Till Keller

List of Publications by Year
in descending order

95 papers	4,539 citations	201674 27 h-index	102487 66 g-index
102 all docs	102 docs citations	102 times ranked	6191 citing authors

#	Article	IF	Citations
1	Sensitive Troponin I Assay in Early Diagnosis of Acute Myocardial Infarction. New England Journal of Medicine, 2009, 361, 868-877.	27.0	1,021
2	Serial Changes in Highly Sensitive Troponin I Assay and Early Diagnosis of Myocardial Infarction. JAMA - Journal of the American Medical Association, 2011, 306, 2684.	7.4	427
3	Copeptin Improves Early Diagnosis of Acute Myocardial Infarction. Journal of the American College of Cardiology, 2010, 55, 2096-2106.	2.8	285
4	Application of High-Sensitivity Troponin in Suspected Myocardial Infarction. New England Journal of Medicine, 2019, 380, 2529-2540.	27.0	230
5	Adenosine-to-inosine RNA editing controls cathepsin S expression in atherosclerosis by enabling HuR-mediated post-transcriptional regulation. Nature Medicine, 2016, 22, 1140-1150.	30.7	222
6	Absolute and Relative Kinetic Changes of High-Sensitivity Cardiac Troponin T in Acute Coronary Syndrome and in Patients with Increased Troponin in the Absence of Acute Coronary Syndrome. Clinical Chemistry, 2012, 58, 209-218.	3.2	215
7	Angiographic score assessment improves cardiovascular risk prediction: the clinical value of SYNTAX and Gensini application. Clinical Research in Cardiology, 2013, 102, 495-503.	3.3	138
8	A Genome-Wide Association Study Identifies LIPA as a Susceptibility Gene for Coronary Artery Disease. Circulation: Cardiovascular Genetics, 2011, 4, 403-412.	5.1	130
9	Assessment of microRNAs in patients with unstable angina pectoris. European Heart Journal, 2014, 35, 2106-2114.	2.2	124
10	Association of adiponectin with adverse outcome in coronary artery disease patients: results from the AtheroGene study. European Heart Journal, 2008, 29, 649-657.	2.2	117
11	Diagnostic accuracy of combined cardiac troponin and copeptin assessment for early rule-out of myocardial infarction: a systematic review and meta-analysis. European Heart Journal: Acute Cardiovascular Care, 2014, 3, 18-27.	1.0	98
12	Cystatin C and cardiovascular mortality in patients with coronary artery disease and normal or mildly reduced kidney function: results from the AtheroGene study. European Heart Journal, 2009, 30, 314-320.	2.2	96
13	Amyloid-Beta (1-40) and the Risk of Death From Cardiovascular Causes in Patients With Coronary Heart Disease. Journal of the American College of Cardiology, 2015, 65, 904-916.	2.8	91
14	Transcoronary gradients of vascular miRNAs and coronary atherosclerotic plaque characteristics. European Heart Journal, 2016, 37, 1738-1749.	2.2	65
15	Immediate Rule-Out of Acute Myocardial Infarction Using Electrocardiogram and Baseline High-Sensitivity Troponin I. Clinical Chemistry, 2017, 63, 394-402.	3.2	57
16	Distribution and Categorization of Left Ventricular Measurements in the General Population. Circulation: Cardiovascular Imaging, 2010, 3, 604-613.	2.6	53
17	Comparison of a 3-hour versus a 6-hour sampling-protocol using high-sensitivity cardiac troponin T for rule-out and rule-in of non-STEMI in an unselected emergency department population. International Journal of Cardiology, 2013, 167, 1134-1140.	1.7	51
18	Transcoronary Concentration Gradient of microRNA-133a and Outcome in Patients With Coronary Artery Disease. American Journal of Cardiology, 2017, 120, 15-24.	1.6	49

