Titus Kuehne

List of Publications by Year
in descending order

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		81839	88593
147	5,557	39	70
papers	citations	h-index	g-index

147	147	147	5884
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Pediatric Pulmonary Hypertension. Circulation, 2015, 132, 2037-2099.	1.6	879
2	Magnetic Resonance Imaging Analysis of Right Ventricular Pressure-Volume Loops. Circulation, 2004, 110, 2010-2016.	1.6	341
3	Percutaneous pulmonary valve implantation: two-centre experience with more than 100 patients. European Heart Journal, 2011, 32, 1260-1265.	1.0	266
4	Machine learning for real-time prediction of complications in critical care: a retrospective study. Lancet Respiratory Medicine,the, 2018, 6, 905-914.	5.2	226
5	Sex-Specific Pediatric Percentiles for Ventricular Size and Mass as Reference Values for Cardiac MRI. Circulation: Cardiovascular Imaging, 2010, 3, 65-76.	1.3	151
6	Myocardial deformation parameters predict outcome in patients with repaired tetralogy of Fallot. Heart, 2016, 102, 209-215.	1.2	119
7	Assessment of Diffuse Myocardial Fibrosis in Rats Using Small-Animal Look-Locker Inversion Recovery T1 Mapping. Circulation: Cardiovascular Imaging, 2011, 4, 636-640.	1.3	103
8	Physical Models Aiding in Complex Congenital Heart Surgery. Annals of Thoracic Surgery, 2008, 86, 273-277.	0.7	102
9	Flowâ€sensitive fourâ€dimensional cine magnetic resonance imaging for offline blood flow quantification in multiple vessels: A validation study. Journal of Magnetic Resonance Imaging, 2010, 32, 677-683.	1.9	98
10	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. Heart, 2016, 102, ii86-ii100.	1.2	89
11	Magnetic resonance imaging guided catheterisation for assessment of pulmonary vascular resistance: in vivo validation and clinical application in patients with pulmonary hypertension. Heart, 2005, 91, 1064-1069.	1.2	87
12	MRIâ€based computational fluid dynamics for diagnosis and treatment prediction: Clinical validation study in patients with coarctation of aorta. Journal of Magnetic Resonance Imaging, 2015, 41, 909-916.	1.9	87
13	Effects of Pulmonary Insufficiency on Biventricular Function in the Developing Heart of Growing Swine. Circulation, 2003, 108, 2007-2013.	1.6	83
14	Cardiac function by MRI in congenital heart disease: Impact of consensus training on interinstitutional variance. Journal of Magnetic Resonance Imaging, 2009, 30, 956-966.	1.9	82
15	Magnetic Resonance Imagingâ€“Guided Balloon Angioplasty of Coarctation of the Aorta. Circulation, 2006, 113, 1093-1100.	1.6	80
16	Endovascular Stents in Pulmonary Valve and Artery in Swine: Feasibility Study of MR Imagingâ€“guided Deployment and Postinterventional Assessment. Radiology, 2003, 226, 475-481.	3.6	78
17	The practical clinical value of three-dimensional models of complex congenitally malformed hearts. Journal of Thoracic and Cardiovascular Surgery, 2009, 138, 571-580.	0.4	76
18	Functional Analysis of the Components of the Right Ventricle in the Setting of Tetralogy of Fallot. Circulation: Cardiovascular Imaging, 2008, 1, 141-147.	1.3	75

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19	An open-source software tool for the generation of relaxation time maps in magnetic resonance imaging. BMC Medical Imaging, 2010, 10, 16.	1.4	74
20	Fourâ€dimensional velocityâ€encoded magnetic resonance imaging improves blood flow quantification in patients with complex accelerated flow. Journal of Magnetic Resonance Imaging, 2013, 37, 208-216.	1.9	71
21	Systemic-to-pulmonary collateral flow in patients with palliated univentricular heart physiology: measurement using cardiovascular magnetic resonance 4D velocity acquisition. Journal of Cardiovascular Magnetic Resonance, 2012, 14, 25.	1.6	70
