Giovanni Battista Luciani

List of Publications by Year
in descending order

121	1,460	394421 19	414414 32
papers	citations	h-index	g-index

127	127	127	1622
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Comparative Finite Element Model Analysis of Ascending Aortic Flow in Bicuspid and Tricuspid Aortic Valve. Artificial Organs, 2010, 34, 1114-1120.	1.9	78
2	Under-use of the Ross operationâ€"a lost opportunity. Lancet, The, 2014, 384, 559-560.	13.7	65
3	Ross Operation in the Young: A Ten-Year Experience. Annals of Thoracic Surgery, 2005, 80, 2271-2277.	1.3	62
4	Fate of the Aortic Root Late After Ross Operation. Circulation, 2003, 108, 61II–67.	1.6	60
5	Two decades of experience with the Ross operation in neonates, infants and children from the Italian Paediatric Ross Registry. Heart, 2014, 100, 1954-1959.	2.9	58
6	Influence of Bicuspid Valve Geometry on Ascending Aortic Fluid Dynamics: A Parametric Study. Artificial Organs, 2012, 36, 368-378.	1.9	53
7	Helical flows and asymmetry of blood jet in dilated ascending aorta with normally functioning bicuspid valve. Biomechanics and Modeling in Mechanobiology, 2013, 12, 801-813.	2.8	52
8	Levosimendan is superior to epinephrine in improving myocardial function after cardiopulmonary bypass with deep hypothermic circulatory arrest in rats. Journal of Thoracic and Cardiovascular Surgery, 2012, 143, 209-214.	0.8	50
9	Surgical repair of transposition of the great arteries in neonates with persistent pulmonary hypertension. Annals of Thoracic Surgery, 1996, 61, 800-805.	1.3	49
10	Survival after stentless and stented xenograft aortic valve replacement: a concurrent, controlled trial. Annals of Thoracic Surgery, 2002, 74, 1443-1449.	1.3	46
11	European multicenter experience with valve-sparing reoperations after the Ross procedure. Journal of Thoracic and Cardiovascular Surgery, 2015, 150, 1132-1137.	0.8	42
12	Reparative surgery of the pulmonary autograft: experience with Ross reoperations. European Journal of Cardio-thoracic Surgery, 2012, 41, 1309-1315.	1.4	33
13	Sphingosine 1-Phosphate Receptor Modulator Fingolimod (FTY720) Attenuates Myocardial Fibrosis in Post-heterotopic Heart Transplantation. Frontiers in Pharmacology, 2017, 8, 645.	3.5	33
14	Diagnosis of infection in paediatric veno-arterial cardiac extracorporeal membrane oxygenation: role of procalcitonin and C-reactive protein. European Journal of Cardio-thoracic Surgery, 2013, 43, 1043-1049.	1.4	28
15	Characterization and Expression of Sphingosine 1-Phosphate Receptors in Human and Rat Heart. Frontiers in Pharmacology, 2017, 8, 312.	3.5	28
16	The Rossâ€"Yacoub procedure for aneurysmal autograft roots: A strategy to preserve autologous pulmonary valves. Journal of Thoracic and Cardiovascular Surgery, 2010, 139, 536-542.	0.8	27
17	Aortic root disease after the Ross procedure. Current Opinion in Cardiology, 2006, 21, 555-560.	1.8	23
18	Repair of quadricuspid aortic valve by bicuspidization: a novel technique. Interactive Cardiovascular and Thoracic Surgery, 2010, 11, 348-350.	1.1	22

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19	Blood versus crystalloid cardioplegia for myocardial protection of donor hearts during transplantation: A prospective, randomized clinical trial. Journal of Thoracic and Cardiovascular Surgery, 1999, 118, 787-795.	0.8	20
20	Validation of a Rat Model of Cardiopulmonary Bypass With a New Miniaturized Hollow Fiber Oxygenator. ASAIO Journal, 2008, 54, 514-518.	1.6	19