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19	Cardiac Troponins for the Diagnosis of Acute Myocardial Infarction in Chronic Kidney Disease. Journal of the American Heart Association, 2018, 7, e008032.	3.7	45
20	Midregional Proadrenomedullin for Prediction of Cardiovascular Events in Coronary Artery Disease: Results from the AtheroGene Study. Clinical Chemistry, 2012, 58, 226-236.	3.2	43
21	Association of MR-proadrenomedullin with cardiovascular risk factors and subclinical cardiovascular disease. Atherosclerosis, 2013, 228, 451-459.	0.8	42
22	MR-proANP and MR-proADM for risk stratification of patients with acute chest pain. Heart, 2013, 99, 388-395.	2.9	40
23	Native T1 and T2 provide distinctive signatures in hypertrophic cardiac conditions â€“ Comparison of uremic, hypertensive and hypertrophic cardiomyopathy. International Journal of Cardiology, 2020, 306, 102-108.	1.7	39
24	N-terminal proâ€“B-type natriuretic peptide for monitoring after balloon pulmonary angioplasty for chronic thromboembolic pulmonary hypertension. Journal of Heart and Lung Transplantation, 2018, 37, 639-646.	0.6	36
25	Association of high-sensitivity assayed troponin I with cardiovascular phenotypes in the general population: the population-based Gutenberg health study. Clinical Research in Cardiology, 2014, 103, 211-222.	3.3	35
26	Defining a reference population to determine the 99th percentile of a contemporary sensitive cardiac troponin I assay. International Journal of Cardiology, 2013, 167, 1423-1429.	1.7	33
27	Non-Invasive Approach for Evaluation of Pulmonary Hypertension Using Extracellular Vesicle-Associated Small Non-Coding RNA. Biomolecules, 2019, 9, 666.	4.0	30
28	Release kinetics of early ischaemic biomarkers in a clinical model of acute myocardial infarction. Heart, 2014, 100, 652-657.	2.9	29
29	Low Homoarginine Levels in the Prognosis of Patients With Acute Chest Pain. Journal of the American Heart Association, 2016, 5, e002565.	3.7	28
30	Relations of Sex to Diagnosis and Outcomes in Acute Coronary Syndrome. Journal of the American Heart Association, 2018, 7, .	3.7	28
31	Identification and regulation of the long non-coding RNA Heat2 in heart failure. Journal of Molecular and Cellular Cardiology, 2019, 126, 13-22.	1.9	27
32	GDF-15 predicts cardiovascular events in acute chest pain patients. PLoS ONE, 2017, 12, e0182314.	2.5	27
33	Precursor proadrenomedullin influences cardiomyocyte survival and local inflammation related to myocardial infarction. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E8727-E8736.	7.1	25
34	Making it More Sensitive. Circulation, 2011, 123, 1361-1363.	1.6	24
35	Analyzing the Release of Copeptin from the Heart in Acute Myocardial Infarction Using a Transcoronary Gradient Model. Scientific Reports, 2016, 6, 20812.	3.3	24
36	Improved risk stratification in prevention by use of a panel of selected circulating microRNAs. Scientific Reports, 2017, 7, 4511.	3.3	22

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37	Diagnostic and Prognostic Performance of Myeloperoxidase Plasma Levels Compared With Sensitive Troponins in Patients Admitted With Acute Onset Chest Pain. Circulation: Cardiovascular Genetics, 2012, 5, 561-568.	5.1	20
38	Right bundle branch block in patients with suspected myocardial infarction. European Heart Journal: Acute Cardiovascular Care, 2019, 8, 161-166.	1.0	20
39	Local expression of myocardial galectin-3 does not correlate with its serum levels in patients undergoing heart transplantation. Annals of Transplantation, 2013, 18, 643-650.	0.9	20
40	Galectin-3, GDF-15, and sST2 for the assessment of disease severity and therapy response in patients suffering from inoperable chronic thromboembolic pulmonary hypertension. Biomarkers, 2020, 25, 578-586.	1.9	19
41	Identification of acute myocardial infarction in patients with atrial fibrillation and chest pain with a contemporary sensitive troponin I assay. BMC Medicine, 2015, 13, 169.	5.5	18
42	Performance of the ESC 0/1-h and 0/3-h Algorithm for the Rapid Identification of Myocardial Infarction Without ST-Elevation in Patients With Diabetes. Diabetes Care, 2020, 43, 460-467.	8.6	18
43	Prognostic Value of High-Sensitivity Versus Conventional Cardiac Troponin T Assays Among Patients With Type 2 Diabetes Mellitus Undergoing Maintenance Hemodialysis. American Journal of Kidney Diseases, 2018, 71, 822-830.	1.9	17
44	Midregional pro-atrial natriuretic peptide in the general population/Insights from the Gutenberg Health Study. Clinical Chemistry and Laboratory Medicine, 2013, 51, 1125-33.	2.3	16
45	Development of renal function during staged balloon pulmonary angioplasty for inoperable chronic thromboembolic pulmonary hypertension. Scandinavian Journal of Clinical and Laboratory Investigation, 2019, 79, 268-275.	1.2	16
46	Bone marrow and plasma FGFâ€23 in heart failure patients: novel insights into the heartâ€“bone axis. ESC Heart Failure, 2019, 6, 536-544.	3.1	16
47	Detecting myocardial scar using electrocardiogram data and deep neural networks. Biological Chemistry, 2021, 402, 911-923.	2.5	16
48	Prognostic Information of Glycogen Phosphorylase Isoenzyme BB in Patients With Suspected Acute Coronary Syndrome. American Journal of Cardiology, 2012, 110, 1225-1230.	1.6	15
49	Dynamics of high-sensitivity cardiac troponin T during therapy with balloon pulmonary angioplasty for chronic thromboembolic pulmonary hypertension. PLoS ONE, 2018, 13, e0204683.	2.5	15
50	CILP1 as a biomarker for right ventricular maladaptation in pulmonary hypertension. European Respiratory Journal, 2021, 57, 1901192.	6.7	15
51	High-sensitivity troponin and novel biomarkers for the early diagnosis of non-ST-segment elevation myocardial infarction in patients with atrial fibrillation. European Heart Journal: Acute Cardiovascular Care, 2016, 5, 419-427.	1.0	14
52	Genome-Wide Association Analysis for Severity of Coronary Artery Disease Using the Gensini Scoring System. Frontiers in Cardiovascular Medicine, 2017, 4, 57.	2.4	14
53	Prognostic Value of a Novel and Established High-Sensitivity Troponin I Assay in Patients Presenting with Suspected Myocardial Infarction. Biomolecules, 2019, 9, 469.	4.0	12
54	Identifying Heart Failure in ECG Data With Artificial Intelligenceâ€"A Meta-Analysis. Frontiers in Digital Health, 2020, 2, 584555.	2.8	12

