

Karl-Ludwig Laugwitz

List of Publications by Year in descending order

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Version: 2024-02-01

77
papers

6,407
citations

218677

26
h-index

98798

67
g-index

81
all docs

81
docs citations

81
times ranked

7737
citing authors

#	ARTICLE	IF	CITATIONS
1	Successfully implemented artificial intelligence and machine learning applications in cardiology: State-of-the-art review. <i>Trends in Cardiovascular Medicine</i> , 2023, 33, 265-271.	4.9	8
2	Imaging of cardiac fibroblast activation in a patient after acute myocardial infarction using ⁶⁸ Ga-FAPI-04. <i>Journal of Nuclear Cardiology</i> , 2022, 29, 2254-2261.	2.1	39
3	Human BIN1 isoforms grow, maintain, and regenerate excitation-contraction couplons in adult rat and human stem cell-derived cardiomyocytes. <i>Cardiovascular Research</i> , 2022, 118, 1479-1491.	3.8	9
4	Platelet Surface Protein Expression and Reactivity upon TRAP Stimulation after BNT162b2 Vaccination. <i>Thrombosis and Haemostasis</i> , 2022, 122, 1706-1711.	3.4	9
5	Integration of mobile sensors in a telemedicine hospital system: remote-monitoring in COVID-19 patients. <i>Zeitschrift Fur Gesundheitswissenschaften</i> , 2022, 30, 93-97.	1.6	5
6	It Is Not Carved in Stone—The Need for a Genetic Reevaluation of Variants in Pediatric Cardiomyopathies. <i>Journal of Cardiovascular Development and Disease</i> , 2022, 9, 41.	1.6	1
7	Cell cycle defects underlie childhood-onset cardiomyopathy associated with Noonan syndrome. <i>IScience</i> , 2022, 25, 103596.	4.1	9
8	Solving the Pulmonary Hypertension Paradox in Patients With Severe Tricuspid Regurgitation by Employing Artificial Intelligence. <i>JACC: Cardiovascular Interventions</i> , 2022, 15, 381-394.	2.9	12
9	Early disruption of photoreceptor cell architecture and loss of vision in a humanized pig model of usher syndromes. <i>EMBO Molecular Medicine</i> , 2022, 14, e14817.	6.9	14
10	Dark-field chest x-ray imaging: first experience in patients with alpha1-antitrypsin deficiency. <i>European Radiology Experimental</i> , 2022, 6, 9.	3.4	5
11	Role of Reticulated Platelets in Cardiovascular Disease. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2022, 42, 527-539.	2.4	9
12	Generation of heterozygous (MRli003-A-3) and homozygous (MRli003-A-4) TRPM4 knockout human iPSC lines. <i>Stem Cell Research</i> , 2022, 60, 102731.	0.7	0
13	Generation of heterozygous (MRli003-A-5) and homozygous (MRli003-A-6) voltage-sensing knock-in human iPSC lines by CRISPR/Cas9 editing of the AAVS1 locus. <i>Stem Cell Research</i> , 2022, 61, 102785.	0.7	2
14	Generation of two human iPSC lines, HMGLi003-A and MRli028-A, carrying pathogenic biallelic variants in the PPCS gene. <i>Stem Cell Research</i> , 2022, 61, 102773.	0.7	2
15	Mass cytometry of platelet-rich plasma: a new approach to analyze platelet surface expression and reactivity. <i>Platelets</i> , 2022, 33, 841-848.	2.3	3
16	The Polyscore of autonomic parameters predicts mortality and identifies low-risk individuals among diabetic survivors of acute myocardial infarction. <i>Scientific Reports</i> , 2022, 12, 6069.	3.3	0
17	Stent Optimization Using Optical Coherence Tomography and Its Prognostic Implications After Percutaneous Coronary Intervention. <i>Journal of the American Heart Association</i> , 2022, 11, e023493.	3.7	5
18	Harnessing feature extraction capacities from a pre-trained convolutional neural network (VGG-16) for the unsupervised distinction of aortic outflow velocity profiles in patients with severe aortic stenosis. <i>European Heart Journal Digital Health</i> , 2022, 3, 153-168.	1.7	6

