

# Titus Kuehne

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/7961976/titus-kuehne-publications-by-citations.pdf>

**Version:** 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

141  
papers

4,176  
citations

35  
h-index

61  
g-index

147  
ext. papers

4,968  
ext. citations

5.7  
avg, IF

4.87  
L-index

#	Paper	IF	Citations
141	Pediatric Pulmonary Hypertension: Guidelines From the American Heart Association and American Thoracic Society. <i>Circulation</i> , <b>2015</b> , 132, 2037-99	16.7	624
140	Magnetic resonance imaging analysis of right ventricular pressure-volume loops: in vivo validation and clinical application in patients with pulmonary hypertension. <i>Circulation</i> , <b>2004</b> , 110, 2010-6	16.7	292
139	Percutaneous pulmonary valve implantation: two-centre experience with more than 100 patients. <i>European Heart Journal</i> , <b>2011</b> , 32, 1260-5	9.5	219
138	Sex-specific pediatric percentiles for ventricular size and mass as reference values for cardiac MRI: assessment by steady-state free-precession and phase-contrast MRI flow. <i>Circulation: Cardiovascular Imaging</i> , <b>2010</b> , 3, 65-76	3.9	125
137	Machine learning for real-time prediction of complications in critical care: a retrospective study. <i>Lancet Respiratory Medicine</i> , <b>2018</b> , 6, 905-914	35.1	114
136	Myocardial deformation parameters predict outcome in patients with repaired tetralogy of Fallot. <i>Heart</i> , <b>2016</b> , 102, 209-15	5.1	92
135	Physical models aiding in complex congenital heart surgery. <i>Annals of Thoracic Surgery</i> , <b>2008</b> , 86, 273-7	2.7	90
134	Flow-sensitive four-dimensional cine magnetic resonance imaging for offline blood flow quantification in multiple vessels: a validation study. <i>Journal of Magnetic Resonance Imaging</i> , <b>2010</b> , 32, 677-83	5.6	87
133	Assessment of diffuse myocardial fibrosis in rats using small-animal Look-Locker inversion recovery T1 mapping. <i>Circulation: Cardiovascular Imaging</i> , <b>2011</b> , 4, 636-40	3.9	83
132	Effects of pulmonary insufficiency on biventricular function in the developing heart of growing swine. <i>Circulation</i> , <b>2003</b> , 108, 2007-13	16.7	75
131	Cardiac function by MRI in congenital heart disease: impact of consensus training on interinstitutional variance. <i>Journal of Magnetic Resonance Imaging</i> , <b>2009</b> , 30, 956-66	5.6	74
130	Magnetic resonance imaging guided catheterisation for assessment of pulmonary vascular resistance: in vivo validation and clinical application in patients with pulmonary hypertension. <i>Heart</i> , <b>2005</b> , 91, 1064-9	5.1	73
129	MRI-based computational fluid dynamics for diagnosis and treatment prediction: clinical validation study in patients with coarctation of aorta. <i>Journal of Magnetic Resonance Imaging</i> , <b>2015</b> , 41, 909-16	5.6	68
128	Endovascular stents in pulmonary valve and artery in swine: feasibility study of MR imaging-guided deployment and postinterventional assessment. <i>Radiology</i> , <b>2003</b> , 226, 475-81	20.5	68
127	Functional analysis of the components of the right ventricle in the setting of tetralogy of Fallot. <i>Circulation: Cardiovascular Imaging</i> , <b>2008</b> , 1, 141-7	3.9	67
126	Executive summary. Expert consensus statement on the diagnosis and treatment of paediatric pulmonary hypertension. The European Paediatric Pulmonary Vascular Disease Network, endorsed by ISHLT and DGPK. <i>Heart</i> , <b>2016</b> , 102 Suppl 2, ii86-100	5.1	67
125	An open-source software tool for the generation of relaxation time maps in magnetic resonance imaging. <i>BMC Medical Imaging</i> , <b>2010</b> , 10, 16	2.9	66

