

# Laura J Olivieri

## List of Publications by Year in descending order

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Version: 2024-02-01

83  
papers

1,956  
citations

361413

20  
h-index

276875

41  
g-index

88  
all docs

88  
docs citations

88  
times ranked

2249  
citing authors

#	ARTICLE	IF	CITATIONS
1	Incorporating Three-dimensional Printing into a Simulation-based Congenital Heart Disease and Critical Care Training Curriculum for Resident Physicians. <i>Congenital Heart Disease</i> , 2015, 10, 185-190.	0.2	179
2	Three-Dimensional Printing of Intracardiac Defects from Three-Dimensional Echocardiographic Images: Feasibility and Relative Accuracy. <i>Journal of the American Society of Echocardiography</i> , 2015, 28, 392-397.	2.8	164
3	Utilizing Three-Dimensional Printing Technology to Assess the Feasibility of High-Fidelity Synthetic Ventricular Septal Defect Models for Simulation in Medical Education. <i>World Journal for Pediatric &amp; Congenital Heart Surgery</i> , 2014, 5, 421-426.	0.8	144
4	Usage of 3D models of tetralogy of Fallot for medical education: impact on learning congenital heart disease. <i>BMC Medical Education</i> , 2017, 17, 54.	2.4	134
5	3D heart model guides complex stent angioplasty of pulmonary venous baffle obstruction in a Mustard repair of D-TGA. <i>International Journal of Cardiology</i> , 2014, 172, e297-e298.	1.7	83
6	Bicuspid aortic valve and aortic coarctation are linked to deletion of the X chromosome short arm in Turner syndrome. <i>Journal of Medical Genetics</i> , 2013, 50, 662-665.	3.2	78
7	“Just-In-Time” Simulation Training Using 3-D Printed Cardiac Models After Congenital Cardiac Surgery. <i>World Journal for Pediatric &amp; Congenital Heart Surgery</i> , 2016, 7, 164-168.	0.8	77
8	Coronary Artery Z Score Regression Equations and Calculators Derived From a Large Heterogeneous Population of Children Undergoing Echocardiography. <i>Journal of the American Society of Echocardiography</i> , 2009, 22, 159-164.	2.8	75
9	Risk assessment and anesthetic management of patients with Williams syndrome: a comprehensive review. <i>Paediatric Anaesthesia</i> , 2015, 25, 1207-1215.	1.1	64
10	Dark blood late enhancement imaging. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2016, 18, 77.	3.3	64
11	Impact of Three-Dimensional Printing on the Study and Treatment of Congenital Heart Disease. <i>Circulation Research</i> , 2017, 120, 904-907.	4.5	53
12	Native T1 values identify myocardial changes and stratify disease severity in patients with Duchenne muscular dystrophy. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2016, 18, 72.	3.3	51
13	Radiation-free CMR diagnostic heart catheterization in children. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2016, 19, 65.	3.3	45
14	Hemodynamic Modeling of Surgically Repaired Coarctation of the Aorta. <i>Cardiovascular Engineering and Technology</i> , 2011, 2, 288-295.	1.6	44
15	Spectrum of Aortic Valve Abnormalities Associated With Aortic Dilation Across Age Groups in Turner Syndrome. <i>Circulation: Cardiovascular Imaging</i> , 2013, 6, 1018-1023.	2.6	42
16	Virtual surgical planning, flow simulation, and 3-dimensional electrospinning of patient-specific grafts to optimize Fontan hemodynamics. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2018, 155, 1734-1742.	0.8	41
17	Ventricular arrhythmia risk prediction in repaired Tetralogy of Fallot using personalized computational cardiac models. <i>Heart Rhythm</i> , 2020, 17, 408-414.	0.7	35
18	InÂvivo implantation of 3-dimensional printed customized branched tissue engineered vascular graft in a porcine model. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2020, 159, 1971-1981.e1.	0.8	25

