

Marcus Kelm

List of Publications by Citations

Source: <https://exaly.com/author-pdf/9561064/marcus-kelm-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.

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	Manual ventilation devices in neonatal resuscitation: tidal volume and positive pressure-provision. <i>Resuscitation</i> , 2010 , 81, 202-5	4	57
40	Balloon Dilatation and Stenting for Aortic Coarctation: A Systematic Review and Meta-Analysis. <i>Circulation: Cardiovascular Interventions</i> , 2016 , 9,	6	28
39	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
38	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
37	Equipment and operator training denote manual ventilation performance in neonatal resuscitation. <i>American Journal of Perinatology</i> , 2010 , 27, 753-8	3.3	17
36	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
35	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
34	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
33	Model-Based Therapy Planning Allows Prediction of Haemodynamic Outcome after Aortic Valve Replacement. <i>Scientific Reports</i> , 2017 , 7, 9897	4.9	11
32	Beyond Pressure Gradients: The Effects of Intervention on Heart Power in Aortic Coarctation. <i>PLoS ONE</i> , 2017 , 12, e0168487	3.7	11
31	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
30	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
29	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
28	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
27	Bicuspid aortic valve disease: systematic review and meta-analysis of surgical aortic valve repair. <i>Open Heart</i> , 2016 , 3, e000502	3	8
26	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
25	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

24	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
23	Non-invasive assessment of patient-specific aortic haemodynamics from four-dimensional flow MRI data. <i>Interface Focus</i> , 2018 , 8, 20170006	3.9	6
22	Surrogates for myocardial power and power efficiency in patients with aortic valve disease. <i>Scientific Reports</i> , 2019 , 9, 16407	4.9	4
21	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
20	Surgical Aortic Valve Replacement: Are We Able to Improve Hemodynamic Outcome?. <i>Biophysical Journal</i> , 2019 , 117, 2324-2336	2.9	4
19	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
18	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
17	Tissue Sodium Content and Arterial Hypertension in Obese Adolescents. <i>Journal of Clinical Medicine</i> , 2019 , 8,	5.1	3
16	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
15	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
14	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
13	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
12	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
11	Myocardial deformation assessed among heart failure entities by cardiovascular magnetic resonance imaging. <i>ESC Heart Failure</i> , 2021 , 8, 890-897	3.7	2
10	Skin Sodium Accumulates in Psoriasis and Reflects Disease Severity. <i>Journal of Investigative Dermatology</i> , 2021 ,	4.3	2
9	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
8	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
7	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

6	3D Shape Analysis for Coarctation of the Aorta. <i>Lecture Notes in Computer Science</i> , 2018 , 73-77	0.9	1
5	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
4	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
3	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
2	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	
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> , 2022 , 9, 718114	5.4	1