124	Magnetic resonance imaging-guided balloon angioplasty of coarctation of the aorta: a pilot study. <i>Circulation</i> , <b>2006</b> , 113, 1093-100	16.7	66
123	Four-dimensional velocity-encoded magnetic resonance imaging improves blood flow quantification in patients with complex accelerated flow. <i>Journal of Magnetic Resonance Imaging</i> , <b>2013</b> , 37, 208-16	5.6	63
122	The practical clinical value of three-dimensional models of complex congenitally malformed hearts. <i>Journal of Thoracic and Cardiovascular Surgery</i> , <b>2009</b> , 138, 571-80	1.5	62
121	Systemic-to-pulmonary collateral flow in patients with palliated univentricular heart physiology: measurement using cardiovascular magnetic resonance 4D velocity acquisition. <i>Journal of Cardiovascular Magnetic Resonance</i> , <b>2012</b> , 14, 25	6.9	60
120	Magnetic resonance imaging-guided transcatheter implantation of a prosthetic valve in aortic valve position: Feasibility study in swine. <i>Journal of the American College of Cardiology</i> , <b>2004</b> , 44, 2247-9	15.1	57
119	A prospective, randomized, double-blind, placebo controlled trial of beta-blockade in patients who have undergone surgical correction of tetralogy of Fallot. <i>Cardiology in the Young</i> , <b>2007</b> , 17, 372-9	1	55
118	Arterial switch procedure for D-transposition of the great arteries: quantitative midterm evaluation of hemodynamic changes with cine MR imaging and phase-shift velocity mapping-initial experience. <i>Radiology</i> , <b>2000</b> , 214, 467-75	20.5	53
117	Impact of gender and age on cardiovascular function late after repair of tetralogy of Fallot: percentiles based on cardiac magnetic resonance. <i>Circulation: Cardiovascular Imaging</i> , <b>2011</b> , 4, 703-11	3.9	49
116	Pulmonary vascular resistance, collateral flow, and ventricular function in patients with a Fontan circulation at rest and during dobutamine stress. <i>Circulation: Cardiovascular Imaging</i> , <b>2010</b> , 3, 623-31	3.9	48
115	Pressure fields by flow-sensitive, 4D, velocity-encoded CMR in patients with aortic coarctation. <i>JACC: Cardiovascular Imaging</i> , <b>2014</b> , 7, 920-6	8.4	47
114	Integrated analysis of atrioventricular interactions in tetralogy of Fallot. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>2010</b> , 299, H364-71	5.2	46
113	The impact of MRI-based inflow for the hemodynamic evaluation of aortic coarctation. <i>Annals of Biomedical Engineering</i> , <b>2013</b> , 41, 2575-87	4.7	43
112	Sequential magnetic resonance monitoring of pulmonary flow with endovascular stents placed across the pulmonary valve in growing Swine. <i>Circulation</i> , <b>2001</b> , 104, 2363-8	16.7	43
111	T1 mapping in ischaemic heart disease. <i>European Heart Journal Cardiovascular Imaging</i> , <b>2014</b> , 15, 597-602	4.1	42
110	Caval blood flow distribution in patients with Fontan circulation: quantification by using particle traces from 4D flow MR imaging. <i>Radiology</i> , <b>2013</b> , 267, 67-75	20.5	42
109	Image-Based Personalization of Cardiac Anatomy for Coupled Electromechanical Modeling. <i>Annals of Biomedical Engineering</i> , <b>2016</b> , 44, 58-70	4.7	41
108	In vivo safe catheter visualization and slice tracking using an optically detunable resonant marker. <i>Magnetic Resonance in Medicine</i> , <b>2004</b> , 52, 860-8	4.4	39
107	Pair of resonant fiducial markers for localization of endovascular catheters at all catheter orientations. <i>Journal of Magnetic Resonance Imaging</i> , <b>2003</b> , 17, 620-4	5.6	39

