

Sitaram M Emani

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

120
papers

1,938
citations

22
h-index

39
g-index

131
ext. papers

2,584
ext. citations

3.3
avg, IF

5.14
L-index

#	Paper	IF	Citations
120	Autologous mitochondrial transplantation for dysfunction after ischemia-reperfusion injury. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2017 , 154, 286-289	1.5	124
119	Fetal aortic valvuloplasty for evolving hypoplastic left heart syndrome: postnatal outcomes of the first 100 patients. <i>Circulation</i> , 2014 , 130, 638-45	16.7	124
118	Staged left ventricular recruitment after single-ventricle palliation in patients with borderline left heart hypoplasia. <i>Journal of the American College of Cardiology</i> , 2012 , 60, 1966-74	15.1	100
117	Cardiac extracellular matrix-fibrin hybrid scaffolds with tunable properties for cardiovascular tissue engineering. <i>Acta Biomaterialia</i> , 2015 , 14, 84-95	10.8	88
116	Preliminary experience with porcine intestinal submucosa (CorMatrix) for valve reconstruction in congenital heart disease: histologic evaluation of explanted valves. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2014 , 148, 2216-4, 2225.e1	1.5	82
115	Mitochondrial transplantation: From animal models to clinical use in humans. <i>Mitochondrion</i> , 2017 , 34, 127-134	4.9	80
114	Primary left ventricular rehabilitation is effective in maintaining two-ventricle physiology in the borderline left heart. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2009 , 138, 1276-82	1.5	75
113	Stented bovine jugular vein graft (Melody valve) for surgical mitral valve replacement in infants and children. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2014 , 148, 1443-9	1.5	73
112	Mitochondrial Transplantation in Myocardial Ischemia and Reperfusion Injury. <i>Advances in Experimental Medicine and Biology</i> , 2017 , 982, 595-619	3.6	43
111	Impact of age and duration of banding on left ventricular preparation before anatomic repair for congenitally corrected transposition of the great arteries. <i>Annals of Thoracic Surgery</i> , 2013 , 96, 603-10	2.7	42
110	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. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2014 , 147, 389-94, 396.e1-396.e3	1.5	42
109	Mitochondrial transplantation: applications for pediatric patients with congenital heart disease. <i>Translational Pediatrics</i> , 2018 , 7, 169-175	4.2	42
108	Host non-inflammatory neutrophils mediate the engraftment of bioengineered vascular networks. <i>Nature Biomedical Engineering</i> , 2017 , 1,	19	37
107	Biventricular conversion after single ventricle palliation in patients with small left heart structures: short-term outcomes. <i>Annals of Thoracic Surgery</i> , 2013 , 96, 1406-1412	2.7	34
106	Perinatal and infant outcomes of prenatal diagnosis of heterotaxy syndrome (asplenia and polysplenia). <i>American Journal of Cardiology</i> , 2014 , 114, 612-7	3	33
105	Outcomes after anatomic repair for d-transposition of the great arteries with left ventricular outflow tract obstruction. <i>Circulation</i> , 2009 , 120, S53-8	16.7	31
104	Aspirin unresponsiveness predicts thrombosis in high-risk pediatric patients after cardiac surgery. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2014 , 148, 810-4; discussion 814-6	1.5	29