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19	Migratory and anti-fibrotic programmes define the regenerative potential of human cardiac progenitors. <i>Nature Cell Biology</i> , 2022, 24, 659-671.	10.3	21
20	Sorting and magnetic-based isolation of reticulated platelets from peripheral blood. <i>Platelets</i> , 2021, 32, 113-119.	2.3	11
21	Calcium scoring using virtual non-contrast images from a dual-layer spectral detector CT: comparison to true non-contrast data and evaluation of proportionality factor in a large patient collective. <i>European Radiology</i> , 2021, 31, 6193-6199.	4.5	23
22	Effect of plasma exchange on colchicine elimination in overdose – a case report. <i>Clinical Toxicology</i> , 2021, 59, 849-850.	1.9	4
23	Ten-Year Clinical Outcomes of Biodegradable Versus Durable Polymer New-Generation Drug-Eluting Stent in Patients With Coronary Artery Disease With and Without Diabetes Mellitus. <i>Journal of the American Heart Association</i> , 2021, 10, e020165.	3.7	5
24	Early Bronchoscopy Improves Extubation Rates after Out-of-Hospital Cardiac Arrest: A Retrospective Cohort Analysis. <i>Journal of Clinical Medicine</i> , 2021, 10, 3055.	2.4	1
25	SARS-CoV-2 infection is associated with a pro-thrombotic platelet phenotype. <i>Cell Death and Disease</i> , 2021, 12, 50.	6.3	77
26	Left Ventricular Pressure Volume Loop Measurements Using Conductance Catheters to Assess Myocardial Function in Mice. <i>Methods in Molecular Biology</i> , 2021, 2158, 33-41.	0.9	1
27	Radiation Dose Reduction Using a Novel Fluoroscopy System in Patients Undergoing Diagnostic Invasive Coronary Angiography. <i>Journal of Thoracic Imaging</i> , 2021, 36, 52-56.	1.5	3
28	Deciphering the Role of Wnt and Rho Signaling Pathway in iPSC-Derived ARVC Cardiomyocytes by In Silico Mathematical Modeling. <i>International Journal of Molecular Sciences</i> , 2021, 22, 2004.	4.1	14
29	Sequential Defects in Cardiac Lineage Commitment and Maturation Cause Hypoplastic Left Heart Syndrome. <i>Circulation</i> , 2021, 144, 1409-1428.	1.6	29
30	Subphenotyping of Patients With Aortic Stenosis by Unsupervised Agglomerative Clustering of Echocardiographic and Hemodynamic Data. <i>JACC: Cardiovascular Interventions</i> , 2021, 14, 2127-2140.	2.9	21
31	Truncated titin proteins and titin haploinsufficiency are targets for functional recovery in human cardiomyopathy due to <i>TTN</i> mutations. <i>Science Translational Medicine</i> , 2021, 13, eabd3079.	12.4	59
32	Assessment of Impact of Patient Recruitment Volume on Risk Profile, Outcomes, and Treatment Effect in a Randomized Trial of Ticagrelor Versus Prasugrel in Acute Coronary Syndromes. <i>Journal of the American Heart Association</i> , 2021, 10, e021418.	3.7	1
33	Generation of heterozygous (MRli003-A-1) and homozygous (MRli003-A-2) MYH10 knockout human iPSC lines. <i>Stem Cell Research</i> , 2021, 57, 102612.	0.7	0
34	Precise Correction of Heterozygous SHOX2 Mutations in hiPSCs Derived from Patients with Atrial Fibrillation via Genome Editing and Sib Selection. <i>Stem Cell Reports</i> , 2020, 15, 999-1013.	4.8	6
35	Domain zipping and unzipping modulates TRPM4's properties in human cardiac conduction disease. <i>FASEB Journal</i> , 2020, 34, 12114-12126.	0.5	7
36	Age- and Weight-Adapted Dose of Prasugrel Versus Standard Dose of Ticagrelor in Patients With Acute Coronary Syndromes. <i>Annals of Internal Medicine</i> , 2020, 173, 436-444.	3.9	44