106	Reference values for atrial size and function in children and young adults by cardiac MR: a study of the German competence network congenital heart defects. <i>Journal of Magnetic Resonance Imaging</i> , <b>2011</b> , 33, 1028-39	5.6	34
105	Integrated assessment of diastolic and systolic ventricular function using diagnostic cardiac magnetic resonance catheterization: validation in pigs and application in a clinical pilot study. <i>JACC: Cardiovascular Imaging</i> , <b>2009</b> , 2, 1271-81	8.4	34
104	Early and mid-term results with the Growth Stent--a possible concept for transcatheter treatment of aortic coarctation from infancy to adulthood by stent implantation?. <i>Catheterization and Cardiovascular Interventions</i> , <b>2008</b> , 71, 120-6	2.7	34
103	Cardiovascular magnetic resonance of myocardial edema using a short inversion time inversion recovery (STIR) black-blood technique: diagnostic accuracy of visual and semi-quantitative assessment. <i>Journal of Cardiovascular Magnetic Resonance</i> , <b>2012</b> , 14, 22	6.9	33
102	Balloon Dilatation and Stenting for Aortic Coarctation: A Systematic Review and Meta-Analysis. <i>Circulation: Cardiovascular Interventions</i> , <b>2016</b> , 9,	6	28
101	Cardiac MR and CT imaging in children with suspected or confirmed pulmonary hypertension/pulmonary hypertensive vascular disease. Expert consensus statement on the diagnosis and treatment of paediatric pulmonary hypertension. The European Paediatric Pulmonary Hypertension Network, endorsed by ESC and ESCP. <i>Heart</i> <b>2015</b> , 103, Suppl 2, ii20-5	5.1	27
100	Is MRI-based CFD able to improve clinical treatment of coarctations of aorta?. <i>Annals of Biomedical Engineering</i> , <b>2015</b> , 43, 168-76	4.7	26
99	Hemodynamic and energetic aspects of the left ventricle in patients with mitral regurgitation before and after mitral valve surgery. <i>Journal of Magnetic Resonance Imaging</i> , <b>2015</b> , 42, 1705-12	5.6	24
98	Catheter visualization with resonant markers at MR imaging-guided deployment of endovascular stents in swine. <i>Radiology</i> , <b>2004</b> , 233, 774-80	20.5	23
97	MRI-based computational hemodynamics in patients with aortic coarctation using the lattice Boltzmann methods: Clinical validation study. <i>Journal of Magnetic Resonance Imaging</i> , <b>2017</b> , 45, 139-146	5.6	22
96	Hemodynamic Evaluation of a Biological and Mechanical Aortic Valve Prosthesis Using Patient-Specific MRI-Based CFD. <i>Artificial Organs</i> , <b>2018</b> , 42, 49-57	2.6	22
95	Feasibility and efficacy of stent redilatation in aortic coarctation. <i>Catheterization and Cardiovascular Interventions</i> , <b>2008</b> , 72, 552-6	2.7	22
94	Ectopic beats arise from micro-reentries near infarct regions in simulations of a patient-specific heart model. <i>Scientific Reports</i> , <b>2018</b> , 8, 16392	4.9	22
93	Partial anomalous pulmonary venous drainage in young pediatric patients: the role of magnetic resonance imaging. <i>Pediatric Cardiology</i> , <b>2009</b> , 30, 458-64	2.1	21
92	Patient-specific modeling of left ventricular electromechanics as a driver for haemodynamic analysis. <i>Europace</i> , <b>2016</b> , 18, iv121-iv129	3.9	21
91	Ascending aortic and main pulmonary artery areas derived from cardiovascular magnetic resonance as reference values for normal subjects and repaired tetralogy of Fallot. <i>Circulation: Cardiovascular Imaging</i> , <b>2012</b> , 5, 644-51	3.9	20
90	Myocardial T1 maps reflect histological findings in acute and chronic stages of myocarditis in a rat model. <i>Journal of Cardiovascular Magnetic Resonance</i> , <b>2016</b> , 18, 19	6.9	19
89	Small animal Look-Locker inversion recovery (SALLI) for simultaneous generation of cardiac T1 maps and cine and inversion recovery-prepared images at high heart rates: initial experience. <i>Radiology</i> , <b>2011</b> , 261, 258-65	20.5	18