22	Arterial Switch Procedure for D-Transposition of the Great Arteries: Quantitative Midterm Evaluation of Hemodynamic Changes with Cine MR Imaging and Phase-Shift Velocity Mappingâ€”Initial Experience. Radiology, 2000, 214, 467-475.	3.6	69
23	A prospective, randomized, double-blind, placebo controlled trial of beta-blockade in patients who have undergone surgical correction of tetralogy of Fallot. Cardiology in the Young, 2007, 17, 372-379.	0.4	69
24	Deep-learning-based real-time prediction of acute kidney injury outperforms human predictive performance. Npj Digital Medicine, 2020, 3, 139.	5.7	65
25	Magnetic resonance imaging-guided transcatheter implantation of a prosthetic valve in aortic valve position:. Journal of the American College of Cardiology, 2004, 44, 2247-2249.	1.2	63
26	Pulmonary Vascular Resistance, Collateral Flow, and Ventricular Function in Patients With a Fontan Circulation at Rest and During Dobutamine Stress. Circulation: Cardiovascular Imaging, 2010, 3, 623-631.	1.3	62
27	Integrated analysis of atrioventricular interactions in tetralogy of Fallot. American Journal of Physiology - Heart and Circulatory Physiology, 2010, 299, H364-H371.	1.5	59
28	Impact of Gender and Age on Cardiovascular Function Late After Repair of Tetralogy of Fallot. Circulation: Cardiovascular Imaging, 2011, 4, 703-711.	1.3	59
29	The Impact of MRI-based Inflow for the Hemodynamic Evaluation of Aortic Coarctation. Annals of Biomedical Engineering, 2013, 41, 2575-2587.	1.3	59
30	Pressure Fields by Flow-Sensitive, 4D, Velocity-Encoded CMR in PatientsÂWith Aortic Coarctation. JACC: Cardiovascular Imaging, 2014, 7, 920-926.	2.3	57
31	In vivo safe catheter visualization and slice tracking using an optically detunable resonant marker. Magnetic Resonance in Medicine, 2004, 52, 860-868.	1.9	51
32	T1 mapping in ischaemic heart disease. European Heart Journal Cardiovascular Imaging, 2014, 15, 597-602.	0.5	50
33	Caval Blood Flow Distribution in Patients with Fontan Circulation: Quantification by Using Particle Traces from 4D Flow MR Imaging. Radiology, 2013, 267, 67-75.	3.6	49
34	Early and midâ€term results with the growth stentâ€”A possible concept for transcatheter treatment of aortic coarctation from infancy to adulthood by stent implantation?. Catheterization and Cardiovascular Interventions, 2008, 71, 120-126.	0.7	48
35	Image-Based Personalization of Cardiac Anatomy for Coupled Electromechanical Modeling. Annals of Biomedical Engineering, 2016, 44, 58-70.	1.3	48
36	Sequential Magnetic Resonance Monitoring of Pulmonary Flow With Endovascular Stents Placed Across the Pulmonary Valve in Growing Swine. Circulation, 2001, 104, 2363-2368.	1.6	47

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37	Pair of resonant fiducial markers for localization of endovascular catheters at all catheter orientations. Journal of Magnetic Resonance Imaging, 2003, 17, 620-624.	1.9	43
38	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. Journal of Magnetic Resonance Imaging, 2011, 33, 1028-1039.	1.9	43
39	Integrated Assessment of Diastolic and Systolic Ventricular Function Using Diagnostic Cardiac Magnetic Resonance Catheterization. JACC: Cardiovascular Imaging, 2009, 2, 1271-1281.	2.3	42
40	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. Journal of Cardiovascular Magnetic Resonance, 2012, 14, 22.	1.6	40
41	Balloon Dilatation and Stenting for Aortic Coarctation. Circulation: Cardiovascular Interventions, 2016, 9, .	1.4	40
42	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 Vascular Disease Network, endorsed by ISHLT and DGPK. Heart, 2016, 102, ii30-ii35.	1.2	39