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37	Rationale and design of the MULTISTARS AMI Trial: A randomized comparison of immediate versus staged complete revascularization in patients with ST-segment elevation myocardial infarction and multivessel disease. <i>American Heart Journal</i> , 2020, 228, 98-108.	2.7	11
38	Evaluation of Myocardial Gene Expression Profiling for Superior Diagnosis of Idiopathic Giant-Cell Myocarditis and Clinical Feasibility in a Large Cohort of Patients with Acute Cardiac Decompensation. <i>Journal of Clinical Medicine</i> , 2020, 9, 2689.	2.4	8
39	<i>Clostridioides</i> (<i>Clostridium</i>) <i>difficile</i> Pacemaker Infection. <i>Open Forum Infectious Diseases</i> , 2020, 7, ofaa487.	0.9	2
40	Hybrid PET/MR imaging for the prediction of left ventricular recovery after percutaneous revascularisation of coronary chronic total occlusions. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2020, 47, 3074-3083.	6.4	9
41	Predicting factors for long-term survival in patients with out-of-hospital cardiac arrest – A propensity score-matched analysis. <i>PLoS ONE</i> , 2020, 15, e0218634.	2.5	7
42	Risk Prediction After Myocardial Infarction by Cyclic Variation of Heart Rate, a Surrogate of Sleep-Disordered Breathing Assessed From Holter ECGs. <i>Frontiers in Physiology</i> , 2020, 10, 1570.	2.8	1
43	Screening cardiovascular patients for aortic aneurysms (SCAN) – high prevalence of abdominal aortic aneurysms in coronary heart disease patients requiring intervention. <i>Vasa - European Journal of Vascular Medicine</i> , 2020, 49, 375-381.	1.4	5
44	Coronary calcium scoring assessed on native screening chest CT imaging as predictor for outcome in COVID-19: An analysis of a hospitalized German cohort. <i>PLoS ONE</i> , 2020, 15, e0244707.	2.5	19
45	Title is missing!. , 2020, 15, e0244707.		0
46	Title is missing!. , 2020, 15, e0244707.		0
47	Title is missing!. , 2020, 15, e0244707.		0
48	Title is missing!. , 2020, 15, e0244707.		0
49	Evaluation of a shortened cardiac MRI protocol for left ventricular examinations: diagnostic performance of T1-mapping and myocardial function analysis. <i>BMC Medical Imaging</i> , 2019, 19, 57.	2.7	5
50	Transcriptome Analysis of Reticulated Platelets Reveals a Prothrombotic Profile. <i>Thrombosis and Haemostasis</i> , 2019, 119, 1795-1806.	3.4	54
51	Ticagrelor or Prasugrel in Patients with Acute Coronary Syndromes. <i>New England Journal of Medicine</i> , 2019, 381, 1524-1534.	27.0	543
52	Ten-Year Clinical Outcomes From a Trial of Three Limus-Eluting Stents With Different Polymer Coatings in Patients With Coronary Artery Disease. <i>Circulation</i> , 2019, 139, 325-333.	1.6	97
53	Randomised comparison of vascular response to biodegradable polymer sirolimus eluting and permanent polymer everolimus eluting stents: An optical coherence tomography study. <i>International Journal of Cardiology</i> , 2018, 258, 42-49.	1.7	12
54	Accuracy of Calcium Scoring calculated from contrast-enhanced Coronary Computed Tomography Angiography using a dual-layer spectral CT: A comparison of Calcium Scoring from real and virtual non-contrast data. <i>PLoS ONE</i> , 2018, 13, e0208588.	2.5	28

