Frank R Heinzel

List of Publications by Year
in descending order

87 papers	3,683 citations	109264 35 h-index	138417 58 g-index
88 all docs	88 docs citations	88 times ranked	5363 citing authors

#	Article	IF	Citations
1	Reduced synchrony of Ca2+ release with loss of T-tubulesâ€"a comparison to Ca2+ release in human failing cardiomyocytes. Cardiovascular Research, 2004, 62, 63-73.	1.8	265
2	Impairment of Diazoxide-Induced Formation of Reactive Oxygen Species and Loss of Cardioprotection in Connexin 43 Deficient Mice. Circulation Research, 2005, 97, 583-586.	2.0	226
3	Remodeling of T-Tubules and Reduced Synchrony of Ca ²⁺ Release in Myocytes From Chronically Ischemic Myocardium. Circulation Research, 2008, 102, 338-346.	2.0	208
4	Towards better definition, quantification and treatment of fibrosis in heart failure. A scientific roadmap by the Committee of Translational Research of the Heart Failure Association (HFA) of the European Society of Cardiology. European Journal of Heart Failure, 2019, 21, 272-285.	2.9	182
5	Heart failure and diabetes: metabolic alterations and therapeutic interventions: a state-of-the-art review from the Translational Research Committee of the Heart Failure Associationâ€"European Society of Cardiology. European Heart Journal, 2018, 39, 4243-4254.	1.0	171
6	Ultrastructural and Functional Remodeling of the Coupling Between Ca ²⁺ Influx and Sarcoplasmic Reticulum Ca ²⁺ Release in Right Atrial Myocytes From Experimental Persistent Atrial Fibrillation. Circulation Research, 2009, 105, 876-885.	2.0	160
7	Treatments targeting inotropy. European Heart Journal, 2019, 40, 3626-3644.	1.0	123
8	Myocardial hypertrophy and its role in heart failure with preserved ejection fraction. Journal of Applied Physiology, 2015, 119, 1233-1242.	1.2	104
9	Spatial and Temporal Inhomogeneities During Ca 2+ Release From the Sarcoplasmic Reticulum in Pig Ventricular Myocytes. Circulation Research, 2002, 91, 1023-1030.	2.0	100
10	Cardiovascular disease and COVID-19: a consensus paper from the ESC Working Group on Coronary Pathophysiology & Microcirculation, ESC Working Group on Thrombosis and the Association for Acute CardioVascular Care (ACVC), in collaboration with the European Heart Rhythm Association (EHRA). Cardiovascular Research, 2021, 117, 2705-2729.	1.8	95
11	Na+-dependent SR Ca2+ overload induces arrhythmogenic events in mouse cardiomyocytes with a human CPVT mutation. Cardiovascular Research, 2010, 87, 50-59.	1.8	80
12	Targeting Cardiac Hypertrophy. Journal of Cardiovascular Pharmacology, 2014, 64, 293-305.	0.8	70
13	TRPC3 contributes to regulation of cardiac contractility and arrhythmogenesis by dynamic interaction with NCX1. Cardiovascular Research, 2015, 106, 163-173.	1.8	69
14	Management of asymptomatic arrhythmias: a European Heart Rhythm Association (EHRA) consensus document, endorsed by the Heart Failure Association (HFA), Heart Rhythm Society (HRS), Asia Pacific Heart Rhythm Society (APHRS), Cardiac Arrhythmia Society of Southern Africa (CASSA), and Latin America Heart Rhythm Society (LAHRS). Europace, 2019, 21, 844-845.	0.7	68
15	European Heart Rhythm Association/Heart Failure Association joint consensus document on arrhythmias in heart failure, endorsed by the Heart Rhythm Society and the Asia Pacific Heart Rhythm Society. Europace, 2016, 18, 12-36.	0.7	66
16	Formation of reactive oxygen species at increased contraction frequency in rat cardiomyocytes. Cardiovascular Research, 2006, 71, 374-382.	1.8	65
17	Dyssynchrony of Ca2+ release from the sarcoplasmic reticulum as subcellular mechanism of cardiac contractile dysfunction. Journal of Molecular and Cellular Cardiology, 2011, 50, 390-400.	0.9	65
18	Crosstalk between L-type Ca2+ channels and the sarcoplasmic reticulum: alterations during cardiac remodelling. Cardiovascular Research, 2007, 77, 315-324.	1.8	63