43	Hemodynamic Evaluation of a Biological and Mechanical Aortic Valve Prosthesis Using Patientâ€Specific MRIâ€Based CFD. Artificial Organs, 2018, 42, 49-57.	1.0	38
44	Hemodynamic and energetic aspects of the left ventricle in patients with mitral regurgitation before and after mitral valve surgery. Journal of Magnetic Resonance Imaging, 2015, 42, 1705-1712.	1.9	37
45	Patient-specific modeling of left ventricular electromechanics as a driver for haemodynamic analysis. Europace, 2016, 18, iv121-iv129.	0.7	32
46	Ectopic beats arise from micro-reentries near infarct regions in simulations of a patient-specific heart model. Scientific Reports, 2018, 8, 16392.	1.6	32
47	Partial Anomalous Pulmonary Venous Drainage in Young Pediatric Patients: The Role of Magnetic Resonance Imaging. Pediatric Cardiology, 2009, 30, 458-464.	0.6	31
48	Feasibility and efficacy of stent redilatation in aortic coarctation. Catheterization and Cardiovascular Interventions, 2008, 72, 552-556.	0.7	30
49	MRI-based computational hemodynamics in patients with aortic coarctation using the lattice Boltzmann methods: Clinical validation study. Journal of Magnetic Resonance Imaging, 2017, 45, 139-146.	1.9	30
50	Is MRI-Based CFD Able to Improve Clinical Treatment of Coarctations of Aorta?. Annals of Biomedical Engineering, 2015, 43, 168-176.	1.3	29
51	Catheter Visualization with Resonant Markers at MR Imagingâ€“guided Deployment of Endovascular Stents in Swine. Radiology, 2004, 233, 774-780.	3.6	28
52	Ascending Aortic and Main Pulmonary Artery Areas Derived From Cardiovascular Magnetic Resonance as Reference Values for Normal Subjects and Repaired Tetralogy of Fallot. Circulation: Cardiovascular Imaging, 2012, 5, 644-651.	1.3	25
53	Towards a Computational Framework for Modeling the Impact of Aortic Coarctations Upon Left Ventricular Load. Frontiers in Physiology, 2018, 9, 538.	1.3	24
54	RIKADA Study Reveals Risk Factors in Pediatric Primary Cardiomyopathy. Journal of the American Heart Association, 2019, 8, e012531.	1.6	24

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55	Assessment of wall stresses and mechanical heart power in the left ventricle: Finite element modeling versus Laplace analysis. International Journal for Numerical Methods in Biomedical Engineering, 2018, 34, e3147.	1.0	23
56	Personalization of electro-mechanical models of the pressure-overloaded left ventricle: fitting of Windkessel-type afterload models. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2020, 378, 20190342.	1.6	23
57	Osteosarcoma of the mobile spine. Annals of Oncology, 2013, 24, 2190-2195.	0.6	22
58	Uncertainty Quantification for Non-invasive Assessment of Pressure Drop Across a Coarctation of the Aorta Using CFD. Cardiovascular Engineering and Technology, 2018, 9, 582-596.	0.7	22
59	Influence of Blood-Pool Contrast Media on MR Imaging and Flow Measurements in the Presence of Pulmonary Arterial Stents in Swine. Radiology, 2002, 223, 439-445.	3.6	21
60	Small Animal Look-Locker Inversion Recovery (SALLI) for Simultaneous Generation of Cardiac T1 Maps and Cine and Inversion Recoveryâ€“prepared Images at High Heart Rates: Initial Experience. Radiology, 2011, 261, 258-265.	3.6	21
61	Myocardial T1 maps reflect histological findings in acute and chronic stages of myocarditis in a rat model. Journal of Cardiovascular Magnetic Resonance, 2016, 18, 19.	1.6	21
62	Interactive virtual stent planning for the treatment of coarctation of the aorta. International Journal of Computer Assisted Radiology and Surgery, 2016, 11, 133-144.	1.7	20
63	Skin Sodium Accumulates in Psoriasis and Reflects Disease Severity. Journal of Investigative Dermatology, 2022, 142, 166-178.e8.	0.3	20