21	Selective Cerebro-Myocardial Perfusion in Complex Congenital Aortic Arch Pathology: A Novel Technique. Artificial Organs, 2011, 35, 1029-1035.	1.9	19
22	Influence of the aortic valve leaflets on the fluid-dynamics in aorta in presence of a normally functioning bicuspid valve. Biomechanics and Modeling in Mechanobiology, 2015, 14, 1349-1361.	2.8	19
23	Accuracy of Micro-Computed Tomography in Post-mortem Evaluation of Fetal Congenital Heart Disease. Comparison Between Post-mortem Micro-CT and Conventional Autopsy.. Frontiers in Pediatrics, 2019, 7, 92.	1.9	18
24	Three-Dimensional Printing of Fetal Models of Congenital Heart Disease Derived From Microfocus Computed Tomography: A Case Series. Frontiers in Pediatrics, 2019, 7, 567.	1.9	18
25	Valve-sparing root replacement for pulmonary autograft dissection late after the Ross operation. Journal of Thoracic and Cardiovascular Surgery, 2004, 128, 753-756.	0.8	17
26	Improved Outcome of Cardiac Extracorporeal Membrane Oxygenation in Infants and Children Using Magnetic Levitation Centrifugal Pumps. Artificial Organs, 2016, 40, 27-33.	1.9	17
27	Basophil Blood Cell Count Is Associated With Enhanced Factor II Plasma Coagulant Activity and Increased Risk of Mortality in Patients With Stable Coronary Artery Disease: Not Only Neutrophils as Prognostic Marker in Ischemic Heart Disease. Journal of the American Heart Association, 2021, 10, e018243.	3.7	17
28	Age at Repair Affects the Very Long-Term Outcome of Sinus Venosus Defect. Annals of Thoracic Surgery, 2008, 86, 153-159.	1.3	16
29	Rescue Extracorporeal Life Support for Acute Verapamil and Propranolol Toxicity in a Neonate. Artificial Organs, 2011, 35, 416-420.	1.9	16
30	Reoperations for aortic aneurysm after the Ross procedure. Journal of Heart Valve Disease, 2005, 14, 766-72; discussion 772-3.	0.5	15
31	S-nitroso human serum albumin attenuates pulmonary hypertension, improves right ventricularâ€“arterial coupling, and reduces oxidative stress in a chronic right ventricle volume overload model. Journal of Heart and Lung Transplantation, 2015, 34, 479-488.	0.6	14
32	Increased plasma thrombin potential is associated with stable coronary artery disease: An angiographically-controlled study. Thrombosis Research, 2017, 155, 16-22.	1.7	14
33	Maladaptive remodeling of pulmonary artery root autografts after Ross procedure: A proteomic study. Journal of Thoracic and Cardiovascular Surgery, 2020, 159, 621-632.e3.	0.8	14
34	Role of calcium desensitization in the treatment of myocardial dysfunction after deep hypothermic circulatory arrest. Critical Care, 2013, 17, R245.	5.8	13
35	Temperature Variation After Rewarming from Deep Hypothermic Circulatory Arrest Is Associated with Survival and Neurologic Outcome. Therapeutic Hypothermia and Temperature Management, 2017, 7, 101-106.	0.9	13
36	Autografts, homografts, and xenografts: overview on stentless aortic valve surgery. Journal of Cardiovascular Medicine, 2007, 8, 91-96.	1.5	12

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37	Selective Cerebroâ€Myocardial Perfusion in Complex Neonatal Aortic Arch Pathology: Midterm Results. Artificial Organs, 2018, 42, 457-463.	1.9	12
38	Selective versus standard cerebroâ€myocardial perfusion in neonates undergoing aortic arch repair: A multiâ€center study. Artificial Organs, 2019, 43, 728-735.	1.9	12
