# Matthew J Gillespie

List of Publications by Year
in descending order

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| 108 | 3,300 | 117625 | 175258 |
|---|---|---|---|
| papers | citations | 34 h-index | 52 g-index |

| 108 | 108 | 108 | 2511 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Percutaneous Lymphatic Embolization of Abnormal Pulmonary Lymphatic Flow as Treatment of Plastic Bronchitis in Patients With Congenital Heart Disease. Circulation, 2016, 133, 1160-1170. | 1.6 | 228 |
| 2 | Melody Valve Implant Within Failed Bioprosthetic Valves in the Pulmonary Position. Circulation: Cardiovascular Interventions, 2012, 5, 862-870. | 3.9 | 151 |
| 3 | Harmony Feasibility Trial. JACC: Cardiovascular Interventions, 2017, 10, 1763-1773. | 2.9 | 110 |
| 4 | 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 |
| 5 | Prevalence of Deficient Retro-Aortic Rim and Its Effects on Outcomes in Device Closure of Atrial Septal Defects. Pediatric Cardiology, 2014, 35, 1181-1190. | 1.3 | 102 |
| 6 | Noninvasive Quantification of Systemic-to-Pulmonary Collateral Flow. Circulation: Cardiovascular Imaging, 2009, 2, 405-411. | 2.6 | 99 |
| 7 | Amplatzer Piccolo Occluder clinical trial for percutaneous closure of the patent ductus arteriosus in patients â‰¥700 grams. Catheterization and Cardiovascular Interventions, 2020, 96, 1266-1276. | 1.7 | 92 |
| 8 | Use of Angiographic CT Imaging in the Cardiac Catheterization Laboratory for Congenital Heart Disease. JACC: Cardiovascular Imaging, 2010, 3, 1149-1157. | 5.3 | 84 |
| 9 | Trends in Pulmonary Valve Replacement in Children and Adults With Tetralogy of Fallot. American Journal of Cardiology, 2015, 115, 118-124. | 1.6 | 82 |
| 10 | MRI Evaluation of Lymphatic Abnormalities in the Neck and Thorax after Fontan Surgery: Relationship with Outcome. Radiology, 2019, 291, 774-780. | 7.3 | 76 |
| 11 | Systemic-to-Pulmonary Collateral Flow, as Measured by Cardiac Magnetic Resonance Imaging, Is Associated With Acute Post-Fontan Clinical Outcomes. Circulation: Cardiovascular Imaging, 2012, 5, 218-225. | 2.6 | 70 |
| 12 | Intervention for Recoarctation in the Single Ventricle Reconstruction Trial. Circulation, 2013, 128, 954-961. | 1.6 | 68 |
| 13 | Prevalence of and risk factors for acute occlusive arterial injury following pediatric cardiac catheterization: A large singleâ€center cohort study. Catheterization and Cardiovascular Interventions, 2013, 82, 454-462. | 1.7 | 67 |
| 14 | 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 |
| 15 | Predictors of Catastrophic AdverseÂOutcomes in Children With Pulmonary Hypertension Undergoing Cardiac Catheterization. Journal of the American College of Cardiology, 2015, 66, 1261-1269. | 2.8 | 57 |
| 16 | Transcatheter pulmonary valve replacement using the melody valve for treatment of dysfunctional surgical bioprostheses: A multicenter study. Journal of Thoracic and Cardiovascular Surgery, 2018, 155, 1712-1724.e1. | 0.8 | 56 |
| 17 | Patient Radiation Exposure in a Modern, Large-Volume, Pediatric Cardiac Catheterization Laboratory. Pediatric Cardiology, 2014, 35, 870-878. | 1.3 | 55 |
| 18 | Transcatheter Pulmonary Valve Replacement With the Sapien Prosthesis. Journal of the American College of Cardiology, 2020, 76, 2847-2858. | 2.8 | 55 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Three-Year Outcomes From the Harmony Native Outflow Tract Early Feasibility Study. Circulation: Cardiovascular Interventions, 2020, 13, e008320. | 3.9 | 53 |
| 20 | 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 |
| 21 | 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 |
| 22 | 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. Catheterization and Cardiovascular Interventions, 2013, 82, 526-533. | 1.7 | 48 |
| 23 | Status of Systemic to Pulmonary Arterial Collateral Flow After the Fontan Procedure. American Journal of Cardiology, 2015, 115, 1739-1745. | 1.6 | 48 |
| 24 | Patient Selection Process for the Harmony Transcatheter Pulmonary Valve Early Feasibility Study. American Journal of Cardiology, 2017, 120, 1387-1392. | 1.6 | 48 |
| 25 | Intentional Fracture of Bioprosthetic Valve Frames in Patients Undergoing Valve-in-Valve Transcatheter Pulmonary Valve Replacement. Circulation: Cardiovascular Interventions, 2018, 11, e006453. | 3.9 | 47 |
| 26 | Association Between Variation in Preoperative Care Before Arterial Switch Operation and Outcomes in Patients With Transposition of the Great Arteries. Circulation, 2018, 138, 2119-2129. | 1.6 | 42 |
| 27 | Surgical and Catheter-Based Reinterventions Are Common in Long-Term Survivors of the Fontan Operation. Circulation: Cardiovascular Interventions, 2017, 10, . | 3.9 | 41 |
| 28 | The influence of deficient retroâ€aortic rim on technical success and early adverse events following device closure of secundum atrial septal defects. Catheterization and Cardiovascular Interventions, 2017, 89, 102-111. | 1.7 | 39 |
| 29 | 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 |
| 30 | Prevalence and Cause of Early Fontan Complications: Does the Lymphatic Circulation Play a Role?. Journal of the American Heart Association, 2020, 9, e015318. | 3.7 | 38 |
| 31 | Transcatheter treatment for systemicâ€toâ€pulmonary artery shunt obstruction in infants and children. Catheterization and Cardiovascular Interventions, 2008, 71, 928-935. | 1.7 | 37 |
| 32 | 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 |
| 33 | 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 |
| 34 | Cost comparison of Transcatheter and Operative Pulmonary Valve Replacement (from the Pediatric) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5 | 1.6 | 36 |
| 35 | 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 |
| 36 | Xâ€ray magnetic resonance fusion modality may reduce radiation exposure and contrast dose in diagnostic cardiac catheterization of congenital heart disease. Catheterization and Cardiovascular Interventions, 2014, 84, 795-800. | 1.7 | 34 |

