

Marcus Kelm

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.

41
papers

317
citations

10
h-index

16
g-index

44
ext. papers

441
ext. citations

4.7
avg, IF

2.97
L-index

#	Paper	IF	Citations
41	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> , 2022 , 9, 718114	5.6	14
40	Cardiac Phenotype and Tissue Sodium Content in Adolescents With Defects in the Melanocortin System. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2021 , 106, 2606-2616	5.6	0
39	Applications of artificial intelligence/machine learning approaches in cardiovascular medicine: a systematic review with recommendations. <i>European Heart Journal Digital Health</i> , 2021 , 2, 424-436	2.3	6
38	Transcatheter aortic valve implantation in a 13-year-old child with end-stage heart failure: a case report. <i>European Heart Journal - Case Reports</i> , 2021 , 5, ytab034	0.9	0
37	Image-Based Computational Model Predicts Dobutamine-Induced Hemodynamic Changes in Patients With Aortic Coarctation. <i>Circulation: Cardiovascular Imaging</i> , 2021 , 14, e011523	3.9	1
36	Myocardial deformation assessed among heart failure entities by cardiovascular magnetic resonance imaging. <i>ESC Heart Failure</i> , 2021 , 8, 890-897	3.7	2
35	Non-invasive CMR-Based Quantification of Myocardial Power and Efficiency Under Stress and Ischemic Conditions in Landrace Pigs. <i>Frontiers in Cardiovascular Medicine</i> , 2021 , 8, 689255	5.4	3
34	Skin Sodium Accumulates in Psoriasis and Reflects Disease Severity. <i>Journal of Investigative Dermatology</i> , 2021 ,	4.3	2
33	Variability of Myocardial Strain During Isometric Exercise in Subjects With and Without Heart Failure. <i>Frontiers in Cardiovascular Medicine</i> , 2020 , 7, 111	5.4	3
32	Wearable devices can predict the outcome of standardized 6-minute walk tests in heart disease. <i>Npj Digital Medicine</i> , 2020 , 3, 92	15.7	4
31	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> , 2020 , 76, e41-e43	8.5	3
30	Assessment of hemodynamic responses to exercise in aortic coarctation using MRI-ergometry in combination with computational fluid dynamics. <i>Scientific Reports</i> , 2020 , 10, 18894	4.9	2
29	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> , 2020 , 57, 133-141	3	2
28	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> , 2020 , 109, 454-464	6.1	3
27	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> , 2020 , 10, e034853	3	1
26	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> , 2019 , 6, 43	5.4	8
25	Impact of predictive medicine on therapeutic decision making: a randomized controlled trial in congenital heart disease. <i>Npj Digital Medicine</i> , 2019 , 2, 17	15.7	2

24	Surrogates for myocardial power and power efficiency in patients with aortic valve disease. <i>Scientific Reports</i> , 2019 , 9, 16407	4.9	4
23	Surgical Aortic Valve Replacement: Are We Able to Improve Hemodynamic Outcome?. <i>Biophysical Journal</i> , 2019 , 117, 2324-2336	2.9	4
22	Tissue Sodium Content and Arterial Hypertension in Obese Adolescents. <i>Journal of Clinical Medicine</i> , 2019 , 8,	5.1	3
21	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> , 2019 , 49, 81-89	5.6	9
20	Renal sympathetic denervation restores aortic distensibility in patients with resistant hypertension: data from a multi-center trial. <i>Clinical Research in Cardiology</i> , 2018 , 107, 642-652	6.1	13
19	Hemodynamic Evaluation of a Biological and Mechanical Aortic Valve Prosthesis Using Patient-Specific MRI-Based CFD. <i>Artificial Organs</i> , 2018 , 42, 49-57	2.6	22
18	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> , 2018 , 13, 1795-1805	3.9	12
17	Non-invasive assessment of patient-specific aortic haemodynamics from four-dimensional flow MRI data. <i>Interface Focus</i> , 2018 , 8, 20170006	3.9	6
16	Impact of patient-specific LVOT inflow profiles on aortic valve prosthesis and ascending aorta hemodynamics. <i>Journal of Computational Science</i> , 2018 , 24, 91-100	3.4	10
15	3D Shape Analysis for Coarctation of the Aorta. <i>Lecture Notes in Computer Science</i> , 2018 , 73-77	0.9	1
14	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> , 2018 , 34, e3147	2.6	16
13	CMR-Based and Time-Shift Corrected Pressure Gradients Provide Good Agreement to Invasive Measurements in Aortic Coarctation. <i>JACC: Cardiovascular Imaging</i> , 2018 , 11, 1725-1727	8.4	1
12	Avoidable costs of stenting for aortic coarctation in the United Kingdom: an economic model. <i>BMC Health Services Research</i> , 2017 , 17, 258	2.9	1
11	Model-Based Therapy Planning Allows Prediction of Haemodynamic Outcome after Aortic Valve Replacement. <i>Scientific Reports</i> , 2017 , 7, 9897	4.9	11
10	Beyond Pressure Gradients: The Effects of Intervention on Heart Power in Aortic Coarctation. <i>PLoS ONE</i> , 2017 , 12, e0168487	3.7	11
9	Longitudinal Analysis Using Personalised 3D Cardiac Models with Population-Based Priors: Application to Paediatric Cardiomyopathies. <i>Lecture Notes in Computer Science</i> , 2017 , 350-358	0.9	
8	Balloon Dilatation and Stenting for Aortic Coarctation: A Systematic Review and Meta-Analysis. <i>Circulation: Cardiovascular Interventions</i> , 2016 , 9,	6	28
7	Interactive virtual stent planning for the treatment of coarctation of the aorta. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2016 , 11, 133-44	3.9	17

6	MRI as a tool for non-invasive vascular profiling: a pilot study in patients with aortic coarctation. <i>Expert Review of Medical Devices</i> , 2016 , 13, 103-12	3.5	7
5	Bicuspid aortic valve disease: systematic review and meta-analysis of surgical aortic valve repair. <i>Open Heart</i> , 2016 , 3, e000502	3	8
4	Training neonatal cardiopulmonary resuscitation: can it be improved by playing a musical prompt? A pilot study. <i>American Journal of Perinatology</i> , 2014 , 31, 245-8	3.3	10
3	Manual neonatal ventilation training: a respiratory function monitor helps to reduce peak inspiratory pressures and tidal volumes during resuscitation. <i>Journal of Perinatal Medicine</i> , 2012 , 40, 583-6	2.7	7
2	Equipment and operator training denote manual ventilation performance in neonatal resuscitation. <i>American Journal of Perinatology</i> , 2010 , 27, 753-8	3.3	17
1	Manual ventilation devices in neonatal resuscitation: tidal volume and positive pressure-provision. <i>Resuscitation</i> , 2010 , 81, 202-5	4	57