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55	Gender-specific diagnostic performance of a new high-sensitivity cardiac troponin I assay for detection of acute myocardial infarction. European Heart Journal: Acute Cardiovascular Care, 2017, 6, 60-68.	1.0	11
56	Specific biomarkers of myocardial inflammation and remodeling processes as predictors of mortality in highâ€risk patients undergoing percutaneous mitral valve repair (MitraClip). Clinical Cardiology, 2018, 41, 481-487.	1.8	11
57	The adipokine fatty-acid binding protein 4 and cardiac remodeling. Cardiovascular Diabetology, 2020, 19, 117.	6.8	11
58	SPARCL1 as a biomarker of maladaptive right ventricular remodelling in pulmonary hypertension. Biomarkers, 2020, 25, 290-295.	1.9	11
59	GDF-15 as a risk stratification biomarker for cardiovascular disease. International Journal of Cardiology, 2019, 292, 246-247.	1.7	10
60	Estimation of Values below the Limit of Detection of a Contemporary Sensitive Troponin I Assay Improves Diagnosis of Acute Myocardial Infarction. Clinical Chemistry, 2015, 61, 1197-1206.	3.2	9
61	High-Content Immunophenotyping and Hierarchical Clustering Reveal Sources of Heterogeneity and New Surface Markers of Human Blood Monocyte Subsets. Thrombosis and Haemostasis, 2020, 120, 141-155.	3.4	9
62	From heart to toe: Heart's contribution on peripheral microRNA levels. International Journal of Cardiology, 2014, 172, 616-617.	1.7	8
63	Impact of Vascular Function on Maximum Power Output in Elite Handball Athletes. Research Quarterly for Exercise and Sport, 2019, 90, 600-608.	1.4	7
64	The association of anaemia and high-sensitivity cardiac troponin and its effect on diagnosing myocardial infarction. European Heart Journal: Acute Cardiovascular Care, 2021, , .	1.0	7
65	Adjusted Troponin I for Improved Evaluation of Patients with Chest Pain. Scientific Reports, 2018, 8, 8087.	3.3	6
66	Galectinâ€3 and ST2 as predictors of therapeutic success in highâ€risk patients undergoing percutaneous mitral valve repair (MitraClip). Clinical Cardiology, 2018, 41, 1164-1169.	1.8	6
67	Predictive value of preprocedural procalcitonin for short- and long-term mortality after transfemoral transcatheter aortic valve implantation. Heart and Vessels, 2019, 34, 1993-2001.	1.2	6
68	Mid-regional pro-atrial natriuretic peptide and copeptin as indicators of disease severity and therapy response in CTEPH. ERJ Open Research, 2020, 6, 00356-2020.	2.6	6
69	Myeloid-related protein 8/14 and high-sensitivity cardiac troponin I to differentiate type 2 myocardial infarction. International Journal of Cardiology, 2020, 304, 144-147.	1.7	6
70	Osteopontin and galectin-3 as biomarkers of maladaptive right ventricular remodelingÂin pulmonary hypertension. Biomarkers in Medicine, 2021, 15, 1021-1034.	1.4	6
71	Influence of hypothermia and subsequent rewarming upon leukocyte-endothelial interactions and expression of Junctional-Adhesion-Molecules A and B. Scientific Reports, 2016, 6, 21996.	3.3	5
72	Prognostic performance of the ESC SCORE and its German recalibrated versions in primary and secondary prevention. European Journal of Preventive Cardiology, 2020, 27, 2166-2169.	1.8	5