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|---|---|---|---|
| 37 | ASSURED clinical study: New GOREÂ® CARDIOFORM ASD occluder for transcatheter closure of atrial septal defect. Catheterization and Cardiovascular Interventions, 2020, 95, 1285-1295. | 1.7 | 33 |
| 38 | How Local Annular Force and Collagen Density Govern Mitral Annuloplasty Ring Dehiscence Risk. Annals of Thoracic Surgery, 2016, 102, 518-526. | 1.3 | 31 |
| 39 | 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 |
| 40 | 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 |
| 41 | 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 |
| 42 | Melody Valve-in-Ring Procedure for Mitral Valve Replacement: Feasibility in Four Annuloplasty Types. Annals of Thoracic Surgery, 2012, 93, 783-788. | 1.3 | 29 |
| 43 | Acute Effects of Embolizing Systemic-to-Pulmonary Arterial Collaterals on Blood Flow in Patients With Superior Cavopulmonary Connections. Circulation: Cardiovascular Interventions, 2013, 6, 101-106. | 3.9 | 29 |
| 44 | Relation of Left Ventricular End Diastolic Pressure to Right Ventricular End Diastolic Volume After Operative Treatment of Tetralogy of Fallot. American Journal of Cardiology, 2012, 109, 417-422. | 1.6 | 28 |
| 45 | Accuracy of Conventional Oximetry for Flow Estimation in Patients With Superior Cavopulmonary Connection. Circulation: Cardiovascular Imaging, 2013, 6, 943-949. | 2.6 | 28 |
| 46 | Cost comparison of transcatheter and operative closures of ostium secundum atrial septal defects. American Heart Journal, 2015, 169, 727-735.e2. | 2.7 | 28 |
| 47 | 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, 847-859. | 0.8 | 26 |
| 48 | Impact of preâ€“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 |
| 49 | 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 |
| 50 | 5-Year Outcomes From the Harmony Native Outflow Tract Early Feasibility Study. JACC: Cardiovascular Interventions, 2021, 14, 816-817. | 2.9 | 23 |
| 51 | Use of the GOREÂ® CARDIOFORM Septal Occluder for percutaneous closure of secundum atrial septal defects: Results of the multicenter U.S. IDE trial. Catheterization and Cardiovascular Interventions, 2020, 95, 1296-1304. | 1.7 | 22 |
| 52 | Age-related enhanced degeneration of bioprosthetic valves due to leaflet calcification, tissue crosslinking, and structural changes. Cardiovascular Research, 2023, 119, 302-315. | 3.8 | 22 |
| 53 | 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 |
| 54 | Branch Pulmonary Artery Valve Implantation Reduces Pulmonary Regurgitation and Improves Right Ventricular Size/Function in Patients With Large Right Ventricular Outflow Tracts. JACC: Cardiovascular Interventions, 2018, 11, 541-550. | 2.9 | 21 |