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19	Improved workflow for quantification of left ventricular volumes and mass using free-breathing motion corrected cine imaging. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2016, 18, 10.	3.3	24
20	Role of surgeon intuition and computer-aided design in Fontan optimization: A computational fluid dynamics simulation study. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2020, 160, 203-212.e2.	0.8	23
21	Myocardial Strain Using Cardiac MR Feature Tracking and Speckle Tracking Echocardiography in Duchenne Muscular Dystrophy Patients. <i>Pediatric Cardiology</i> , 2018, 39, 478-483.	1.3	22
22	A Novel Virtual Reality Medical Image Display System for Group Discussions of Congenital Heart Disease: Development and Usability Testing. <i>JMIR Cardio</i> , 2020, 4, e20633.	1.7	21
23	Free-breathing motion-corrected late-gadolinium-enhancement imaging improves image quality in children. <i>Pediatric Radiology</i> , 2016, 46, 983-990.	2.0	20
24	The Role of 3-D Heart Models in Planning and Executing Interventional Procedures. <i>Canadian Journal of Cardiology</i> , 2017, 33, 1074-1081.	1.7	20
25	Feasibility of low radiation dose retrospectively-gated cardiac CT for functional analysis in adult congenital heart disease. <i>International Journal of Cardiology</i> , 2017, 228, 180-183.	1.7	19
26	Respiratory variation in peak aortic velocity accurately predicts fluid responsiveness in children undergoing neurosurgery under general anesthesia. <i>Journal of Clinical Monitoring and Computing</i> , 2018, 32, 221-226.	1.6	19
27	Optimized protocols for cardiac magnetic resonance imaging in patients with thoracic metallic implants. <i>Pediatric Radiology</i> , 2015, 45, 1455-1464.	2.0	18
28	Novel, 3D Display of Heart Models in the Postoperative Care Setting Improves CICU Caregiver Confidence. <i>World Journal for Pediatric &amp; Congenital Heart Surgery</i> , 2018, 9, 206-213.	0.8	17
29	Anesthetic considerations for magnetic resonance imaging-guided heart catheterization in pediatric patients: A single institution experience. <i>Paediatric Anaesthesia</i> , 2019, 29, 8-15.	1.1	17
30	Quantitative cardiac magnetic resonance T2 imaging offers ability to non-invasively predict acute allograft rejection in children. <i>Cardiology in the Young</i> , 2020, 30, 852-859.	0.8	16
31	Novel Uses for Three-Dimensional Printing in Congenital Heart Disease. <i>Current Pediatrics Reports</i> , 2016, 4, 28-34.	4.0	15
32	Acute Cardiac MRI Assessment of Radiofrequency Ablation Lesions for Pediatric Ventricular Arrhythmia: Feasibility and Clinical Correlation. <i>Journal of Cardiovascular Electrophysiology</i> , 2017, 28, 517-522.	1.7	14
33	Virtual Surgery for Conduit Reconstruction of the Right Ventricular Outflow Tract. <i>World Journal for Pediatric &amp; Congenital Heart Surgery</i> , 2017, 8, 391-393.	0.8	14
34	Troponin I Levels Correlate with Cardiac MR LGE and Native T1 Values in Duchenne Muscular Dystrophy Cardiomyopathy and Identify Early Disease Progression. <i>Pediatric Cardiology</i> , 2020, 41, 1173-1179.	1.3	14
35	Normal right and left ventricular volumes prospectively obtained from cardiovascular magnetic resonance in awake, healthy, 0- 12 year old children. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2020, 22, 11.	3.3	14
36	Cardiac echocardiogram findings of severe acute respiratory syndrome coronavirus-2-associated multi-system inflammatory syndrome in children. <i>Cardiology in the Young</i> , 2021, , 1-9.	0.8	14