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19	Cellular Mechanisms of Contractile Dysfunction in Hibernating Myocardium. Circulation Research, 2004, 94, 794-801.	2.0	62
20	Mechanisms of Postsystolic Thickening in Ischemic Myocardium: Mathematical Modelling and Comparison With Experimental Ischemic Substrates. Ultrasound in Medicine and Biology, 2007, 33, 1963-1970.	0.7	61
21	Socio-economic effects and cost saving potential of remote patient monitoring (SAVE-HM trial). International Journal of Cardiology, 2013, 169, 402-407.	0.8	61
22	Inducible Nitric Oxide Synthase Expression and Cardiomyocyte Dysfunction During Sustained Moderate Ischemia in Pigs. Circulation Research, 2008, 103, 1120-1127.	2.0	56
23	Dual SGLT-1 and SGLT-2 inhibition improves left atrial dysfunction in HFpEF. Cardiovascular Diabetology, 2021, 20, 7.	2.7	54
24	Subcellular Heterogeneity of Ryanodine Receptor Properties in Ventricular Myocytes with Low T-Tubule Density. PLoS ONE, 2011, 6, e25100.	1.1	53
25	Novel pathomechanisms of cardiomyocyte dysfunction in a model of heart failure with preserved ejection fraction. European Journal of Heart Failure, 2016, 18, 987-997.	2.9	53
26	Intracellular Dyssynchrony of Diastolic Cytosolic [Ca ²⁺] Decay in Ventricular Cardiomyocytes in Cardiac Remodeling and Human Heart Failure. Circulation Research, 2013, 113, 527-538.	2.0	50
27	JTV519 (K201) reduces sarcoplasmic reticulum Ca²⁺ leak and improves diastolic function <i>in vitro</i> in murine and human nonâ€failing myocardium. British Journal of Pharmacology, 2012, 167, 493-504.	2.7	49
28	Subclinical Abnormalities in Sarcoplasmic Reticulum Ca2+ Release Promote Eccentric Myocardial Remodeling and Pump Failure Death in Response to Pressure Overload. Journal of the American College of Cardiology, 2014, 63, 1569-1579.	1.2	47
29	Cancer Induces Cardiomyocyte Remodeling and Hypoinnervation in the Left Ventricle of the Mouse Heart. PLoS ONE, 2011, 6, e20424.	1.1	46
30	Vascular Bioactivation of Nitroglycerin Is Catalyzed by Cytosolic Aldehyde Dehydrogenase-2. Circulation Research, 2012, 110, 385-393.	2.0	43
31	Adipose tissue ATGL modifies the cardiac lipidome in pressure-overload-induced left ventricular failure. PLoS Genetics, 2018, 14, e1007171.	1.5	42
32	Pathophysiological and therapeutic implications in patients with atrial fibrillation and heart failure. Heart Failure Reviews, 2018, 23, 27-36.	1.7	40
33	EHRA White Paper: knowledge gaps in arrhythmia managementâ€"status 2019. Europace, 2019, 21, 993-994.	0.7	40
34	Parathyroid hormone-related peptide improves contractile function of stunned myocardium in rats and pigs. American Journal of Physiology - Heart and Circulatory Physiology, 2003, 284, H49-H55.	1.5	36
35	Urocortin II enhances contractility in rabbit ventricular myocytes via CRF2 receptor-mediated stimulation of protein kinase A. Cardiovascular Research, 2006, 69, 402-411.	1.8	36
36	AMP-Activated Protein Kinase Î±1 Regulates Cardiac Gap Junction Protein Connexin 43 and Electrical Remodeling Following Pressure Overload. Cellular Physiology and Biochemistry, 2015, 35, 406-418.	1.1	36