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|---|---|---|---|
| 55 | Nonreentrant atrial tachycardia occurs independently of hypertrophic cardiomyopathy in RASopathy patients. American Journal of Medical Genetics, Part A, 2018, 176, 1711-1722. | 1.2 | 21 |
| 56 | 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. American Heart Journal, 2019, 217, 121-130. | 2.7 | 21 |
| 57 | Incidence and fate of deviceâ€related left pulmonary artery stenosis and aortic coarctation in small infants undergoing transcatheter patent ductus arteriosus closure. Catheterization and Cardiovascular Interventions, 2020, 96, 889-897. | 1.7 | 21 |
| 58 | Novel use of a modified Amplatzer Vascular PlugÂ® to occlude a patent ductus arteriosus in two patients. Catheterization and Cardiovascular Interventions, 2008, 72, 82-86. | 1.7 | 20 |
| 59 | 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, . | 3.9 | 20 |
| 60 | Interhospital Variation in the Costs of Pediatric/Congenital Cardiac Catheterization Laboratory Procedures: Analysis of Data From the Pediatric Health Information Systems Database. Journal of the American Heart Association, 2019, 8, e011543. | 3.7 | 20 |
| 61 | Cumulative Medical Radiation Exposure Throughout Staged Palliation of Single Ventricle Congenital Heart Disease. Pediatric Cardiology, 2015, 36, 190-195. | 1.3 | 19 |
| 62 | Toward predictive modeling of catheterâ€based pulmonary valve replacement into native right ventricular outflow tracts. Catheterization and Cardiovascular Interventions, 2019, 93, E143-E152. | 1.7 | 18 |
| 63 | 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 |
| 64 | 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 |
| 65 | 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. American Heart Journal, 2017, 192, 85-97. | 2.7 | 15 |
| 66 | Operator-Directed Procedural Sedation inÂthe Congenital Cardiac CatheterizationÂLaboratory. JACC: Cardiovascular Interventions, 2019, 12, 835-843. | 2.9 | 15 |
| 67 | Results of the combined U.S. multicenter postapproval study of the Nitâ€Occlud PDA device for percutaneous closure of patent ductus arteriosus. Catheterization and Cardiovascular Interventions, 2019, 93, 645-651. | 1.7 | 15 |
| 68 | Risk factors for adverse outcomes after surgery on the systemic atriventricular valve in 109 children. Cardiology in the Young, 2006, 16, 35-42. | 0.8 | 13 |
| 69 | Intra-procedural Bronchoscopy to Prevent Bronchial Compression During Pulmonary Artery Stent Angioplasty. Pediatric Cardiology, 2016, 37, 433-441. | 1.3 | 12 |
| 70 | Failure to Rescue as an Outcome Metric for Pediatric and Congenital Cardiac Catheterization Laboratory Programs: Analysis of Data From the IMPACT Registry. Journal of the American Heart Association, 2019, 8, e013151. | 3.7 | 12 |
| 71 | Liver lymphatic anatomy and role in systemic lymphatic disease. European Radiology, 2022, 32, 112-121. | 4.5 | 12 |
| 72 | Ductal spasm during performance of transcatheter ductal occlusion. Catheterization and Cardiovascular Interventions, 2014, 83, 762-767. | 1.7 | 12 |

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|---|---|---|---|
| 73 | Sutureless Mitral Valve Replacement: Initial Steps Toward a Percutaneous Procedure. Annals of Thoracic Surgery, 2013, 96, 670-674. | 1.3 | 11 |
| 74 | Will catheter interventions replace surgery for valve abnormalities?. Current Opinion in Cardiology, 2014, 29, 83-90. | 1.8 | 10 |
| 75 | 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 |
| 76 | Usefulness of Transthoracic Echocardiography to AccuratelyÂDiagnose Recoarctation of the Aorta After the Norwood Procedure. American Journal of Cardiology, 2014, 114, 117-121. | 1.6 | 9 |
| 77 | 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 |
| 78 | Transcatheter device closure of atrial septal defects. Current Opinion in Cardiology, 2018, 33, 108-116. | 1.8 | 9 |
| 79 | Pediatric/Congenital Cardiac Catheterization Quality. JACC: Cardiovascular Interventions, 2020, 13, 2853-2864. | 2.9 | 9 |
| 80 | 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 |
| 81 | Transcatheter Pulmonary Valve Replacement: A Current Review. Current Pediatrics Reports, 2013, 1, 83-91. | 4.0 | 7 |
| 82 | 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. Circulation: Cardiovascular Interventions, 2017, 10, . | 3.9 | 7 |
| 83 | 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 |
| 84 | 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 |
| 85 | 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. American Journal of Cardiology, 2016, 117, 1160-1166. | 1.6 | 5 |
| 86 | Reintervention Burden and Vessel Growth After Surgical Reimplantation of a Pulmonary Artery During Childhood. Pediatric Cardiology, 2018, 39, 390-397. | 1.3 | 5 |
| 87 | Outcomes of Operator-Directed SedationÂand Anesthesiologist Care inÂtheÂPediatric/Congenital CatheterizationÂLaboratory. JACC: Cardiovascular Interventions, 2021, 14, 401-413. | 2.9 | 5 |
| 88 | A Comparison of Anterograde Versus Retrograde Approaches for Neonatal Balloon Aortic Valvuloplasty. Pediatric Cardiology, 2018, 39, 450-458. | 1.3 | 4 |
| 89 | A model of ischemic mitral regurgitation in pigs with three-dimensional echocardiographic assessment. Journal of Heart Valve Disease, 2014, 23, 713-20. | 0.5 | 4 |
| 90 | Accuracy of Phase-Contrast Velocity Mapping Proximal and Distal to Stent Artifact During Cardiac Magnetic Resonance Imaging. American Journal of Cardiology, 2018, 121, 1634-1638. | 1.6 | 3 |