64	Poorer Right Ventricular Systolic Function and Exercise Capacity in Women After Repair of Tetralogy of Fallot. Circulation: Cardiovascular Imaging, 2013, 6, 924-933.	1.3	19
65	Flow-sensitive four-dimensional velocity-encoded magnetic resonance imaging reveals abnormal blood flow patterns in the aorta and pulmonary trunk of patients with transposition. Cardiology in the Young, 2014, 24, 47-53.	0.4	19
66	Combined pulmonary stenosis and insufficiency preserves myocardial contractility in the developing heart of growing swine at midterm follow-up. Journal of Applied Physiology, 2005, 99, 1422-1427.	1.2	18
67	Three-dimensional alignment of the aggregated myocytes in the normal and hypertrophic murine heart. Journal of Applied Physiology, 2009, 107, 921-927.	1.2	18
68	Development of a modeling pipeline for the prediction of hemodynamic outcome after virtual mitral valve repair using image-based CFD. International Journal of Computer Assisted Radiology and Surgery, 2018, 13, 1795-1805.	1.7	18
69	Right ventricular function in grown-up patients after correction of congenital right heart disease. Clinical Research in Cardiology, 2011, 100, 289-296.	1.5	17
70	Renal sympathetic denervation restores aortic distensibility in patients with resistant hypertension: data from a multi-center trial. Clinical Research in Cardiology, 2018, 107, 642-652.	1.5	17
71	Extraction of open-state mitral valve geometry from CT volumes. International Journal of Computer Assisted Radiology and Surgery, 2018, 13, 1741-1754.	1.7	17
72	Synthetic Database of Aortic Morphometry and Hemodynamics: Overcoming Medical Imaging Data Availability. IEEE Transactions on Medical Imaging, 2021, 40, 1438-1449.	5.4	17

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73	Surgery impacts right atrial function in tetralogy of Fallot. Journal of Thoracic and Cardiovascular Surgery, 2014, 147, 1306-1311.	0.4	16
74	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. Journal of Cardiovascular Magnetic Resonance, 2020, 22, 6.	1.6	16
75	Cast of Complex Congenital Heart Malformation in a Living Patient. Circulation, 2005, 112, e356-7.	1.6	15
76	Flow-sensitive four-dimensional magnetic resonance imaging facilitates and improves the accurate diagnosis of partial anomalous pulmonary venous drainage. Cardiology in the Young, 2011, 21, 528-535.	0.4	15
77	Exercise capacity reflects ventricular function in patients having the Fontan circulation. Cardiology in the Young, 2009, 19, 340-345.	0.4	14
78	Transcatheter creation of an aortopulmonary shunt in an animal model. Catheterization and Cardiovascular Interventions, 2010, 75, 563-569.	0.7	14
79	Model-Based Therapy Planning Allows Prediction of Haemodynamic Outcome after Aortic Valve Replacement. Scientific Reports, 2017, 7, 9897.	1.6	14
80	Impact of patient-specific LVOT inflow profiles on aortic valve prosthesis and ascending aorta hemodynamics. Journal of Computational Science, 2018, 24, 91-100.	1.5	14
81	Deep Learning Based Centerline-Aggregated Aortic Hemodynamics: An Efficient Alternative to Numerical Modeling of Hemodynamics. IEEE Journal of Biomedical and Health Informatics, 2022, 26, 1815-1825.	3.9	14
82	Beyond Pressure Gradients: The Effects of Intervention on Heart Power in Aortic Coarctation. PLoS ONE, 2017, 12, e0168487.	1.1	14
83	Validation of admittance computed left ventricular volumes against realâ€time threeâ€dimensional echocardiography in the porcine heart. Experimental Physiology, 2013, 98, 1092-1101.	0.9	13
84	Patientâ€specific requirements and clinical validation of MRIâ€based pressure mapping: A twoâ€center study in patients with aortic coarctation. Journal of Magnetic Resonance Imaging, 2019, 49, 81-89.	1.9	13