88	Influence of blood-pool contrast media on MR imaging and flow measurements in the presence of pulmonary arterial stents in swine. <i>Radiology</i> , <b>2002</b> , 223, 439-45	20.5	18
87	Interactive virtual stent planning for the treatment of coarctation of the aorta. <i>International Journal of Computer Assisted Radiology and Surgery</i> , <b>2016</b> , 11, 133-44	3.9	17
86	Flow-sensitive four-dimensional velocity-encoded magnetic resonance imaging reveals abnormal blood flow patterns in the aorta and pulmonary trunk of patients with transposition. <i>Cardiology in the Young</i> , <b>2014</b> , 24, 47-53	1	17
85	Surgery impacts right atrial function in tetralogy of Fallot. <i>Journal of Thoracic and Cardiovascular Surgery</i> , <b>2014</b> , 147, 1306-11	1.5	16
84	Poorer right ventricular systolic function and exercise capacity in women after repair of tetralogy of fallot: a sex comparison of standard deviation scores based on sex-specific reference values in healthy control subjects. <i>Circulation: Cardiovascular Imaging</i> , <b>2013</b> , 6, 924-33	3.9	16
83	Combined pulmonary stenosis and insufficiency preserves myocardial contractility in the developing heart of growing swine at midterm follow-up. <i>Journal of Applied Physiology</i> , <b>2005</b> , 99, 1422-7	3.7	16
82	Assessment of wall stresses and mechanical heart power in the left ventricle: Finite element modeling versus Laplace analysis. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , <b>2018</b> , 34, e3147	2.6	16
81	Towards a Computational Framework for Modeling the Impact of Aortic Coarctations Upon Left Ventricular Load. <i>Frontiers in Physiology</i> , <b>2018</b> , 9, 538	4.6	15
80	Osteosarcoma of the mobile spine. <i>Annals of Oncology</i> , <b>2013</b> , 24, 2190-5	10.3	15
79	Right ventricular function in grown-up patients after correction of congenital right heart disease. <i>Clinical Research in Cardiology</i> , <b>2011</b> , 100, 289-96	6.1	15
78	Deep-learning-based real-time prediction of acute kidney injury outperforms human predictive performance. <i>Npj Digital Medicine</i> , <b>2020</b> , 3, 139	15.7	15
77	RIKADA Study Reveals Risk Factors in Pediatric Primary Cardiomyopathy. <i>Journal of the American Heart Association</i> , <b>2019</b> , 8, e012531	6	14
76	Three-dimensional alignment of the aggregated myocytes in the normal and hypertrophic murine heart. <i>Journal of Applied Physiology</i> , <b>2009</b> , 107, 921-7	3.7	14
75	Renal sympathetic denervation restores aortic distensibility in patients with resistant hypertension: data from a multi-center trial. <i>Clinical Research in Cardiology</i> , <b>2018</b> , 107, 642-652	6.1	13
74	Flow-sensitive four-dimensional magnetic resonance imaging facilitates and improves the accurate diagnosis of partial anomalous pulmonary venous drainage. <i>Cardiology in the Young</i> , <b>2011</b> , 21, 528-35	1	13
73	Development of a modeling pipeline for the prediction of hemodynamic outcome after virtual mitral valve repair using image-based CFD. <i>International Journal of Computer Assisted Radiology and Surgery</i> , <b>2018</b> , 13, 1795-1805	3.9	12
72	Validation of admittance computed left ventricular volumes against real-time three-dimensional echocardiography in the porcine heart. <i>Experimental Physiology</i> , <b>2013</b> , 98, 1092-101	2.4	12
71	Transcatheter creation of an aortopulmonary shunt in an animal model. <i>Catheterization and Cardiovascular Interventions</i> , <b>2010</b> , 75, 563-9	2.7	12