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37	Computational Modeling of Right Ventricular Motion and Intracardiac Flow in Repaired Tetralogy of Fallot. <i>Cardiovascular Engineering and Technology</i> , 2022, 13, 41-54.	1.6	13
38	Moving beyond size: vorticity and energy loss are correlated with right ventricular dysfunction and exercise intolerance in repaired Tetralogy of Fallot. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2021, 23, 98.	3.3	13
39	Hypoplastic Left Heart Syndrome With Intact Atrial Septum. <i>Journal of the American College of Cardiology</i> , 2011, 57, e369.	2.8	11
40	White Paper on P4 Concepts for Pediatric Imaging. <i>Journal of the American College of Radiology</i> , 2016, 13, 590-597.e2.	1.8	11
41	Junctional ectopic tachycardia secondary to myocarditis associated with sudden cardiac arrest. <i>HeartRhythm Case Reports</i> , 2017, 3, 124-128.	0.4	10
42	Congenital Aneurysm of the Aortomitral Intervalvular Fibrosa. <i>Annals of Thoracic Surgery</i> , 2015, 99, 314-316.	1.3	9
43	X-ray fused with MRI guidance of pre-selected transcatheter congenital heart disease interventions. <i>Catheterization and Cardiovascular Interventions</i> , 2019, 94, 399-408.	1.7	9
44	Computational Study of Pulmonary Flow Patterns After Repair of Transposition of Great Arteries. <i>Journal of Biomechanical Engineering</i> , 2019, 141, .	1.3	9
45	Automatic Shape Optimization of Patient-Specific Tissue Engineered Vascular Grafts for Aortic Coarctation. , 2020, 2020, 2319-2323.		9
46	Aorta size mismatch predicts decreased exercise capacity in patients with successfully repaired coarctation of the aorta. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2021, 162, 183-192.e2.	0.8	9
47	Semi-Automatic Planning and Three-Dimensional Electrospinning of Patient-Specific Grafts for Fontan Surgery. <i>IEEE Transactions on Biomedical Engineering</i> , 2022, 69, 186-198.	4.2	9
48	Myocardial Parametric Mapping by Cardiac Magnetic Resonance Imaging in Pediatric Cardiology and Congenital Heart Disease. <i>Circulation: Cardiovascular Imaging</i> , 2022, 15, CIRCIMAGING120012242.	2.6	9
49	Dark blood Late Gadolinium Enhancement improves conspicuity of ablation lesions. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2016, 18, P211.	3.3	8
50	Improved Workflow for Quantification of Right Ventricular Volumes Using Free-Breathing Motion Corrected Cine Imaging. <i>Pediatric Cardiology</i> , 2019, 40, 79-88.	1.3	8
51	Abnormal Pulmonary Artery Bending Correlates With Increased Right Ventricular Afterload Following the Arterial Switch Operation. <i>World Journal for Pediatric &amp; Congenital Heart Surgery</i> , 2019, 10, 572-581.	0.8	8
52	Motion-corrected cardiac MRI is associated with decreased anesthesia exposure in children. <i>Pediatric Radiology</i> , 2020, 50, 1709-1716.	2.0	7
53	Society for Cardiovascular Magnetic Resonance 2020 Case of the Week series. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2021, 23, 108.	3.3	7
54	Image Fusion Guided Device Closure of Left Ventricle to Right Atrium Shunt. <i>Circulation</i> , 2015, 132, 1366-1367.	1.6	6