85	Variability of Myocardial Strain During Isometric Exercise in Subjects With and Without Heart Failure. Frontiers in Cardiovascular Medicine, 2020, 7, 111.	1.1	13
86	The growth and evolution of cardiovascular magnetic resonance: a 20-year history of the Society for Cardiovascular Magnetic Resonance (SCMR) annual scientific sessions. Journal of Cardiovascular Magnetic Resonance, 2018, 20, 8.	1.6	12
87	Hemodynamic Changes During Physiological and Pharmacological Stress Testing in Healthy Subjects, Aortic Stenosis and Aortic Coarctation Patientsâ€“A Systematic Review and Meta-Analysis. Frontiers in Cardiovascular Medicine, 2019, 6, 43.	1.1	12
88	Mortality and morbidity in different immunization protocols for experimental autoimmune myocarditis in rats. Acta Physiologica, 2014, 210, 889-898.	1.8	11
89	CARDIOKIN1: Computational Assessment of Myocardial Metabolic Capability in Healthy Controls and Patients With Valve Diseases. Circulation, 2021, 144, 1926-1939.	1.6	11
90	Bicuspid aortic valve disease: systematic review and meta-analysis of surgical aortic valve repair. Open Heart, 2016, 3, e000502.	0.9	10

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91	Surgical Aortic Valve Replacement: Are We Able toÂImprove Hemodynamic Outcome?. Biophysical Journal, 2019, 117, 2324-2336.	0.2	10
92	Wearable devices can predict the outcome of standardized 6-minute walk tests in heart disease. Npj Digital Medicine, 2020, 3, 92.	5.7	10
93	Assessment of hemodynamic responses to exercise in aortic coarctation using MRI-ergometry in combination with computational fluid dynamics. Scientific Reports, 2020, 10, 18894.	1.6	10
94	Evaluation of New Software for Angiographic Determination of Right Ventricular Volumes. International Journal of Cardiovascular Imaging, 2005, 21, 575-585.	0.7	9
95	Non-invasive assessment of patient-specific aortic haemodynamics from four-dimensional flow MRI data. Interface Focus, 2018, 8, 20170006.	1.5	9
96	User-dependent variability in mitral valve segmentation and its impact on CFD-computed hemodynamic parameters. International Journal of Computer Assisted Radiology and Surgery, 2019, 14, 1687-1696.	1.7	9
97	Tissue Sodium Content and Arterial Hypertension in Obese Adolescents. Journal of Clinical Medicine, 2019, 8, 2036.	1.0	9
98	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. European Journal of Cardio-thoracic Surgery, 2020, 57, 133-141.	0.6	9
99	CT-Based Analysis of Left Ventricular Hemodynamics Using Statistical Shape Modeling and Computational Fluid Dynamics. Frontiers in Cardiovascular Medicine, 0, 9, .	1.1	9
100	Comprehensive four-dimensional phase-contrast flow assessment in hemi-Fontan circulation: systemic-to-pulmonary collateral flow quantification. Cardiology in the Young, 2011, 21, 116-119.	0.4	8
101	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. American Journal of Physiology - Heart and Circulatory Physiology, 2015, 309, H45-H52.	1.5	8
102	MRI as a tool for non-invasive vascular profiling: a pilot study in patients with aortic coarctation. Expert Review of Medical Devices, 2016, 13, 103-112.	1.4	8
103	Diffuse myocardial fibrosis by T1 mapping is associated with heart failure in pediatric primary dilated cardiomyopathy. International Journal of Cardiology, 2021, 333, 219-225.	0.8	8
104	CT-Based Simulation of Left Ventricular Hemodynamics: A Pilot Study in Mitral Regurgitation and Left Ventricle Aneurysm Patients. Frontiers in Cardiovascular Medicine, 2022, 9, 828556.	1.1	8