39	Impact of the coronavirus disease 2019 (COVID-19) pandemic on the Italian congenital cardiac surgery system: a national survey. European Journal of Cardio-thoracic Surgery, 2020, 58, 1254-1260.	1.4	12
40	Tricuspid Valve Repair in an Infant With Multiple Obstructive Candida Mycetomas. Annals of Thoracic Surgery, 2005, 80, 2378-2381.	1.3	11
41	An alternative method for neonatal cerebro-myocardial perfusion. Interactive Cardiovascular and Thoracic Surgery, 2012, 14, 645-647.	1.1	11
42	Ventricular and pulmonary vascular remodeling induced by pulmonary overflow in a chronic model of pretricuspid shunt. Journal of Thoracic and Cardiovascular Surgery, 2014, 148, 2609-2617.	0.8	11
43	Mass-spring models for the simulation of mitral valve function: Looking for a trade-off between reliability and time-efficiency. Medical Engineering and Physics, 2017, 47, 93-104.	1.7	11
44	Cardioplegia between Evolution and Revolution: From Depolarized to Polarized Cardiac Arrest in Adult Cardiac Surgery. Journal of Clinical Medicine, 2021, 10, 4485.	2.4	11
45	Myocardial protection in heart transplantation using blood cardioplegia: 12-year outcome of a prospective randomized trial. Journal of Heart and Lung Transplantation, 2011, 30, 29-36.	0.6	10
46	Slow versus fast rewarming after hypothermic circulatory arrest: effects on neuroinflammation and cerebral oedema. European Journal of Cardio-thoracic Surgery, 2020, 58, 792-800.	1.4	10
47	Artificial Intelligence Supports Decision Making during Open-Chest Surgery of Rare Congenital Heart Defects. Journal of Clinical Medicine, 2021, 10, 5330.	2.4	10
48	Operative Risk and Outcome of Surgery in Adults With Congenital Valve Disease. ASAIO Journal, 2008, 54, 458-462.	1.6	9
49	Repair of Congenitally Dysplastic Aortic Valve by Bicuspidization: Midterm Results. Annals of Thoracic Surgery, 2012, 94, 1173-1179.	1.3	9
50	Chronic overcirculation-induced pulmonary arterial hypertension in aorto-caval shunt. Microvascular Research, 2014, 94, 73-79.	2.5	9
51	Aortic and Mitral Valve Involvement in Maroteaux-Lamy Syndrome VI: Surgical Implications in the Enzyme Replacement Therapy Era. Annals of Thoracic Surgery, 2016, 102, e23-e25.	1.3	9
52	Continuous Metabolic Monitoring in Infant Cardiac Surgery: Toward an Individualized Cardiopulmonary Bypass Strategy. Artificial Organs, 2016, 40, 65-72.	1.9	9
53	Stentless aortic valve replacement: current status and future trends. Expert Review of Cardiovascular Therapy, 2004, 2, 127-140.	1.5	8
54	MicroRNA-208a: a Good Diagnostic Marker and a Predictor of no-Reflow in STEMI Patients Undergoing Primary Percutaneuos Coronary Intervention. Journal of Cardiovascular Translational Research, 2020, 13, 988-995.	2.4	8

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55	Long-Term Follow-Up Study of Temporary Tricuspid Valve Detachment as Approach to VSD Repair without Consequent Tricuspid Dysfunction. Texas Heart Institute Journal, 2016, 43, 392-396.	0.3	8
56	Repair of anomalous right and circumflex coronary arteries arising from the pulmonary artery. Journal of Thoracic and Cardiovascular Surgery, 2006, 132, 970-972.	0.8	7
57	Resilience and response of the congenital cardiac network in Italy during the COVID-19 pandemic. Journal of Cardiovascular Medicine, 2021, 22, 9-13.	1.5	7
58	Enhanced 3D visualization for planning biventricular repair of double outlet right ventricle: a pilot study on the advantages of virtual reality. European Heart Journal Digital Health, 2021, 2, 667-675.	1.7	7