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55	Interplay of cell-cell contacts and RhoA/ MRTF signaling regulates cardiomyocyte identity. EMBO Journal, 2018, 37, .	7.8	66
56	Aberrant Deactivation-Induced Gain of Function in TRPM4 Mutant Is Associated with Human Cardiac Conduction Block. Cell Reports, 2018, 24, 724-731.	6.4	16
57	Cardiac MOLLI T1 mapping at 3.0 T: comparison of patient-adaptive dual-source RF and conventional RF transmission. International Journal of Cardiovascular Imaging, 2017, 33, 889-897.	1.5	2
58	Suppression of Arrhythmia by Enhancing Mitochondrial Ca ²⁺ Uptake in Catecholaminergic Ventricular Tachycardia Models. JACC Basic To Translational Science, 2017, 2, 737-747.	4.1	35
59	Immature platelets as a novel biomarker for adverse cardiovascular events in patients after non-cardiac surgery. Thrombosis and Haemostasis, 2017, 117, 1887-1895.	3.4	27
60	A new hERG allosteric modulator rescues genetic and drug-induced long-QT syndrome phenotypes in cardiomyocytes from isogenic pairs of patient induced pluripotent stem cells. EMBO Molecular Medicine, 2016, 8, 1065-1081.	6.9	77
61	Five-year outcomes from a trial of three limus-eluting stents with different polymer coatings in patients with coronary artery disease: final results from the ISAR-TEST 4 randomised trial. EuroIntervention, 2016, 11, 1372-137.	3.2	60
62	Antisense-mediated exon skipping: a therapeutic strategy for titin-based dilated cardiomyopathy. EMBO Molecular Medicine, 2015, 7, 562-576.	6.9	94
63	Blunt Cardiac Injury in the Severely Injured – A Retrospective Multicentre Study. PLoS ONE, 2015, 10, e0131362.	2.5	36
64	Impact of immature platelets on platelet response to ticagrelor and prasugrel in patients with acute coronary syndrome. European Heart Journal, 2015, 36, 3202-3210.	2.2	75
65	Dual-source RF transmission in cardiac SSFP imaging at 3 T: systematic spatial evaluation of image quality improvement compared to conventional RF transmission. Clinical Imaging, 2015, 39, 231-236.	1.5	3
66	The Isl1/Ldb1 Complex Orchestrates Genome-wide Chromatin Organization to Instruct Differentiation of Multipotent Cardiac Progenitors. Cell Stem Cell, 2015, 17, 287-299.	11.1	74
67	Direct Nkx2-5 Transcriptional Repression of Isl1 Controls Cardiomyocyte Subtype Identity. Stem Cells, 2015, 33, 1113-1129.	3.2	76
68	Induced pluripotent stem cell-derived cardiomyocytes for drug development and toxicity testing. , 2014, 143, 246-252.		80
69	Extending Human Induced Pluripotent Stem Cell Technology to Infectious Diseases. Circulation Research, 2014, 115, 537-539.	4.5	4
70	Embryonic Heart Progenitors and Cardiogenesis. Cold Spring Harbor Perspectives in Medicine, 2013, 3, a013847-a013847.	6.2	187
71	Validation of the Bleeding Academic Research Consortium Definition of Bleeding in Patients With Coronary Artery Disease Undergoing Percutaneous Coronary Intervention. Circulation, 2012, 125, 1424-1431.	1.6	207
72	Patient-Specific Induced Pluripotent Stem-Cell Models for Long-QT Syndrome. New England Journal of Medicine, 2010, 363, 1397-1409.	27.0	1,132

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73	Randomized, non-inferiority trial of three limus agent-eluting stents with different polymer coatings: the Intracoronary Stenting and Angiographic Results: Test Efficacy of 3 Limus-Eluting Stents (ISAR-TEST-4) Trial. <i>European Heart Journal</i> , 2009, 30, 2441-2449.	2.2	207
74	Isl1 cardiovascular progenitors: a single source for heart lineages?. <i>Development (Cambridge)</i> , 2008, 135, 193-205.	2.5	206
75	The Renewal and Differentiation of Isl1+ Cardiovascular Progenitors Are Controlled by a Wnt/ β^2 -Catenin Pathway. <i>Cell Stem Cell</i> , 2007, 1, 165-179.	11.1	300
76	Multipotent Embryonic Isl1+ Progenitor Cells Lead to Cardiac, Smooth Muscle, and Endothelial Cell Diversification. <i>Cell</i> , 2006, 127, 1151-1165.	28.9	944
77	Postnatal isl1+ cardioblasts enter fully differentiated cardiomyocyte lineages. <i>Nature</i> , 2005, 433, 647-653.	27.8	1,229