103	Biventricular conversion after single-ventricle palliation in unbalanced atrioventricular canal defects. <i>Annals of Thoracic Surgery</i> , 2013 , 95, 2086-95; discussion 2095-6	2.7	29
102	Concept of an expandable cardiac valve for surgical implantation in infants and children. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2016 , 152, 1514-1523	1.5	28
101	Hypercoagulability markers predict thrombosis in single ventricle neonates undergoing cardiac surgery. <i>Annals of Thoracic Surgery</i> , 2013 , 96, 651-6	2.7	28
100	Relationship Between Transfusion of Blood Products and the Incidence of Thrombotic Complications in Neonates and Infants Undergoing Cardiac Surgery. <i>Journal of Cardiothoracic and Vascular Anesthesia</i> , 2017 , 31, 1943-1948	2.1	27
99	Valve-sparing repair with intraoperative balloon dilation in tetralogy of Fallot: Midterm results and therapeutic implications. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2018 , 155, 1163-1173.e4	1.5	23
98	Cardiovascular magnetic resonance parameters associated with early transplant-free survival in children with small left hearts following conversion from a univentricular to biventricular circulation. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2014 , 16, 73	6.9	22
97	Durability of large diameter right ventricular outflow tract conduits in adults with congenital heart disease. <i>International Journal of Cardiology</i> , 2014 , 175, 455-63	3.2	21
96	Strategies to maintain biventricular circulation in patients with high-risk anatomy. <i>Pediatric Cardiac Surgery Annual</i> , 2013 , 16, 37-42	2.1	21
95	Hemodynamic parameters predict adverse outcomes following biventricular conversion with single-ventricle palliation takedown. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2017 , 154, 572-582	1.5	20
94	Hybrid Approach for Off-Pump Pulmonary Valve Replacement in Patients With a Dilated Right Ventricular Outflow Tract. <i>Annals of Thoracic Surgery</i> , 2015 , 100, e99-101	2.7	20
93	Outcomes following thoracotomy or thoracoscopic vascular ring division in children and young adults. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2017 , 154, 607-615	1.5	18
92	Assessment of the Melody valve in the mitral position in young children by echocardiography. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2017 , 153, 153-160.e1	1.5	18
91	Autologous mitochondrial transplantation for cardiogenic shock in pediatric patients following ischemia-reperfusion injury. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2021 , 162, 992-1001	1.5	18
90	Mid-term outcomes in unbalanced complete atrioventricular septal defect: role of biventricular conversion from single-ventricle palliation. <i>European Journal of Cardio-thoracic Surgery</i> , 2017 , 52, 565-572		17
89	Left Ventricular Remodeling and Function in Children with Biventricular Circulation After Fetal Aortic Valvuloplasty. <i>Pediatric Cardiology</i> , 2015 , 36, 1502-9	2.1	17
88	Impact of the cone operation on left ventricular size, function, and dyssynchrony in Ebstein anomaly: a cardiovascular magnetic resonance study. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2018 , 20, 32	6.9	17
87	Technical performance score as predictor for post-discharge reintervention in valve-sparing tetralogy of Fallot repair. <i>Seminars in Thoracic and Cardiovascular Surgery</i> , 2014 , 26, 297-303	1.7	17
86	Hypercoagulability panel testing predicts thrombosis in neonates undergoing cardiac surgery. <i>American Journal of Hematology</i> , 2014 , 89, 151-5	7.1	16

85	Tricuspid regurgitation or Ebsteinoid dysplasia of the tricuspid valve in congenitally corrected transposition: is valvuloplasty necessary at anatomic repair?. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2014 , 147, 576-80	1.5	16
84	Options for prosthetic pulmonary valve replacement. <i>Pediatric Cardiac Surgery Annual</i> , 2012 , 15, 34-7	2.1	16
83	Thromboelastography Is Associated With Surrogates for Bleeding After Pediatric Cardiac Operations. <i>Annals of Thoracic Surgery</i> , 2018 , 106, 799-806	2.7	15
82	Incidence and Predictors for Postoperative Thrombotic Complications in Children With Surgical and Nonsurgical Heart Disease. <i>Annals of Thoracic Surgery</i> , 2016 , 102, 1360-7	2.7	14
81	Platelet testing to guide aspirin dose adjustment in pediatric patients after cardiac surgery. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2017 , 154, 1723-1730	1.5	14
80	Staged ventricular recruitment in patients with borderline ventricles and large ventricular septal defects. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2018 , 156, 254-264	1.5	13
79	Ring-reinforced Sano conduit at Norwood stage I reduces proximal conduit obstruction. <i>Annals of Thoracic Surgery</i> , 2015 , 99, 171-9	2.7	13
78	Flow disturbances and the development of endocardial fibroelastosis. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2020 , 159, 637-646	1.5	13
77	Long-term Surgical Prognosis of Primary Supravalvular Aortic Stenosis Repair. <i>Annals of Thoracic Surgery</i> , 2019 , 108, 1202-1209	2.7	12
76	Right ventricular outflow tract reintervention after primary tetralogy of Fallot repair in neonates and young infants. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2018 , 155, 726-734	1.5	12
75	Takedown of cavopulmonary shunt at biventricular repair. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2014 , 148, 1506-11	1.5	12
74	Repair of double outlet right ventricle: Midterm outcomes. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2019 ,	1.5	12
73	Clinical and Hemodynamic Results After Conversion from Single to Biventricular Circulation After Fetal Aortic Stenosis Intervention. <i>American Journal of Cardiology</i> , 2018 , 122, 511-516	3	12
72	Morphologic and histologic findings in bioprosthetic valves explanted from the mitral position in children younger than 5 years of age. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2018 , 155, 746-752	1.5	11
71	Epicardial Echocardiography in Pediatric and Congenital Heart Surgery. <i>World Journal for Pediatric & Congenital Heart Surgery</i> , 2019 , 10, 343-350	1.1	10
70	Mitochondrial transplantation for myocardial protection in ex-situ-perfused hearts donated after circulatory death. <i>Journal of Heart and Lung Transplantation</i> , 2020 , 39, 1279-1288	5.8	10
69	Partial thromboplastin time is more predictive of bleeding than anti-Xa levels in heparinized pediatric patients after cardiac surgery. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2018 , 156, 332-340.e1	1.5	9
68	Surgical reconstruction of semilunar valves in the growing child: Should we mimic the venous valve? A simulation study. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2017 , 153, 389-396	1.5	9