70	Personalization of electro-mechanical models of the pressure-overloaded left ventricle: fitting of Windkessel-type afterload models. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , <b>2020</b> , 378, 20190342	3	12
69	Uncertainty Quantification for Non-invasive Assessment of Pressure Drop Across a Coarctation of the Aorta Using CFD. <i>Cardiovascular Engineering and Technology</i> , <b>2018</b> , 9, 582-596	2.2	12
68	Model-Based Therapy Planning Allows Prediction of Haemodynamic Outcome after Aortic Valve Replacement. <i>Scientific Reports</i> , <b>2017</b> , 7, 9897	4.9	11
67	Exercise capacity reflects ventricular function in patients having the Fontan circulation. <i>Cardiology in the Young</i> , <b>2009</b> , 19, 340-5	1	11
66	Images in cardiovascular medicine. Cast of complex congenital heart malformation in a living patient. <i>Circulation</i> , <b>2005</b> , 112, e356-7	16.7	11
65	Beyond Pressure Gradients: The Effects of Intervention on Heart Power in Aortic Coarctation. <i>PLoS ONE</i> , <b>2017</b> , 12, e0168487	3.7	11
64	Impact of patient-specific LVOT inflow profiles on aortic valve prosthesis and ascending aorta hemodynamics. <i>Journal of Computational Science</i> , <b>2018</b> , 24, 91-100	3.4	10
63	Extraction of open-state mitral valve geometry from CT volumes. <i>International Journal of Computer Assisted Radiology and Surgery</i> , <b>2018</b> , 13, 1741-1754	3.9	9
62	Mortality and morbidity in different immunization protocols for experimental autoimmune myocarditis in rats. <i>Acta Physiologica</i> , <b>2014</b> , 210, 889-98	5.6	9
61	Patient-specific requirements and clinical validation of MRI-based pressure mapping: A two-center study in patients with aortic coarctation. <i>Journal of Magnetic Resonance Imaging</i> , <b>2019</b> , 49, 81-89	5.6	9
60	Hemodynamic Changes During Physiological and Pharmacological Stress Testing in Healthy Subjects, Aortic Stenosis and Aortic Coarctation Patients-A Systematic Review and Meta-Analysis. <i>Frontiers in Cardiovascular Medicine</i> , <b>2019</b> , 6, 43	5.4	8
59	The growth and evolution of cardiovascular magnetic resonance: a 20-year history of the Society for Cardiovascular Magnetic Resonance (SCMR) annual scientific sessions. <i>Journal of Cardiovascular Magnetic Resonance</i> , <b>2018</b> , 20, 8	6.9	8
58	Bicuspid aortic valve disease: systematic review and meta-analysis of surgical aortic valve repair. <i>Open Heart</i> , <b>2016</b> , 3, e000502	3	8
57	MRI as a tool for non-invasive vascular profiling: a pilot study in patients with aortic coarctation. <i>Expert Review of Medical Devices</i> , <b>2016</b> , 13, 103-12	3.5	7
56	Evaluation of new software for angiographic determination of right ventricular volumes. <i>International Journal of Cardiovascular Imaging</i> , <b>2005</b> , 21, 575-85	2.5	7
55	Comprehensive four-dimensional phase-contrast flow assessment in hemi-Fontan circulation: systemic-to-pulmonary collateral flow quantification. <i>Cardiology in the Young</i> , <b>2011</b> , 21, 116-9	1	6
54	Z-score mapping for standardized analysis and reporting of cardiovascular magnetic resonance modified Look-Locker inversion recovery (MOLLI) T1 data: Normal behavior and validation in patients with amyloidosis. <i>Journal of Cardiovascular Magnetic Resonance</i> , <b>2020</b> , 22, 6	6.9	6
53	Effects of Renal Denervation on Renal Artery Function in Humans: Preliminary Study. <i>PLoS ONE</i> , <b>2016</b> , 11, e0150662	3.7	6