59	Cardioplegia and Angiotensin II Receptor Antagonists Modulate Signal Transducers and Activators of Transcription Activation in Neonatal Rat Myocytes. Artificial Organs, 2011, 35, 1075-1081.	1.9	6
60	Current management of double-outlet left ventricle. Journal of Cardiovascular Medicine, 2017, 18, 311-317.	1.5	6
61	In-situ optical assessment of rat epicardial kinematic parameters reveals frequency-dependent mechanic heterogeneity related to gender. Progress in Biophysics and Molecular Biology, 2020, 154, 94-101.	2.9	6
62	Valve Surgery in Congenital Heart Disease. Artificial Organs, 2009, 33, 1021-1026.	1.9	5
63	LVAD in situs viscerum inversus totalis. Journal of Heart and Lung Transplantation, 2011, 30, 1420-1421.	0.6	5
64	Comparison Between D901 Lilliput 1 and Kids D100 Neonatal Oxygenators: Toward Bypass Circuit Miniaturization. Artificial Organs, 2013, 37, E24-E28.	1.9	5
65	Takayasu Arteritis Mimicking Type A Intramural Hematoma. Annals of Thoracic Surgery, 2017, 104, e35-e37.	1.3	5
66	Real-time video kinematic evaluation of the in situ beating right ventricle after pulmonary valve replacement in patients with tetralogy of Fallot: a pilot study. Interactive Cardiovascular and Thoracic Surgery, 2019, 29, 625-631.	1.1	5
67	Fingolimod Plays Role in Attenuation of Myocardial Injury Related to Experimental Model of Cardiac Arrest and Extracorporeal Life Support Resuscitation. International Journal of Molecular Sciences, 2019, 20, 6237.	4.1	5
68	Right ventricular functional recovery depends on timing of pulmonary valve replacement in tetralogy of Fallot: a video kinematic study. European Journal of Cardio-thoracic Surgery, 2021, 59, 1329-1336.	1.4	5
69	Detection of Periodontal Pathogens in Oral Samples and Cardiac Specimens in Patients Undergoing Aortic Valve Replacement: A Pilot Study. Journal of Clinical Medicine, 2021, 10, 3874.	2.4	5
70	Seven-Year Performance of the Edwards Prima Plus Stentless Valve with the Intact Non-Coronary Sinus Technique. Journal of Cardiac Surgery, 2008, 23, 221-226.	0.7	4
71	Cardiac resynchronization therapy or sequential pacing in failing Mustard?. Journal of Electrocardiology, 2011, 44, 285-288.	0.9	4
72	Outcomes of the 10th <scp>I</scp>nternational <scp>C</scp>onference on Pediatric Mechanical Circulatory Support Systems and Pediatric Cardiopulmonary Perfusion. Artificial Organs, 2015, 39, 1-6.	1.9	4

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73	Quadricuspid mitral valve: Of clefts, scallops, and indentations. Journal of Thoracic and Cardiovascular Surgery, 2016, 152, e51-e53.	0.8	4
74	The determinants of functional capacity in left ventricular assist device patients: many actors with not well defined roles. Journal of Cardiovascular Medicine, 2020, 21, 472-480.	1.5	4
75	Effects of echoâ€optimization of left ventricular assist devices on functional capacity, a randomized controlled trial. ESC Heart Failure, 2021, 8, 2846-2855.	3.1	4
76	Minimal-access median sternotomy for aortic valve replacement. Journal of Thoracic Disease, 2013, 5 Suppl 6, S650-3.	1.4	4
77	Aortic Root Physiology Late After a â€œPerfectâ€•Ross Operation: Magnetic Resonance Imaging Study of Three Operative Techniques. Artificial Organs, 2011, 35, 1142-1150.	1.9	3