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55	Altered hemodynamics by 4D flow cardiovascular magnetic resonance predict exercise intolerance in repaired coarctation of the aorta: an in vitro study. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2021, 23, 99.	3.3	6
56	Non-invasive Prediction of Peak Systolic Pressure Drop across Coarctation of Aorta using Computational Fluid Dynamics*. , 2020, 2020, 2295-2298.		5
57	Atrial fibrillation detection with a portable device during cardiovascular screening in primary care. <i>Heart</i> , 2020, 106, 1261-1266.	2.9	5
58	Cardiac changes in pediatric cancer survivors. <i>Journal of Investigative Medicine</i> , 2020, 68, 1364-1369.	1.6	5
59	Virtual Cardiac Surgical Planning Through Hemodynamics Simulation and Design Optimization of Fontan Grafts. <i>Lecture Notes in Computer Science</i> , 2019, , 200-208.	1.3	5
60	Method for calculating confidence intervals for phase contrast flow measurements. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2014, 16, 46.	3.3	4
61	Impact of incorporating echocardiographic screening into a clinical prediction model to optimise utilisation of echocardiography in primary care. <i>International Journal of Clinical Practice</i> , 2021, 75, e13686.	1.7	4
62	CorFix: Virtual Reality Cardiac Surgical Planning System for Designing Patient Specific Vascular Grafts. , 2020, , .		4
63	Computational Fontan Analysis: Preserving Accuracy While Expediting Workflow. <i>World Journal for Pediatric &amp; Congenital Heart Surgery</i> , 2022, 13, 293-301.	0.8	4
64	Abnormal Diastolic Hemodynamic Forces: A Link Between Right Ventricular Wall Motion, Intracardiac Flow, and Pulmonary Regurgitation in Repaired Tetralogy of Fallot. <i>Frontiers in Cardiovascular Medicine</i> , 0, 9, .	2.4	4
65	Influence of Fetal Diagnosis on the Clinical Presentation of a Vascular Ring. <i>Pediatric Cardiology</i> , 2012, 33, 351-353.	1.3	3
66	Palliation of Truncus Arteriosus Associated With Complete Atrioventricular Canalâ€”Results of Single Ventricle Palliation. <i>World Journal for Pediatric &amp; Congenital Heart Surgery</i> , 2015, 6, 663-666.	0.8	3
67	Virtual Reality Cardiac Surgical Planning Software (CorFix) for Designing Patient-Specific Vascular Grafts: Development and Pilot Usability Study. <i>JMIR Cardio</i> , 2022, 6, e35488.	1.7	3
68	Ductal constriction during dexamethasone treatment in an anti-SSA-antibody-exposed fetus with signs of myocardial inflammation. <i>Cardiology in the Young</i> , 2016, 26, 1021-1024.	0.8	2
69	Design and Simulation of Patient-Specific Tissue-Engineered Bifurcated Right Ventricle-Pulmonary Artery Grafts using Computational Fluid Dynamics. , 2019, , .		2
70	Validation of cardiac magnetic-resonance-derived left ventricular strain measurements from free-breathing motion-corrected cine imaging. <i>Pediatric Radiology</i> , 2019, 49, 68-75.	2.0	2
71	4-Dimensional Flow by Cardiac Magnetic Resonance Informs Surgical Planning in Partial Anomalous Pulmonary Venous Return. <i>JACC: Case Reports</i> , 2020, 2, 672-677.	0.6	2
72	VALIDATION OF CMR-DERIVED LEFT VENTRICULAR STRAIN MEASUREMENTS BY FREE-BREATHING MOTION-CORRECTED CINE IMAGING. <i>Journal of the American College of Cardiology</i> , 2017, 69, 1448.	2.8	1

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73	3D Modeling as a Medical Education Resource, Simulation, and Communication Tool. , 2020, , 147-154.		1
74	Magnetic Resonance Imagingâ€“Guided Cardiac Catheterization Evacuation Drills. Critical Care Nurse, 2021, 41, e19-e26.	1.0	1
75	Combining patient-specific, digital 3D models with tele-education for adolescents with CHD. Cardiology in the Young, 2021, , 1-6.	0.8	1
76	Acute endocarditis of a percutaneously placed pulmonary valve. Annals of Pediatric Cardiology, 2015, 8, 225.	0.5	1
77	Spontaneous rupture of a coronary artery fistula presenting with post-exertional syncope and haemopericardium. Interactive Cardiovascular and Thoracic Surgery, 2021, 32, 658-660.	1.1	1
78	Right ventricular afterload in repaired D-TGA is associated with inefficient flow patterns, rather than stenosis alone. International Journal of Cardiovascular Imaging, 2021, 38, 653.	1.5	1
79	Abstract 10071: Improved Accuracy of 4D Flow with Ferumoxytol in Comparison to Gadolinium Contrast for Small Children with Congenital Heart Disease. Circulation, 2021, 144, .	1.6	1
80	Aortic tortuosity in Turner syndrome is associated with larger ascending aorta. International Journal of Cardiovascular Imaging, 2022, 38, 2479-2490.	0.6	1
81	Septal Defects. , 2017, , 63-68.		0
82	Abstract 16727: Cardiac Complications of SARS CoV-2 Associated Multi-System Inflammatory Syndrome in Children (mis-c). Circulation, 2020, 142, .	1.6	0
83	Abstract 16754: Novel Characterization of Pulmonary Artery Bending, Rather Than Stenosis, Detects Increased Right Ventricular Afterload and is Associated With Increased Right Ventricular Mass in the Post-Arterial Switch Operation Heart. Circulation, 2020, 142, .	1.6	0