105	Magnetic resonance and computed tomography imaging fusion for live guidance of percutaneous pulmonary valve implantation. Postepy W Kardiologii Interwencyjnej, 2018, 14, 413-421.	0.1	7
106	Virtual downsizing for decision support in mitral valve repair. International Journal of Computer Assisted Radiology and Surgery, 2019, 14, 357-371.	1.7	7
107	Towards improving the accuracy of aortic transvalvular pressure gradients: rethinking Bernoulli. Medical and Biological Engineering and Computing, 2020, 58, 1667-1679.	1.6	7
108	Computed Tomography-Based Assessment of Transvalvular Pressure Gradient in Aortic Stenosis. Frontiers in Cardiovascular Medicine, 2021, 8, 706628.	1.1	7

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109	Effects of Renal Denervation on Renal Artery Function in Humans: Preliminary Study. PLoS ONE, 2016, 11, e0150662.	1.1	7
110	Closed-chest small animal model to study myocardial infarction in an MRI environment in real time. International Journal of Cardiovascular Imaging, 2015, 31, 115-121.	0.7	6
111	Cardiac MRI in patients with complex CHD following primary or secondary implantation of MRI-conditional pacemaker system. Cardiology in the Young, 2016, 26, 306-314.	0.4	6
112	3D image fusion for live guidance of stent implantation in aortic coarctation â€“ magnetic resonance imaging and computed tomography image overlay enhances interventional technique. Postepy W Kardiologii Interwencyjnej, 2017, 3, 269-272.	0.1	6
113	Surrogates for myocardial power and power efficiency in patients with aortic valve disease. Scientific Reports, 2019, 9, 16407.	1.6	6
114	Proteomic Analysis Reveals Upregulation of ACE2 (Angiotensin-Converting Enzyme 2), the Putative SARS-CoV-2 Receptor in Pressureâ€“but Not Volume-Overloaded Human Hearts. Hypertension, 2020, 76, e41-e43.	1.3	6
115	Hemodynamic Modeling of Biological Aortic Valve Replacement Using Preoperative Data Only. Frontiers in Cardiovascular Medicine, 2020, 7, 593709.	1.1	6
116	Cardiac T1 mapping in congenital heart disease: bolus vs. infusion protocols for measurements of myocardial extracellular volume fraction. International Journal of Cardiovascular Imaging, 2017, 33, 1961-1968.	0.7	5
117	Impact of predictive medicine on therapeutic decision making: a randomized controlled trial in congenital heart disease. Npj Digital Medicine, 2019, 2, 17.	5.7	5
118	An extensible software platform for interdisciplinary cardiovascular imaging research. Computer Methods and Programs in Biomedicine, 2020, 184, 105277.	2.6	5
119	Impact of valve morphology, hypertension and age on aortic wall properties in patients with coarctation: a two-centre cross-sectional study. BMJ Open, 2020, 10, e034853.	0.8	5
120	Impact of Right Ventricular Pressure Load After Repair of Tetralogy of Fallot. Journal of the American Heart Association, 2022, 11, e022694.	1.6	5
121	Combination of Real Time Threeâ€Dimensional Echocardiography with Diagnostic Catheterization to Derive Left Ventricular Pressureâ€Volume Relations. Echocardiography, 2014, 31, 179-187.	0.3	4
122	Right ventricular energetics and power in pulmonary regurgitation vs. stenosis using fourÂdimensional phaseÂcontrast magnetic resonance. International Journal of Cardiology, 2018, 263, 165-170.	0.8	4
123	Validation of simple measures of aortic distensibility based on standard 4-chamber cine CMR: a new approach for clinical studies. Clinical Research in Cardiology, 2020, 109, 454-464.	1.5	4
124	Measuring myocardial extracellular volume of the right ventricle in patients with congenital heart disease. Scientific Reports, 2021, 11, 2679.	1.6	4
125	OsiriX plugin for integrated cardiac imaging research. , 2014, , .		3