52	Virtual downsizing for decision support in mitral valve repair. <i>International Journal of Computer Assisted Radiology and Surgery</i> , <b>2019</b> , 14, 357-371	3.9	6
51	Non-invasive assessment of patient-specific aortic haemodynamics from four-dimensional flow MRI data. <i>Interface Focus</i> , <b>2018</b> , 8, 20170006	3.9	6
50	User-dependent variability in mitral valve segmentation and its impact on CFD-computed hemodynamic parameters. <i>International Journal of Computer Assisted Radiology and Surgery</i> , <b>2019</b> , 14, 1687-1696	3.9	5
49	Cardiac MRI in patients with complex CHD following primary or secondary implantation of MRI-conditional pacemaker system. <i>Cardiology in the Young</i> , <b>2016</b> , 26, 306-14	1	5
48	Cardiac T1 mapping in congenital heart disease: bolus vs. infusion protocols for measurements of myocardial extracellular volume fraction. <i>International Journal of Cardiovascular Imaging</i> , <b>2017</b> , 33, 1961-1968	2.5	4
47	Towards improving the accuracy of aortic transvalvular pressure gradients: rethinking Bernoulli. <i>Medical and Biological Engineering and Computing</i> , <b>2020</b> , 58, 1667-1679	3.1	4
46	3D image fusion for live guidance of stent implantation in aortic coarctation - magnetic resonance imaging and computed tomography image overlay enhances interventional technique. <i>Postepy W Kardiologii Interwencyjnej</i> , <b>2017</b> , 13, 269-272	0.4	4
45	Surrogates for myocardial power and power efficiency in patients with aortic valve disease. <i>Scientific Reports</i> , <b>2019</b> , 9, 16407	4.9	4
44	Effects of incremental beta-blocker dosing on myocardial mechanics of the human left ventricle: MRI 3D-tagging insight into pharmacodynamics supports theory of inner antagonism. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>2015</b> , 309, H45-52	5.2	4
43	Closed-chest small animal model to study myocardial infarction in an MRI environment in real time. <i>International Journal of Cardiovascular Imaging</i> , <b>2015</b> , 31, 115-21	2.5	4
42	Combination of real time three-dimensional echocardiography with diagnostic catheterization to derive left ventricular pressure-volume relations. <i>Echocardiography</i> , <b>2014</b> , 31, 179-87	1.5	4
41	An extensible software platform for interdisciplinary cardiovascular imaging research. <i>Computer Methods and Programs in Biomedicine</i> , <b>2020</b> , 184, 105277	6.9	4
40	Wearable devices can predict the outcome of standardized 6-minute walk tests in heart disease. <i>Npj Digital Medicine</i> , <b>2020</b> , 3, 92	15.7	4
39	Synthetic Database of Aortic Morphometry and Hemodynamics: Overcoming Medical Imaging Data Availability. <i>IEEE Transactions on Medical Imaging</i> , <b>2021</b> , 40, 1438-1449	11.7	4
38	Surgical Aortic Valve Replacement: Are We Able to Improve Hemodynamic Outcome?. <i>Biophysical Journal</i> , <b>2019</b> , 117, 2324-2336	2.9	4
37	Magnetic resonance and computed tomography imaging fusion for live guidance of percutaneous pulmonary valve implantation. <i>Postepy W Kardiologii Interwencyjnej</i> , <b>2018</b> , 14, 413-421	0.4	4
36	Variability of Myocardial Strain During Isometric Exercise in Subjects With and Without Heart Failure. <i>Frontiers in Cardiovascular Medicine</i> , <b>2020</b> , 7, 111	5.4	3
35	Alterations in creatine metabolism observed in experimental autoimmune myocarditis using ex vivo proton magic angle spinning MRS. <i>NMR in Biomedicine</i> , <b>2015</b> , 28, 1625-33	4.4	3