78	Effects of Angiotensin II Type 1 Receptor Antagonist and Temperature on Prolonged Cardioplegic Arrest in Neonatal Rat Myocytes. Artificial Organs, 2013, 37, 689-694.	1.9	3
79	Pediatric Veno-Arterial Extracorporeal Membrane Oxygenation in Fulminant Hemophagocytic Lymphohistiocytosis. Artificial Organs, 2013, 37, 671-673.	1.9	3
80	Perfusion strategies for aortic arch surgery: trends and evidence. European Journal of Cardio-thoracic Surgery, 2015, 47, 924-925.	1.4	3
81	Italian survey on cardiac surgery for adults with congenital heart disease: which surgery, where and by whom?. Interactive Cardiovascular and Thoracic Surgery, 2019, 29, 260-265.	1.1	3
82	Scalloped Freehand Pulmonary Homograft for Prosthetic Tricuspid Valve Replacement. Annals of Thoracic Surgery, 2021, 112, e61-e64.	1.3	3
83	Wave Reflection and Ventriculo-Arterial Coupling in Bicuspid Aortic Valve Patients With Repaired Aortic Coarctation. Frontiers in Pediatrics, 2021, 9, 770754.	1.9	3
84	Cryopreserved aortic homografts for complex aortic valve or root endocarditis: a 28-year experience. European Journal of Cardio-thoracic Surgery, 2022, , .	1.4	3
85	Neonatal Repair of Truncus Arteriosus With â€œScimitar-Likeâ€•Mixed Total Pulmonary Venous Return. Annals of Thoracic Surgery, 2014, 97, e167-e169.	1.3	2
86	Repair of acute type A aortic dissection in comatose patients. European Journal of Cardio-thoracic Surgery, 2015, 48, 951-952.	1.4	2
87	PP-158 Coronary Sinus Can Be Target for Permanent Atrial Fibrillation Ablation Therapy?. American Journal of Cardiology, 2016, 117, S98.	1.6	2
88	Twenty-Year Outcome After Right Ventricular Outflow Tract Repair Using Heterotopic Pulmonary Conduits in Infants and Children. Artificial Organs, 2016, 40, 50-55.	1.9	2
89	Blood transfusions may impair endothelium-dependent vasodilatation during coronary artery bypass surgery. Microvascular Research, 2017, 112, 109-114.	2.5	2
90	Mesothelial/monocytic incidental cardiac excrescence in autoimmune disease. Journal of Cardiac Surgery, 2020, 35, 679-682.	0.7	2

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91	Late Aortic Valve Rupture After Blunt Chest Trauma. Heart Lung and Circulation, 2020, 29, e279-e280.	0.4	2
92	Transcatheter Valve-in-Mitral Homograft in Tricuspid Position: First-in-Human Report. Canadian Journal of Cardiology, 2020, 36, 1690.e9-1690.e11.	1.7	2
93	Impact of COVID-19 Pandemic on the Italian Humanitarian Congenital Cardiac Surgery Activity: What No One Tells You. Frontiers in Cardiovascular Medicine, 2021, 8, 705029.	2.4	2
94	Long-term Outcomes of the Ross Procedure for Young Patients with Aortic Valve Disease. Seminars in Thoracic and Cardiovascular Surgery, 2022, , .	0.6	2
95	Modified Ultrafiltration Reduces Morbidity After Adult Cardiac Operations. Circulation, 2001, 104, .	1.6	1
96	Pericardial defects and traumatic tricuspid valve rupture: A serendipitous association?. Journal of Thoracic and Cardiovascular Surgery, 2010, 139, e142-e144.	0.8	1
97	Invited Commentary. Annals of Thoracic Surgery, 2014, 97, 181.	1.3	1
98	Impact on Renal Function and Hospital Outcomes of an Individualized Management of Cardiopulmonary Bypass in Congenital Heart Surgery: A Pilot Study. Pediatric Cardiology, 2021, 42, 1862-1870.	1.3	1
99	Complete surgical resection of giant fibroma of the interventricular septum and left ventricle in an infant. JTCVS Techniques, 2021, 8, 183-187.	0.4	1
100	Unusual â€œSingle Coronaryâ€•Anatomy in Transposition of the Great Arteries. Annals of Thoracic Surgery, 2009, 88, e44.	1.3	0