126	Alterations in creatine metabolism observed in experimental autoimmune myocarditis using ex vivo proton magic angle spinning MRS. NMR in Biomedicine, 2015, 28, 1625-1633.	1.6	3

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127	Cardiac radiomics: an interactive approach for 4D data exploration. Current Directions in Biomedical Engineering, 2020, 6, .	0.2	3
128	Effect of Sunitinib Treatment on Skin Sodium Accumulation in Patients With Renal Cancer: a Pilot Study. Hypertension, 2022, 79, HYPERTENSIONAHA12219079.	1.3	3
129	Assessment of Cardiac Function and Myocardial Morphology Using Small Animal Look-locker Inversion Recovery (SALLI) MRI in Rats. Journal of Visualized Experiments, 2013, , .	0.2	2
130	Numerical investigation of the impact of branching vessel boundary conditions on aortic hemodynamics. Current Directions in Biomedical Engineering, 2017, 3, 321-324.	0.2	2
131	Oral everolimus inhibits neointimal proliferation in prosthetic pulmonary valved stents in pigs. Journal of Heart Valve Disease, 2008, 17, 465-72.	0.5	2
132	Midwall Fibrosis and Cardiac Mechanics: Rigid Body Rotation Is a Novel Marker of Disease Severity in Pediatric Primary Dilated Cardiomyopathy. Frontiers in Cardiovascular Medicine, 2021, 8, 810005.	1.1	2
133	Avoidable costs of stenting for aortic coarctation in the United Kingdom: an economic model. BMC Health Services Research, 2017, 17, 258.	0.9	1
134	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. Cardiology in the Young, 2018, 28, 200-207.	0.4	1
135	CMR-Based and Time-Shift Corrected Pressure Gradients Provide Good Agreement to Invasive Measurements in Aortic Coarctation. JACC: Cardiovascular Imaging, 2018, 11, 1725-1727.	2.3	1
136	Image-Based Computational Model Predicts Dobutamine-Induced Hemodynamic Changes in Patients With Aortic Coarctation. Circulation: Cardiovascular Imaging, 2021, 14, e011523.	1.3	1
137	Mesh Based Approximation of the Left Ventricle Using a Controlled Shrinkwrap Algorithm. Lecture Notes in Computer Science, 2019, , 230-239.	1.0	1
138	DL-based segmentation of endoscopic scenes for mitral valve repair. Current Directions in Biomedical Engineering, 2020, 6, .	0.2	1
139	Unsupervised Learning and Statistical Shape Modeling of the Morphometry and Hemodynamics of Coarctation of the Aorta. Lecture Notes in Computer Science, 2020, , 776-785.	1.0	1
140	An orifice shape-based reduced order model of patient-specific mitral valve regurgitation. Engineering Applications of Computational Fluid Mechanics, 2021, 15, 1868-1884.	1.5	1
141	Real-time three-dimensional echocardiography integrated with diagnostic catheterization to derive left ventricular pressure-volume relations: a feasibility study. European Heart Journal Cardiovascular Imaging, 2013, 14, 301-301.	0.5	0
142	Patientâ€specific requirements and clinical validation of MRIâ€based pressure mapping: A twoâ€center study in patients with aortic coarctation. Journal of Magnetic Resonance Imaging, 2019, 49, spcone.	1.9	0
143	Advanced Imaging of the Right Ventricle. Respiratory Medicine, 2015, , 57-75.	0.1	0
144	Risk Assessment in Pediatric Primary Cardiomyopathyâ€”The RIKADA Study. Thoracic and Cardiovascular Surgeon, 2019, 67, .	0.4	0

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145	Digitale Transformation: Dies ist erst der Anfang .... , 0, , .		0
146	Sensitivity analysis of FDAÂ´s benchmark nozzle regarding in vitro imperfections - Do we need asymmetric CFD benchmarks?. Current Directions in Biomedical Engineering, 2020, 6, 78-81.	0.2	0
147	Hemodynamic Changes During Physiological and Pharmacological Stress Testing in Patients With Heart Failure: A Systematic Review and Meta-Analysis. Frontiers in Cardiovascular Medicine, 2022, 9, 718114.	1.1	0