| # | Article | IF | Citations |
|---|---|---|---|
| 91 | Device Closure of Patent Ductus Arteriosus in Adults. Canadian Journal of Cardiology, 2020, 36, 795-796. | 1.7 | 3 |
| 92 | Simulation of Delivery of Clip-Based Therapies Within Multimodality Images to Facilitate Preprocedural Planning. Journal of the American Society of Echocardiography, 2021, 34, 1111-1114. | 2.8 | 3 |
| 93 | Post-operative Chylothorax in Patients with Repaired Transposition of the Great Arteries. Pediatric Cardiology, 2022, 43, 685-690. | 1.3 | 3 |
| 94 | Influence of Antegrade Pulmonary Blood Flow on Outcomes of Superior Cavopulmonary Connection. Annals of Thoracic Surgery, 2022, 114, 1771-1777. | 1.3 | 3 |
| 95 | Development of Off-Pump Mitral Valve Replacement in a Porcine Model. Annals of Thoracic Surgery, 2015, 99, 1408-1412. | 1.3 | 2 |
| 96 | Myocardial tissue salvage is correlated with ischemic border region temperature at reperfusion. Catheterization and Cardiovascular Interventions, 2020, 96, E593-E601. | 1.7 | 2 |
| 97 | Fatal Ovarian Hemorrhage Associated With Anticoagulation Therapy in a Yucatan Mini-Pig Following Venous Stent Implantation. Frontiers in Veterinary Science, 2020, 7, 18. | 2.2 | 2 |
| 98 | Emerging solutions for the dilated native right ventricular outflow tract. Progress in Pediatric Cardiology, 2021, 61, 101369. | 0.4 | 2 |
| 99 | Expanded cardiovascular phenotype of Myhre syndrome includes tetralogy of Fallot suggesting a role for <scp>SMAD4</scp> in human neural crest defects. American Journal of Medical Genetics, Part A, 2022, 188, 1384-1395. | 1.2 | 2 |
| 100 | Transcatheter Approaches to Pulmonary Valve Replacement in Congenital Heart Disease: Revolutionizing the Management of RVOT Dysfunction?. Seminars in Thoracic and Cardiovascular Surgery, 2022, , . | 0.6 | 2 |
| 101 | Valvular Insufficiency and Heart Failure. , 2018, , 297-306. | | 1 |
| 102 | Impact of Transcatheter Pulmonary Artery Intervention Following Superior Cavopulmonary Connection on Pulmonary Artery Growth. World Journal for Pediatric & Congenital Heart Surgery, 2021, 12, 635-642. | 0.8 | 1 |
| 103 | An ovine model of pulmonary insufficiency and right ventricular outflow tract dilatation. Journal of Heart Valve Disease, 2012, 21, 247-52. | 0.5 | 1 |
| 104 | Stent Angioplasty for Post-Operative Coronary Artery Stenosis in Infants. World Journal for Pediatric & Congenital Heart Surgery, 2022, 13, 203-207. | 0.8 | 1 |
| 105 | THE EFFECT OF RADIATION SHIELDS ON OPERATOR EXPOSURE DURING CONGENITAL CARDIAC CATHETERISATION. Radiation Protection Dosimetry, 2016, 171, 520-526. | 0.8 | 0 |
| 106 | Multimodal image analysis and subvalvular dynamics in ischemic mitral regurgitation. JTCVS Open, 2021, 5, 48-60. | 0.5 | 0 |
| 107 | Localized Cooling Device for Myocardial Tissue Salvage. , 2011, , . | | 0 |
| 108 | Pulmonary Insufficiency: Melody Valve. , 2016, , 267-281. | | 0 |