34	OsiriX plugin for integrated cardiac imaging research <b>2014</b> ,		3
33	Proteomic Analysis Reveals Upregulation of ACE2 (Angiotensin-Converting Enzyme 2), the Putative SARS-CoV-2 Receptor in Pressure-but Not Volume-Overloaded Human Hearts. <i>Hypertension</i> , <b>2020</b> , 76, e41-e43	8.5	3
32	Diffuse myocardial fibrosis by T1 mapping is associated with heart failure in pediatric primary dilated cardiomyopathy. <i>International Journal of Cardiology</i> , <b>2021</b> , 333, 219-225	3.2	3
31	Tissue Sodium Content and Arterial Hypertension in Obese Adolescents. <i>Journal of Clinical Medicine</i> , <b>2019</b> , 8,	5.1	3
30	Validation of simple measures of aortic distensibility based on standard 4-chamber cine CMR: a new approach for clinical studies. <i>Clinical Research in Cardiology</i> , <b>2020</b> , 109, 454-464	6.1	3
29	Impact of predictive medicine on therapeutic decision making: a randomized controlled trial in congenital heart disease. <i>Npj Digital Medicine</i> , <b>2019</b> , 2, 17	15.7	2
28	Numerical investigation of the impact of branching vessel boundary conditions on aortic hemodynamics. <i>Current Directions in Biomedical Engineering</i> , <b>2017</b> , 3, 321-324	0.5	2
27	Right ventricular energetics and power in pulmonary regurgitation vs. stenosis using four-dimensional phase-contrast magnetic resonance. <i>International Journal of Cardiology</i> , <b>2018</b> , 263, 165-170	3.2	2
26	Cardiac radiomics: an interactive approach for 4D data exploration. <i>Current Directions in Biomedical Engineering</i> , <b>2020</b> , 6,	0.5	2
25	Assessment of hemodynamic responses to exercise in aortic coarctation using MRI-ergometry in combination with computational fluid dynamics. <i>Scientific Reports</i> , <b>2020</b> , 10, 18894	4.9	2
24	Abnormal aortic flow profiles persist after aortic valve replacement in the majority of patients with aortic valve disease: how model-based personalized therapy planning could improve results. A pilot study approach. <i>European Journal of Cardio-thoracic Surgery</i> , <b>2020</b> , 57, 133-141	3	2
23	Skin Sodium Accumulates in Psoriasis and Reflects Disease Severity. <i>Journal of Investigative Dermatology</i> , <b>2021</b> ,	4.3	2
22	Measuring myocardial extracellular volume of the right ventricle in patients with congenital heart disease. <i>Scientific Reports</i> , <b>2021</b> , 11, 2679	4.9	2
21	Oral everolimus inhibits neointimal proliferation in prosthetic pulmonary valved stents in pigs. <i>Journal of Heart Valve Disease</i> , <b>2008</b> , 17, 465-72		2
20	Avoidable costs of stenting for aortic coarctation in the United Kingdom: an economic model. <i>BMC Health Services Research</i> , <b>2017</b> , 17, 258	2.9	1
19	Assessment of cardiac function and myocardial morphology using small animal Look-Locker inversion recovery (SALLI) MRI in rats. <i>Journal of Visualized Experiments</i> , <b>2013</b> ,	1.6	1
18	Mesh Based Approximation of the Left Ventricle Using a Controlled Shrinkwrap Algorithm. <i>Lecture Notes in Computer Science</i> , <b>2019</b> , 230-239	0.9	1
17	Impact of valve morphology, hypertension and age on aortic wall properties in patients with coarctation: a two-centre cross-sectional study. <i>BMJ Open</i> , <b>2020</b> , 10, e034853	3	1



