

# 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	Postnatal Isl1+ cardioblasts enter fully differentiated cardiomyocyte lineages. <i>Nature</i> , 2005, 433, 647-653.	27.8	1,229
2	Patient-Specific Induced Pluripotent Stem-Cell Models for Long-QT Syndrome. <i>New England Journal of Medicine</i> , 2010, 363, 1397-1409.	27.0	1,132
3	Multipotent Embryonic Isl1+ Progenitor Cells Lead to Cardiac, Smooth Muscle, and Endothelial Cell Diversification. <i>Cell</i> , 2006, 127, 1151-1165.	28.9	944
4	Ticagrelor or Prasugrel in Patients with Acute Coronary Syndromes. <i>New England Journal of Medicine</i> , 2019, 381, 1524-1534.	27.0	543
5	The Renewal and Differentiation of Isl1+ Cardiovascular Progenitors Are Controlled by a Wnt/ $\beta$ -Catenin Pathway. <i>Cell Stem Cell</i> , 2007, 1, 165-179.	11.1	300
6	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
7	Validation of the Bleeding Academic Research Consortium Definition of Bleeding in Patients With Coronary Artery Disease Undergoing Percutaneous Coronary Intervention. <i>Circulation</i> , 2012, 125, 1424-1431.	1.6	207
8	Isl1 cardiovascular progenitors: a single source for heart lineages?. <i>Development (Cambridge)</i> , 2008, 135, 193-205.	2.5	206
9	Embryonic Heart Progenitors and Cardiogenesis. <i>Cold Spring Harbor Perspectives in Medicine</i> , 2013, 3, a013847-a013847.	6.2	187
10	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
11	Antisense-mediated exon skipping: a therapeutic strategy for titin-based dilated cardiomyopathy. <i>EMBO Molecular Medicine</i> , 2015, 7, 562-576.	6.9	94
12	Induced pluripotent stem cell-derived cardiomyocytes for drug development and toxicity testing. , 2014, 143, 246-252.		80
13	A new <i>HERG</i> allosteric modulator rescues genetic and drug-induced long QT syndrome phenotypes in cardiomyocytes from isogenic pairs of patient induced pluripotent stem cells. <i>EMBO Molecular Medicine</i> , 2016, 8, 1065-1081.	6.9	77
14	SARS-CoV-2 infection is associated with a pro-thrombotic platelet phenotype. <i>Cell Death and Disease</i> , 2021, 12, 50.	6.3	77
15	Direct Nkx2-5 Transcriptional Repression of Isl1 Controls Cardiomyocyte Subtype Identity. <i>Stem Cells</i> , 2015, 33, 1113-1129.	3.2	76
16	Impact of immature platelets on platelet response to ticagrelor and prasugrel in patients with acute coronary syndrome. <i>European Heart Journal</i> , 2015, 36, 3202-3210.	2.2	75
17	The Isl1/Ldb1 Complex Orchestrates Genome-wide Chromatin Organization to Instruct Differentiation of Multipotent Cardiac Progenitors. <i>Cell Stem Cell</i> , 2015, 17, 287-299.	11.1	74
18	Interplay of cell-cell contacts and RhoA/ MRTF signaling regulates cardiomyocyte identity. <i>EMBO Journal</i> , 2018, 37, .	7.8	66

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19	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. <i>EuroIntervention</i> , 2016, 11, 1372-137.	3.2	60
20	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
21	Transcriptome Analysis of Reticulated Platelets Reveals a Prothrombotic Profile. <i>Thrombosis and Haemostasis</i> , 2019, 119, 1795-1806.	3.4	54
22	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
23	Imaging of cardiac fibroblast activation in a patient after acute myocardial infarction using <sup>68</sup> Ga-FAPI-04. <i>Journal of Nuclear Cardiology</i> , 2022, 29, 2254-2261.	2.1	39
24	Blunt Cardiac Injury in the Severely Injured – A Retrospective Multicentre Study. <i>PLoS ONE</i> , 2015, 10, e0131362.	2.5	36
25	Suppression of Arrhythmia by Enhancing Mitochondrial Ca <sup>2+</sup> Uptake in Catecholaminergic Ventricular Tachycardia Models. <i>JACC Basic To Translational Science</i> , 2017, 2, 737-747.	4.1	35
26	Sequential Defects in Cardiac Lineage Commitment and Maturation Cause Hypoplastic Left Heart Syndrome. <i>Circulation</i> , 2021, 144, 1409-1428.	1.6	29
27	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
28	Immature platelets as a novel biomarker for adverse cardiovascular events in patients after non-cardiac surgery. <i>Thrombosis and Haemostasis</i> , 2017, 117, 1887-1895.	3.4	27
29	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
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	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
32	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
33	Aberrant Deactivation-Induced Gain of Function in TRPM4 Mutant Is Associated with Human Cardiac Conduction Block. <i>Cell Reports</i> , 2018, 24, 724-731.	6.4	16
34	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
35	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
36	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

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37	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
38	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
39	Sorting and magnetic-based isolation of reticulated platelets from peripheral blood. <i>Platelets</i> , 2021, 32, 113-119.	2.3	11
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	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
42	Platelet Surface Protein Expression and Reactivity upon TRAP Stimulation after BNT162b2 Vaccination. <i>Thrombosis and Haemostasis</i> , 2022, 122, 1706-1711.	3.4	9
43	Cell cycle defects underlie childhood-onset cardiomyopathy associated with Noonan syndrome. <i>IScience</i> , 2022, 25, 103596.	4.1	9
44	Role of Reticulated Platelets in Cardiovascular Disease. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2022, 42, 527-539.	2.4	9
45	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
46	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
47	Domain zipping and unzipping modulates TRPM4's properties in human cardiac conduction disease. <i>FASEB Journal</i> , 2020, 34, 12114-12126.	0.5	7
48	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
49	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
50	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
51	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
52	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
53	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
54	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

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55	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
56	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
57	Extending Human Induced Pluripotent Stem Cell Technology to Infectious Diseases. <i>Circulation Research</i> , 2014, 115, 537-539.	4.5	4
58	Effect of plasma exchange on colchicine elimination in overdose – a case report. <i>Clinical Toxicology</i> , 2021, 59, 849-850.	1.9	4
59	Dual-source RF transmission in cardiac SSFP imaging at 3 T: systematic spatial evaluation of image quality improvement compared to conventional RF transmission. <i>Clinical Imaging</i> , 2015, 39, 231-236.	1.5	3
60	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
61	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
62	Cardiac MOLLI T1 mapping at 3.0 T: comparison of patient-adaptive dual-source RF and conventional RF transmission. <i>International Journal of Cardiovascular Imaging</i> , 2017, 33, 889-897.	1.5	2
63	<i>Clostridioides</i> ( <i>Clostridium</i> ) <i>difficile</i> Pacemaker Infection. <i>Open Forum Infectious Diseases</i> , 2020, 7, ofaa487.	0.9	2
64	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
65	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
66	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
67	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
68	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
69	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
70	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
71	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
72	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

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73	The Polyscore of autonomic parameters predicts mortality and identifies low-risk individuals among diabetic survivors of acute myocardial infarction. Scientific Reports, 2022, 12, 6069.	3.3	0
74	Title is missing!. , 2020, 15, e0244707.		0
75	Title is missing!. , 2020, 15, e0244707.		0
76	Title is missing!. , 2020, 15, e0244707.		0
77	Title is missing!. , 2020, 15, e0244707.		0