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73	Pregnancy-associated plasma protein A â€“ a new indicator of pulmonary vascular remodeling in chronic thromboembolic pulmonary hypertension?. Respiratory Research, 2020, 21, 204.	3.6	5
74	Evaluation of cystatin C and neutrophil gelatinaseâ€associated lipocalin as predictors of mortality in patients undergoing percutaneous mitral valve repair (MitraClip). Clinical Cardiology, 2018, 41, 1474-1479.	1.8	4
75	High-sensitivity cardiac troponin assays: finally ready for prime time?. Nature Reviews Cardiology, 2019, 16, 135-136.	13.7	4
76	Application and Validation of the Tricuspid Annular Plane Systolic Excursion/Systolic Pulmonary Artery Pressure Ratio in Patients with Ischemic and Non-Ischemic Cardiomyopathy. Diagnostics, 2021, 11, 2188.	2.6	4
77	Circulating Monocyte Subsets Are Associated With Extent of Myocardial Injury but Not With Type of Myocardial Infarction. Frontiers in Cardiovascular Medicine, 2021, 8, 741890.	2.4	3
78	CILP1 as a biomarker for right ventricular dysfunction in patients with ischemic cardiomyopathy. Pulmonary Circulation, 2022, 12, e12062.	1.7	3
79	Strategies to overcome misdiagnosis of type 1 myocardial infarction using high sensitive cardiac troponin assays. Diagnosis, 2016, 3, 189-198.	1.9	2
80	A conceptual framework for establishing trust in real world intelligent systems. Cognitive Systems Research, 2021, 68, 143-155.	2.7	2
81	Urinary neutrophil gelatinase-associated lipocalin and cystatin C compared to the estimated glomerular filtration rate to predict risk in patients with suspected acute myocardial infarction. International Journal of Cardiology, 2017, 245, 6-12.	1.7	1
82	Identification of acute myocardial infarction in elderly patients using optimized highly sensitive troponin I thresholds. Biomarkers, 2019, 24, 549-555.	1.9	1
83	Definition of acute kidney injury impacts prevalence and prognosis in ACS patients undergoing coronary angiography. BMC Cardiovascular Disorders, 2021, 21, 183.	1.7	1
84	Troponin I Assay for Identification of a Significant Coronary Stenosis in Patients with Suspected Acute Myocardial Infarction and Wide QRS Complex. PLoS ONE, 2016, 11, e0154724.	2.5	1
85	Cardiac troponin determination in the diagnosis of acute myocardial infarction. Expert Review of Molecular Diagnostics, 2012, 12, 671-673.	3.1	0
86	SP308INTRA-INDIVIDUAL CHANGES IN HIGH-SENSITIVE TROPONIN I AND T LEVELS IMPROVE DIAGNOSTIC PERFORMANCE FOR ACUTE MYOCARDIAL INFARCTION IN PATIENTS WITH CHRONIC KIDNEY DISEASE. Nephrology Dialysis Transplantation, 2017, 32, iii211-iii211.	0.7	0
87	Risk Prediction in Acute Coronary Syndrome using the US vs non-US 99thPercentile Threshold of the 5thGeneration Troponin T Assay. journal of applied laboratory medicine, The, 2018, 2, 807-809.	1.3	0
88	Anti-citrullinated protein antibodies are not associated with extent of disease or prognosis in patients with coronary artery disease. Clinical Chemistry and Laboratory Medicine, 2019, 57, e159-e161.	2.3	0
89	Fractional flow reserve and frequency of PCI in patients with coronary artery disease. Herz, 2020, 45, 752-758.	1.1	0
90	An Experiment Environment for Definition, Training and Evaluation of Electrocardiogram-Based AI Models. Lecture Notes in Computer Science, 2021, , 384-388.	1.3	0

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91	Cardiac biomarkers as indicators of right ventricular dysfunction and recovery in chronic thromboembolic pulmonary hypertension patients after balloon pulmonary angioplasty therapy â€“ a cardiac magnetic resonance imaging cohort study. Pulmonary Circulation, 2021, 11, 1-10.	1.7	0
92	Novel biomarkers in evaluation of acute coronary syndrome. , 2011, , 131-138.		0
93	Abstract 19: Role of Adenosine-to-Inosine RNA Editing of Alu Elements in Human Vascular Inflammatory Diseases. Arteriosclerosis, Thrombosis, and Vascular Biology, 2016, 36, .	2.4	0
94	An Ensemble Learning Approach to Detect Cardiac Abnormalities in ECG Data Irrespective of Lead Availability. , 2021, , .		0
95	A Data Pipeline for Extraction and Processing of Electrocardiogram Recordings. , 2021, , .		0