67	Novel microfluidic platform for automated lab-on-chip testing of hypercoagulability panel. <i>Blood Coagulation and Fibrinolysis</i> , 2012 , 23, 760-8	1	9
66	Executive Summary of Recommendations and Expert Consensus for Plasma and Platelet Transfusion Practice in Critically Ill Children: From the Transfusion and Anemia EXPertise Initiative-Control/Avoidance of Bleeding (TAXI-CAB).. <i>Pediatric Critical Care Medicine</i> , 2022 , 23, 34-51	3	9
65	Fontan with lateral tunnel is associated with improved survival compared with extracardiac conduit. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2020 , 159, 1480-1491.e2	1.5	9
64	Letter by McCully et al Regarding Article, "Mitochondria Do Not Survive Calcium Overload". <i>Circulation Research</i> , 2020 , 126, e56-e57	15.7	9
63	Revisiting prosthesis choice in mitral valve replacement in children: Durable alternatives to traditional bioprostheses. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2020 ,	1.5	9
62	Mechanical Properties of Autologous Pericardium Change With Fixation Time: Implications for Valve Reconstruction. <i>Seminars in Thoracic and Cardiovascular Surgery</i> , 2019 , 31, 852-854	1.7	8
61	An anticoagulation protocol for use after congenital cardiac surgery. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2018 , 156, 343-352.e4	1.5	8
60	Relationship of Red Cell Distribution Width to Adverse Outcomes in Adults With Congenital Heart Disease (from the Boston Adult Congenital Heart Biobank). <i>American Journal of Cardiology</i> , 2018 , 122, 1557-1564	3	8
59	High-dose heparin is associated with higher bleeding and thrombosis rates in pediatric patients following cardiac surgery. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2019 , 158, 1199-1206	1.5	7
58	Long-term results of atrial maze surgery in patients with congenital heart disease. <i>Europace</i> , 2019 , 21, 1345-1352	3.9	7
57	Pediatric cardiovascular grafts: historical perspective and future directions. <i>Current Opinion in Biotechnology</i> , 2016 , 40, 119-124	11.4	7
56	Utility of a standardized postcardiopulmonary bypass epicardial echocardiography protocol for stage I Norwood palliation. <i>Congenital Heart Disease</i> , 2017 , 12, 350-356	3.1	6
55	Flow disturbances and progression of endocardial fibroelastosis - a case report. <i>Cardiovascular Pathology</i> , 2019 , 42, 1-3	3.8	6
54	A method to account for variation in congenital heart surgery charges. <i>Annals of Thoracic Surgery</i> , 2015 , 99, 939-46	2.7	6
53	Development of a bio-MEMS device for electrical and mechanical conditioning and characterization of cell sheets for myocardial repair. <i>Biotechnology and Bioengineering</i> , 2019 , 116, 3098-3111	4.9	6
52	Transcatheter balloon dilation for recurrent right ventricular outflow tract obstruction following valve-sparing repair of tetralogy of Fallot. <i>Catheterization and Cardiovascular Interventions</i> , 2015 , 86, 692-700	2.7	6
51	Neonatal Mitral Valve Repair in Biventricular Repair, Single Ventricle Palliation, and Secondary Left Ventricular Recruitment: Indications, Techniques, and Mid-Term Outcomes. <i>Frontiers in Surgery</i> , 2015 , 2, 59	2.3	6
50	Changes in Prognosis of Heterotaxy Syndrome Over Time. <i>Pediatrics</i> , 2020 , 146,	7.4	6