101	397 Effects of the Calcium Sensitizer Levosimendan on Myocardial Function after Cardiopulmonary Bypass (CPB) with Deep Hypothermic Circulatory Arrest in Rats. Journal of Heart and Lung Transplantation, 2011, 30, S136-S137.	0.6	0
102	Two Cases of Double-Outlet Left Ventricle Detected Prenatally. World Journal for Pediatric & Congenital Heart Surgery, 2011, 2, 505-508.	0.8	0
103	Hot-Air Balloon Explosion in the Heart. Circulation, 2012, 126, 612-614.	1.6	0
104	Reply to Ji and Associates. Artificial Organs, 2012, 36, 325-325.	1.9	0
105	The role of LV in the autograft complication after ROSS operation. Heart, 2014, 100, 1987.2-1988.	2.9	0
106	Late Endovascular Pulmonary Artery Band Migration. Annals of Thoracic Surgery, 2016, 101, 355-357.	1.3	0
107	Autologous Transfusion of Stored Red Blood Cells Impairs Endothelium-Dependent Vasodilatation in Experimental Pulmonary Arterial Hypertension. This Effect Is Reversed by Inhaled Nitric Oxide. Journal of Heart and Lung Transplantation, 2016, 35, S362.	0.6	0
108	The Ross procedure in the young: evidence from multicentre registries. European Journal of Cardio-thoracic Surgery, 2016, 49, 218-219.	1.4	0

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109	233â€…Anti-arrhythmic role of sphingosine 1-phospahte in post-operative atrial fibrillation by pak1 activation. Heart, 2017, 103, A149.2-A150.	2.9	0
110	Integrated Echocardiographic Imaging of Giant Atrial Myxoma. Journal of Cardiovascular Diseases & Diagnosis, 2017, 05, .	0.0	0
111	Management of type Ia endoleak: Back to the future?. Journal of Thoracic and Cardiovascular Surgery, 2018, 155, 1397-1398.	0.8	0
112	Residual pulmonary hypertension after pulmonary endarterectomy: What is there more than meets the eye?. Journal of Thoracic and Cardiovascular Surgery, 2018, 156, 1288-1289.	0.8	0
113	Intolerably high risk in ascending aortic surgery. Journal of Thoracic and Cardiovascular Surgery, 2018, 156, e187-e188.	0.8	0
114	Sphingosine-1-Phosphate Receptor Agonist Fingolimod Reduces Myocardial Ischemia-Reperfusion Injury and Apoptosis Increasing Long-Term Left Ventricular Function after Heart Transplantation. Journal of Heart and Lung Transplantation, 2019, 38, S223.	0.6	0
115	Bicuspid aortic valve disease from infancy to older age: A 25-year experience from an Italian referral center. Journal of Cardiovascular Echography, 2021, 31, 29.	0.4	0
116	Commentary: Lights and shadows of pediatric cardiac surgery in China during the coronavirus disease 2019 pandemic. Journal of Thoracic and Cardiovascular Surgery, 2021, 161, 1616-1617.	0.8	0
117	Cor triatriatum and intracardiac anomalous pulmonary venous return: an inborn atrial flow inversion. Annals of Thoracic Surgery, 2021, , .	1.3	0
118	Clinical Outcome of Benign Cardiac Tumors in Infants During A 13 Yearsâ€™ Experience: Impact of Prenatal Diagnosis. Biomedical Journal of Scientific & Technical Research, 2018, 7, .	0.1	0
119	OC18 CURRENT OUTCOME OF VENO-ARTERIAL EXTRACORPOREAL MEMBRANE OXYGENTATION IN NEONATES AND INFANTS USING MAGNETIC LEVITATION CENTRIFUGAL PUMPS. Journal of Cardiovascular Medicine, 2018, 19, e8.	1.5	0
120	Infectious aortitis or acute aortic syndrome-that is the question. Annals of Translational Medicine, 2016, 4, 19.	1.7	0
121	The question of preference for Ross operation in adolescents. Anatolian Journal of Cardiology, 2007, 7, 199.	0.4	0