	57
99	Use of Angiographic CT Imaging in the Cardiac Catheterization Laboratory for Congenital Heart Disease. JACC: Cardiovascular Imaging, 2010, 3, 1149-1157.	5.3	84
100	Noninvasive Quantification of Systemic-to-Pulmonary Collateral Flow. Circulation: Cardiovascular Imaging, 2009, 2, 405-411.	2.6	99
101	Pre-Fontan cardiac magnetic resonance predicts post-Fontan length of stay and avoids ionizing radiation. Journal of Thoracic and Cardiovascular Surgery, 2009, 138, 941-947.	0.8	15
102	Relief of branch pulmonary artery stenosis reduces pulmonary valve insufficiency in a swine model. Journal of Thoracic and Cardiovascular Surgery, 2009, 138, 382-389.	0.8	30
103	Transcatheter treatment for systemic-to-pulmonary artery shunt obstruction in infants and children. Catheterization and Cardiovascular Interventions, 2008, 71, 928-935.	1.7	37
104	Novel use of a modified Amplatzer Vascular Plug [®] to occlude a patent ductus arteriosus in two patients. Catheterization and Cardiovascular Interventions, 2008, 72, 82-86.	1.7	20
105	Substrate Characterization of Ventricular Tachycardia in a Porcine Model of Tetralogy of Fallot Using Noncontact Mapping. PACE - Pacing and Clinical Electrophysiology, 2007, 30, 1316-1322.	1.2	5
106	Endovascular stents for relief of cyanosis in single-ventricle patients with shunt or conduit-dependent pulmonary blood flow. Catheterization and Cardiovascular Interventions, 2006, 68, 280-286.	1.7	29
107	Risk factors for adverse outcomes after surgery on the systemic atrioventricular valve in 109 children. Cardiology in the Young, 2006, 16, 35-42.	0.8	13
108	Novel approach to percutaneous stent implantation for coarctation of the aorta: The railway technique. Catheterization and Cardiovascular Interventions, 2005, 65, 584-587.	1.7	6