49	Restriction of Atrial Septal Defect Leads to Growth of Hypoplastic Ventricle in Patients with Borderline Right or Left Heart. <i>Seminars in Thoracic and Cardiovascular Surgery</i> , 2021 ,	1.7	6
48	Operations for improving left ventricular diastolic function. <i>Current Opinion in Cardiology</i> , 2016 , 31, 101-8.1		6
47	Long-term outcomes of truncus arteriosus repair: A modulated renewal competing risks analysis. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2021 ,	1.5	6
46	Biventricular Repair in Patients With Borderline Left Heart-The "Growing" Experience. <i>World Journal for Pediatric & Congenital Heart Surgery</i> , 2019 , 10, 18-19	1.1	5
45	Three-Dimensional Modeling of Surgically Implanted Stent-Based Valves in the Mitral Position in Children. <i>Annals of Thoracic Surgery</i> , 2020 , 110, 670-675	2.7	5
44	Left Main Coronary Artery Atresia in an Infant With Inclusion-Cell Disease. <i>World Journal for Pediatric & Congenital Heart Surgery</i> , 2018 , 9, 246-250	1.1	5
43	Intravenous GPIIb/IIIa Inhibitor for Secondary Prevention of Shunt Thrombosis in a Pediatric Patient. <i>Annals of Thoracic Surgery</i> , 2015 , 99, e151-3	2.7	5
42	Rare case of undiagnosed supracardiac total anomalous pulmonary venous return in an adult. <i>Circulation</i> , 2014 , 130, 1205-7	16.7	5
41	Expandable Valves, Annuloplasty Rings, Shunts, and Bands for Growing Children. <i>Pediatric Cardiac Surgery Annual</i> , 2020 , 23, 17-23	2.1	4
40	Enzymatic Functional Assays of Coagulation Using Small Sample Volumes. <i>Laboratory Medicine</i> , 2017 , 49, 47-54	1.6	4
39	Pulmonary atresia with ventricular septal defect and major aortopulmonary collaterals: collateral vessel disease burden and unifocalisation strategies. <i>Cardiology in the Young</i> , 2018 , 28, 1091-1098	1	4
38	Plasma and Platelet Transfusions Strategies in Neonates and Children Undergoing Cardiac Surgery With Cardiopulmonary Bypass or Neonates and Children Supported by Extracorporeal Membrane Oxygenation: From the Transfusion and Anemia EXPertise Initiative-Control/Avoidance of Bleeding. <i>Critical Care Medicine</i> , 2020 , 48, 25-31	3	4
37	Intubation precautions in a pediatric patient with severe COVID-19. <i>Journal of Pediatric Surgery Case Reports</i> , 2020 , 58, 101495	0.3	4
36	Super Glenn for staged biventricular repair: impact on left ventricular growth?. <i>European Journal of Cardio-thoracic Surgery</i> , 2021 , 60, 534-541	3	4
35	Biventricular conversion after Fontan completion: A preliminary experience. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2021 ,	1.5	4
34	Pathology of valved venous homografts used as right ventricle-to-pulmonary artery conduits in congenital heart disease surgery. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2019 , 157, 342-350.e3	1.5	4
33	Do patients with anomalous origin of the left coronary artery benefit from an early repair of the mitral valve?. <i>European Journal of Cardio-thoracic Surgery</i> , 2020 , 57, 72-77	3	4
32	Novel Coagulation Analyzers in Development: A Glimpse toward the Future of Microfluidics. <i>Seminars in Thrombosis and Hemostasis</i> , 2019 , 45, 302-307	5.3	3

