Tarique Hussain

List of Publications by Year
in descending order

58 papers	968 citations	430442 18 h-index	476904 29 g-index
60 all docs	60 docs citations	60 times ranked	1358 citing authors

#	Article	IF	Citations
1	Three-dimensional printed models for surgical planning of complex congenital heart defects: an international multicentre study. European Journal of Cardio-thoracic Surgery, 2017, 52, 1139-1148.	0.6	191
2	Imaging the adult with congenital heart disease: a multimodality imaging approach—position paper from the EACVI. European Heart Journal Cardiovascular Imaging, 2018, 19, 1077-1098.	0.5	71
3	Interventional Correction of Sinus Venosus Atrial Septal Defect and Partial Anomalous Pulmonary Venous Drainage. JACC: Cardiovascular Imaging, 2018, 11, 275-278.	2.3	45
4	Sinus Venosus Defects. JACC: Cardiovascular Imaging, 2019, 12, 921-924.	2.3	37
5	Black–Blood Contrast in Cardiovascular MRI. Journal of Magnetic Resonance Imaging, 2022, 55, 61-80.	1.9	35
6	Magnetic resonance imaging catheter stress haemodynamics post-Fontan in hypoplastic left heart syndrome. European Heart Journal Cardiovascular Imaging, 2016, 17, 644-651.	0.5	34
7	Three-dimensional Dual-Phase Whole-Heart MR Imaging: Clinical Implications for Congenital Heart Disease. Radiology, 2012, 263, 547-554.	3.6	32
8	Invasive cardiovascular magnetic resonance (iCMR) for diagnostic right and left heart catheterization using an MR-conditional guidewire and passive visualization in congenital heart disease. Journal of Cardiovascular Magnetic Resonance, 2020, 22, 20.	1.6	28
9	3D Whole Heart Imaging for Congenital Heart Disease. Frontiers in Pediatrics, 2017, 5, 36.	0.9	27
10	Pressure–volume loop-derived cardiac indices during dobutamine stress: a step towards understanding limitations in cardiac output in children with hypoplastic left heart syndrome. International Journal of Cardiology, 2017, 230, 439-446.	0.8	25
11	Multimodality Noninvasive Imaging in the Monitoring of Pediatric Heart Transplantation. Journal of the American Society of Echocardiography, 2017, 30, 859-870.	1.2	25
12	Virtual reality for preoperative planning in large ventricular septal defects. European Heart Journal, 2019, 40, 1092-1092.	1.0	25
13	Arterial stiffening is a heritable trait associated with arterial dilation but not wall thickening: a longitudinal study in the twins UK cohort. European Heart Journal, 2018, 39, 2282-2288.	1.0	24
14	Living the heart in three dimensions: applications of 3D printing in CHD. Cardiology in the Young, 2019, 29, 733-743.	0.4	24
15	Right ventricular morphology and function following stage I palliation with a modified Blalock–Taussig shunt versus a right ventricle-to-pulmonary artery conduit. European Journal of Cardio-thoracic Surgery, 2017, 51, 50-57.	0.6	22
16	Improved passive catheter tracking with positive contrast for CMR-guided cardiac catheterization using partial saturation (pSAT). Journal of Cardiovascular Magnetic Resonance, 2016, 19, 60.	1.6	22
17	Whole-heart coronary MR angiography using image-based navigation for the detection of coronary anomalies in adult patients with congenital heart disease. Journal of Magnetic Resonance Imaging, 2016, 43, 947-955.	1.9	19
18	Dobutamine stress testing in patients with Fontan circulation augmented by biomechanical modeling. PLoS ONE, 2020, 15, e0229015.	1.1	18

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19	Technical and anatomical factors affecting the size of the branch pulmonary arteries following first-stage Norwood palliation for hypoplastic left heart syndrome. Interactive Cardiovascular and Thoracic Surgery, 2015, 20, 631-635.	0.5	17
20	Use of a semi-automated cardiac segmentation tool improves reproducibility and speed of segmentation of contaminated right heart magnetic resonance angiography. International Journal of Cardiovascular Imaging, 2016, 32, 1273-1279.	0.7	17
21	Ventricular function and vascular dimensions after Norwood and hybrid palliation of hypoplastic left heart syndrome. Heart, 2018, 104, 244-252.	1.2	17
22	MRI for Guided Right and Left Heart Cardiac Catheterization: A Prospective Study in Congenital Heart Disease. Journal of Magnetic Resonance Imaging, 2021, 53, 1446-1457.	1.9	16
23	Monitoring of cardiovascular physiology augmented by a patient-specific biomechanical model during general anesthesia. A proof of concept study. PLoS ONE, 2020, 15, e0232830.	1.1	15
24	Aortic length measurements for pulse wave velocity calculation: manual 2D vs automated 3D centreline extraction. Journal of Cardiovascular Magnetic Resonance, 2016, 19, 32.	1.6	14
25	Automated Quantitative Stress Perfusion Cardiac Magnetic Resonance in Pediatric Patients. Frontiers in Pediatrics, 2021, 9, 699497.	0.9	14
26	Patient-specific modeling of right coronary circulation vulnerability post-liver transplant in Alagille's syndrome. PLoS ONE, 2018, 13, e0205829.	1.1	13
27	Retraining Convolutional Neural Networks for Specialized Cardiovascular Imaging Tasks: Lessons from Tetralogy of Fallot. Pediatric Cardiology, 2021, 42, 578-589.	0.6	13
28	Pediatric heterozygous familial hypercholesterolemia patients have locally increased aortic pulse wave velocity and wall thickness at the aortic root. International Journal of Cardiovascular Imaging, 2019, 35, 1903-1911.	0.7	12
29	A clinical combined gadobutrol bolus and slow infusion protocol enabling angiography, inversion recovery whole heart, and late gadolinium enhancement imaging in a single study. Journal of Cardiovascular Magnetic Resonance, 2016, 18, 66.	1.6	11
30	Timely Pulmonary Valve Replacement May Allow Preservation of Left Ventricular Circumferential Strain in Patients with Tetralogy of Fallot. Frontiers in Pediatrics, 2017, 5, 39.	0.9	10
31	Exploring kinetic energy as a new marker of cardiac function in the single ventricle circulation. Journal of Applied Physiology, 2018, 125, 889-900.	1.2	10
32	Biomechanical Modeling to Inform Pulmonary Valve Replacement in Tetralogy of Fallot Patients After Complete Repair. Canadian Journal of Cardiology, 2021, 37, 1798-1807.	0.8	10
33	Fick versus flow: a real-time invasive cardiovascular magnetic resonance (iCMR) reproducibility study. Journal of Cardiovascular Magnetic Resonance, 2021, 23, 95.	1.6	9
34	Left Ventricular Torsion Obtained Using Equilibrated Warping in Patients with Repaired Tetralogy of Fallot. Pediatric Cardiology, 2021, 42, 1275-1283.	0.6	8
35	NT-proBNP as Marker of Ventricular Dilatation and Pulmonary Regurgitation After Surgical Correction of Tetralogy of Fallot: A MRI Validation Study. Pediatric Cardiology, 2017, 38, 324-331.	0.6	7
36	Lymphatic pathway evaluation in congenital heart disease using 3D whole-heart balanced steady state free precession and T2-weighted cardiovascular magnetic resonance. Journal of Cardiovascular Magnetic Resonance, 2021, 23, 16.	1.6	6

