

# Titus Kuehne

## List of Publications by Year in Descending Order

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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	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
140	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
139	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
138	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
137	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
136	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
135	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
134	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
133	Skin Sodium Accumulates in Psoriasis and Reflects Disease Severity. <i>Journal of Investigative Dermatology</i> , <b>2021</b> ,	4.3	2
132	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
131	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
130	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
129	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
128	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
127	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
126	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
125	Cardiac radiomics: an interactive approach for 4D data exploration. <i>Current Directions in Biomedical Engineering</i> , <b>2020</b> , 6,	0.5	2

124	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	
123	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	
122	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
121	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
120	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
119	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
118	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
117	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
116	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
115	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
114	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
113	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
112	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
111	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
110	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
109	RIKADA Study Reveals Risk Factors in Pediatric Primary Cardiomyopathy. <i>Journal of the American Heart Association</i> , <b>2019</b> , 8, e012531	6	14
108	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
107	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

106	Surgical Aortic Valve Replacement: Are We Able to Improve Hemodynamic Outcome?. <i>Biophysical Journal</i> , <b>2019</b> , 117, 2324-2336	2.9	4
105	Tissue Sodium Content and Arterial Hypertension in Obese Adolescents. <i>Journal of Clinical Medicine</i> , <b>2019</b> , 8,	5.1	3
104	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
103	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
102	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
101	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
100	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
99	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
98	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
97	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
96	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
95	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
94	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
93	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
92	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
91	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
90	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
89	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

88	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
87	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
86	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
85	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
84	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
83	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
82	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
81	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
80	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
79	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
78	Balloon Dilatation and Stenting for Aortic Coarctation: A Systematic Review and Meta-Analysis. <i>Circulation: Cardiovascular Interventions</i> , <b>2016</b> , 9,	6	28
77	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
76	Myocardial deformation parameters predict outcome in patients with repaired tetralogy of Fallot. <i>Heart</i> , <b>2016</b> , 102, 209-15	5.1	92
75	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
74	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
73	Effects of Renal Denervation on Renal Artery Function in Humans: Preliminary Study. <i>PLoS ONE</i> , <b>2016</b> , 11, e0150662	3.7	6
72	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
71	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 ESCPE. <i>Heart</i> , <b>2016</b> , 102, Suppl 2, ii30-5	5.1	27

70	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
69	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
68	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
67	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
66	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
65	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
64	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
63	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
62	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
61	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
60	Advanced Imaging of the Right Ventricle. <i>Respiratory Medicine</i> , <b>2015</b> , 57-75	0.2	
59	T1 mapping in ischaemic heart disease. <i>European Heart Journal Cardiovascular Imaging</i> , <b>2014</b> , 15, 597-604	4.1	42
58	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
57	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
56	OsiriX plugin for integrated cardiac imaging research <b>2014</b> ,		3
55	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
54	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
53	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

52	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
51	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
50	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
49	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	
48	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
47	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
46	Osteosarcoma of the mobile spine. <i>Annals of Oncology</i> , <b>2013</b> , 24, 2190-5	10.3	15
45	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
44	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
43	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
42	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
41	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
40	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
39	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
38	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
37	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
36	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
35	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

34	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
33	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
32	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
31	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
30	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
29	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
28	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
27	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
26	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
25	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
24	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
23	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
22	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
21	Physical models aiding in complex congenital heart surgery. <i>Annals of Thoracic Surgery</i> , <b>2008</b> , 86, 273-7	2.7	90
20	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
19	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
18	Feasibility and efficacy of stent redilatation in aortic coarctation. <i>Catheterization and Cardiovascular Interventions</i> , <b>2008</b> , 72, 552-6	2.7	22
17	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



16	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
15	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
14	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
13	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
12	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
11	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
10	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
9	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
8	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
7	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
6	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
5	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
4	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
3	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
2	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
1	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