31	Echocardiographic characteristics of annulo-leaflet mitral ring. <i>Journal of the American Society of Echocardiography</i> , 2015 , 28, 541-8	5.8	3
30	Platelet Inhibition With IV Glycoprotein IIb/IIIa Inhibitor to Prevent Thrombosis in Pediatric Patients Undergoing Aortopulmonary Shunting. <i>Pediatric Critical Care Medicine</i> , 2020 , 21, e354-e361	3	3
29	Preoperative Thromboelastographic Profile of Patients with Congenital Heart Disease: Association of Hypercoagulability and Decreased Heparin Response. <i>Journal of Cardiothoracic and Vascular Anesthesia</i> , 2018 , 32, 1657-1663	2.1	3
28	Expandable Valve for Pediatric Application Constructed From Human Venous Valved Conduit Within a Stent. <i>Annals of Thoracic Surgery</i> , 2015 , 100, 2320-4	2.7	3
27	Thromboelastography During Rewarming for Management of Pediatric Cardiac Surgery Patients. <i>Annals of Thoracic Surgery</i> , 2021 ,	2.7	3
26	Stratification of Bleeding Risk Using Thromboelastography in Children on Extracorporeal Membrane Oxygenation Support. <i>Pediatric Critical Care Medicine</i> , 2021 , 22, 241-250	3	3
25	Intraoperative Coronary Artery Imaging for Planning. <i>Pediatric Cardiac Surgery Annual</i> , 2020 , 23, 11-16	2.1	2
24	The Association of Age and Repair Modification with Outcome after Cone Repair for Ebstein's Malformation. <i>Seminars in Thoracic and Cardiovascular Surgery</i> , 2021 ,	1.7	2
23	Management of Congenitally Corrected Transposition of the Great Arteries With Intact Ventricular Septum: Anatomic Repair or Palliative Treatment?. <i>Circulation: Cardiovascular Interventions</i> , 2021 , 14, e010154	6	2
22	Experience and Outcomes of Surgically Implanted Melody Valve in the Pulmonary Position. <i>Annals of Thoracic Surgery</i> , 2021 , 111, 966-972	2.7	2
21	Left Ventricular Recruitment in Patients With Hypoplastic Left Heart Syndrome. <i>Pediatric Cardiac Surgery Annual</i> , 2021 , 24, 30-36	2.1	2
20	Lessons learned from Melody valve retrieved at transplantation. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2019 , 158, e74-e75	1.5	1
19	Magnetic Resonance-Based Diagnostics for Bleeding Assessment in Neonatal Cardiac Surgery. <i>Annals of Thoracic Surgery</i> , 2020 , 109, 1931-1936	2.7	1
18	Valve-sparing repair in tetralogy of Fallot: Does valve biology determine long-term outcome?. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2018 , 156, 782-784	1.5	1
17	Transition from Hemochron Response to Hemochron Signature Elite Activated Clotting Time Devices in a Congenital Cardiac Surgery Practice. <i>Journal of Extra-Corporeal Technology</i> , 2019 , 51, 221-226	0.4	1
16	Comparison of outcomes following thoracoscopic versus thoracotomy closure for persistent patent ductus arteriosus. <i>Cardiology in the Young</i> , 2020 , 30, 1433-1438	1	1
15	Direct heart shunt placement for CSF diversion: technical note. <i>Journal of Neurosurgery: Pediatrics</i> , 2016 , 25, 663-666	2.1	1
14	Human endothelial colony-forming cells provide trophic support for pluripotent stem cell-derived cardiomyocytes via distinctively high expression of neuregulin-1. <i>Angiogenesis</i> , 2021 , 24, 327-344	10.6	1

13	Flow Preservation of Umbilical Vein for Autologous Shunt and Cardiovascular Reconstruction. <i>Annals of Thoracic Surgery</i> , 2018 , 105, 1809-1818	2.7	0
12	Intraoperative conduction mapping in complex congenital heart surgery.. <i>JTCVS Techniques</i> , 2022 , 12, 159-163	0.2	0
11	Reply: There is no "one-size-fits-all" in Fontan surgery!. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2020 , 160, e10	1.5	0
10	Native Bicuspid Pulmonary Valve in D-Loop Transposition of the Great Arteries: Outcomes of the Neo-Aortic Valve Function and Root Dilation After Arterial Switch Operation. <i>Journal of the American Heart Association</i> , 2021 , 10, e021599	6	0
9	Clinical implications of acute shunt thrombosis in paediatric patients with systemic-to-pulmonary shunt re-interventions. <i>Cardiology in the Young</i> , 1-7	1	0
8	Invited Commentary. <i>Annals of Thoracic Surgery</i> , 2015 , 99, 2164-5	2.7	
7	A Multi-Mode System for Myocardial Functional and Physiological Assessment during Ex Situ Heart Perfusion. <i>Journal of Extra-Corporeal Technology</i> , 2020 , 52, 303-313	0.4	
6	Commentary: Tetralogy of Fallot-in pursuit of perfection. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2021 , 162, 1321-1322	1.5	
5	Single Ventricle With Atrioventricular Valve Regurgitation-Ongoing Challenges. <i>Annals of Thoracic Surgery</i> , 2021 , 111, 670-671	2.7	
4	Commentary: Another Way to Avoid the Fontan in Patients With Complex Transposition of the Great Arteries. <i>Seminars in Thoracic and Cardiovascular Surgery</i> , 2021 , 33, 182-183	1.7	
3	Commentary: In pursuit of a pediatric heart valve that can grow with the child. <i>JTCVS Techniques</i> , 2021 , 5, 87-88	0.2	
2	Reply to Buratto et al. <i>European Journal of Cardio-thoracic Surgery</i> , 2018 , 53, 1296	3	
1	Commentary: Indocyanine green: The Green Lantern of congenital heart surgery?. <i>JTCVS Techniques</i> , 2021 , 8, 158-159	0.2	