16	Hemodynamic Modeling of Biological Aortic Valve Replacement Using Preoperative Data Only. <i>Frontiers in Cardiovascular Medicine</i> , <b>2020</b> , 7, 593709	5.4	1
15	Image-Based Computational Model Predicts Dobutamine-Induced Hemodynamic Changes in Patients With Aortic Coarctation. <i>Circulation: Cardiovascular Imaging</i> , <b>2021</b> , 14, e011523	3.9	1
14	CMR-Based and Time-Shift Corrected Pressure Gradients Provide Good Agreement to Invasive Measurements in Aortic Coarctation. <i>JACC: Cardiovascular Imaging</i> , <b>2018</b> , 11, 1725-1727	8.4	1
13	Computed Tomography-Based Assessment of Transvalvular Pressure Gradient in Aortic Stenosis. <i>Frontiers in Cardiovascular Medicine</i> , <b>2021</b> , 8, 706628	5.4	1
12	Deep Learning Based Centerline-Aggregated Aortic Hemodynamics: An Efficient Alternative to Numerical Modelling of Hemodynamics. <i>IEEE Journal of Biomedical and Health Informatics</i> , <b>2021</b> , PP,	7.2	1
11	CT-Based Simulation of Left Ventricular Hemodynamics: A Pilot Study in Mitral Regurgitation and Left Ventricle Aneurysm Patients.. <i>Frontiers in Cardiovascular Medicine</i> , <b>2022</b> , 9, 828556	5.4	1
10	Presence of reduced regional left ventricular function even in the absence of left ventricular wall scar tissue in the long term after repair of an anomalous left coronary artery from the pulmonary artery. <i>Cardiology in the Young</i> , <b>2018</b> , 28, 200-207	1	0
9	An orifice shape-based reduced order model of patient-specific mitral valve regurgitation. <i>Engineering Applications of Computational Fluid Mechanics</i> , <b>2021</b> , 15, 1868-1884	4.5	0
8	Midwall Fibrosis and Cardiac Mechanics: Rigid Body Rotation Is a Novel Marker of Disease Severity in Pediatric Primary Dilated Cardiomyopathy.. <i>Frontiers in Cardiovascular Medicine</i> , <b>2021</b> , 8, 810005	5.4	0
7	Effect of Sunitinib Treatment on Skin Sodium Accumulation in Patients With Renal Cancer: a Pilot Study.. <i>Hypertension</i> , <b>2022</b> , HYPERTENSIONAHA12219079	8.5	0
6	Impact of Right Ventricular Pressure Load After Repair of Tetralogy of Fallot.. <i>Journal of the American Heart Association</i> , <b>2022</b> , e022694	6	0
5	Real-time three-dimensional echocardiography integrated with diagnostic catheterization to derive left ventricular pressure-volume relations: a feasibility study. Kutty S., Li L., Padiyath A., et al. <i>European Heart Journal Cardiovascular Imaging</i> , <b>2013</b> , 14, 301	4.1	
4	Sensitivity analysis of FDA's benchmark nozzle regarding in vitro imperfections - Do we need asymmetric CFD benchmarks?. <i>Current Directions in Biomedical Engineering</i> , <b>2020</b> , 6, 78-81	0.5	
3	Unsupervised Learning and Statistical Shape Modeling of the Morphometry and Hemodynamics of Coarctation of the Aorta. <i>Lecture Notes in Computer Science</i> , <b>2020</b> , 776-785	0.9	
2	Advanced Imaging of the Right Ventricle. <i>Respiratory Medicine</i> , <b>2015</b> , 57-75	0.2	
1	Hemodynamic Changes During Physiological and Pharmacological Stress Testing in Patients With Heart Failure: A Systematic Review and Meta-Analysis.. <i>Frontiers in Cardiovascular Medicine</i> , <b>2022</b> , 9, 718114	5.4	1