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37	Visualization of coronary arteries in paediatric patients using whole-heart coronary magnetic resonance angiography: comparison of image-navigation and the standard approach for respiratory motion compensation. Journal of Cardiovascular Magnetic Resonance, 2019, 21, 13.	1.6	5
38	Improved coronary magnetic resonance angiography using gadobenate dimeglumine in pediatric congenital heart disease. Magnetic Resonance Imaging, 2018, 49, 47-54.	1.0	4
39	Pre-procedural CT imaging aids neonatal PDA stenting for ductal-dependent pulmonary blood flow with reduction in overall procedural morbidity. Cardiology in the Young, 2022, 32, 1401-1406.	0.4	4
40	Prediction of Ventricular Mechanics After Pulmonary Valve Replacement in Tetralogy of Fallot by Biomechanical Modeling: A Step Towards Precision Healthcare. Annals of Biomedical Engineering, 2021, 49, 3339-3348.	1.3	4
41	Role of Cross-Sectional Imaging in Pediatric Interventional Cardiac Catheterization. Children, 2022, 9, 300.	0.6	4
42	Creating three dimensional models of the right ventricular outflow tract: influence of contrast, sequence, operator, and threshold. International Journal of Cardiovascular Imaging, 2019, 35, 2067-2076.	0.7	3
43	Real-World Experience Measurement of Liver Iron Concentration by R2 vs. R2 Star MRI in Hemoglobinopathies. Diagnostics, 2020, 10, 768.	1.3	3
44	Fully automated segmentation of the right ventricle in patients with repaired Tetralogy of Fallot using U-Net. , 2020, 11317, .		3
45	Timeâ€Synchronization of Interventional Cardiovascular Magnetic Resonance Data Using a Biomechanical Model for Pressureâ€Volume Loop Analysis. Journal of Magnetic Resonance Imaging, 2023, 57, 320-323.	1.9	3
46	Combined coronary lumen and vessel wall magnetic resonance imaging with i-T2prep: influence of nitroglycerin. International Journal of Cardiovascular Imaging, 2015, 31, 77-82.	0.7	2
47	Chronic Occlusion of the Superior Vena Cava Resulting in Cyanosis in an Adult. Circulation: Cardiovascular Interventions, 2015, 8, e002163.	1.4	2
48	Feasibility of real-time cine cardiac magnetic resonance imaging to predict the presence of significant retrosternal adhesions prior to redo-sternotomy. Journal of Cardiovascular Magnetic Resonance, 2019, 21, 67.	1.6	2
49	Unlocking the Non-invasive Assessment of Conduit and Reservoir Function in the Aorta. Journal of Cardiovascular Translational Research, 2022, 15, 1075-1085.	1.1	2
50	Second stage of hybrid pathway: Have we reached a conclusion?. Journal of Thoracic and Cardiovascular Surgery, 2016, 152, 1205-1206.	0.4	1
51	Model-Assisted Time-Synchronization of Cardiac MR Image and Catheter Pressure Data. Lecture Notes in Computer Science, 2021, , 362-372.	1.0	1
52	Cardiac Modeling for Multisystem Inflammatory Syndrome in Children (MIS-C, PIMS-TS). Lecture Notes in Computer Science, 2021, , 435-446.	1.0	1
53	Velocity encoded mitral valve inflow cine: A novel and more reproducible method to determine cardiac rest periods during coronary magnetic resonance angiography. JRSM Cardiovascular Disease, 2022, 11, 204800402210875.	0.4	1
54	Commentary: Are we there yet?. Journal of Thoracic and Cardiovascular Surgery, 2021, 161, 203-204.	0.4	0

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55	Title is missing!. , 2020, 15, e0232830.		0
56	Title is missing!. , 2020, 15, e0232830.		0
57	Title is missing!. , 2020, 15, e0232830.		0
58	Title is missing!. , 2020, 15, e0232830.		0