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37	Atrial remodelling in heart failure: recent developments and relevance for heart failure with preserved ejection fraction. ESC Heart Failure, 2018, 5, 211-221.	1.4	36
38	Extent and magnitude of low-voltage areas assessed by ultra-high-density electroanatomical mapping correlate with left atrial function. International Journal of Cardiology, 2018, 272, 108-112.	0.8	33
39	Critical appraisal of technologies to assess electrical activity during atrial fibrillation: a position paper from the European Heart Rhythm Association and European Society of Cardiology Working Group on eCardiology in collaboration with the Heart Rhythm Society, Asia Pacific Heart Rhythm Society, Latin American Heart Rhythm Society and Computing in Cardiology. Europace, 2022, 24, 313-330.	0.7	33
40	European Heart Rhythm Association/Heart Failure Association joint consensus document on arrhythmias in heart failure, endorsed by the Heart Rhythm Society and the Asia Pacific Heart Rhythm Society. European Journal of Heart Failure, 2015, 17, 848-874.	2.9	32
41	Sex and Heart Failure with Preserved Ejection Fraction: From Pathophysiology to Clinical Studies. Journal of Clinical Medicine, 2019, 8, 792.	1.0	32
42	Crosstalk between FGF23- and angiotensin II-mediated Ca2+ signaling in pathological cardiac hypertrophy. Cellular and Molecular Life Sciences, 2018, 75, 4403-4416.	2.4	31
43	15-deoxy-Î”12,14-PGJ2 promotes inflammation and apoptosis in cardiomyocytes via the DP2/MAPK/TNFÎ± axis. International Journal of Cardiology, 2014, 173, 472-480.	0.8	29
44	Cellular mechanisms of metabolic syndrome-related atrial decompensation in a rat model of HFpEF. Journal of Molecular and Cellular Cardiology, 2018, 115, 10-19.	0.9	24
45	ESC working group on cardiac cellular electrophysiology position paper: relevance, opportunities, and limitations of experimental models for cardiac electrophysiology research. Europace, 2021, 23, 1795-1814.	0.7	24
46	Stimulation of the left ventricle through the coronary sinus with a newly developed â€˜over the wireâ€™ lead system â€” early experiences with lead handling and positioning. Europace, 2001, 3, 317-323.	0.7	20
47	Right ventricular function and mechanics in chemotherapy- and radiotherapy-naÃ¯ve cancer patients. International Journal of Cardiovascular Imaging, 2018, 34, 1581-1587.	0.7	20
48	Longâ€term effects of Na⁺/Ca²⁺ exchanger inhibition with ORMâ€11035 improves cardiac function and remodelling without lowering blood pressure in a model of heart failure with preserved ejection fraction. European Journal of Heart Failure, 2019, 21, 1543-1552.	2.9	20
49	cAMPâ€•and Ca²⁺/calmodulinâ€dependent protein kinases mediate inotropic, lusitropic and arrhythmogenic effects of urocortin 2 in mouse ventricular myocytes. British Journal of Pharmacology, 2011, 162, 544-556.	2.7	19
50	Arterial hypertension drives arrhythmia progression via specific structural remodeling in a porcine model of atrial fibrillation. Heart Rhythm, 2018, 15, 1328-1336.	0.3	19
51	CHA2DS2-VASc score and blood biomarkers to identify patients with atrial high-rate episodes and paroxysmal atrial fibrillation. Europace, 2016, 19, euw101.	0.7	18
52	Are Contemporary Smartwatches and Mobile Phones Safe for Patients With Cardiovascular Implantable Electronic Devices?. JACC: Clinical Electrophysiology, 2020, 6, 1158-1166.	1.3	18
53	Oxidative Stress and Inflammatory Modulation of Ca2+ Handling in Metabolic HFpEF-Related Left Atrial Cardiomyopathy. Antioxidants, 2020, 9, 860.	2.2	17
54	The role of fibroblast â€“ Cardiomyocyte interaction for atrial dysfunction in HFpEF and hypertensive heart disease. Journal of Molecular and Cellular Cardiology, 2019, 131, 53-65.	0.9	15

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55	Variations in local calcium signaling in adjacent cardiac myocytes of the intact mouse heart detected with two-dimensional confocal microscopy. Frontiers in Physiology, 2014, 5, 517.	1.3	14
56	AMP-activated protein kinase Î±1-sensitive activation of AP-1 in cardiomyocytes. Journal of Molecular and Cellular Cardiology, 2016, 97, 36-43.	0.9	14
57	Left ventricular dysfunction in heart failure with preserved ejection fractionâ€"molecular mechanisms and impact on right ventricular function. Cardiovascular Diagnosis and Therapy, 2020, 10, 1541-1560.	0.7	14
58	The effect of iron deficiency on cardiac resynchronization therapy: results from the RIDEâ€CRT Study. ESC Heart Failure, 2020, 7, 1072-1084.	1.4	13
59	Rightâ€ventricular dysfunction in HFpEF is linked to altered cardiomyocyte Ca²⁺ homeostasis and myofilament sensitivity. ESC Heart Failure, 2021, 8, 3130-3144.	1.4	12
60	Cpxm2 as a novel candidate for cardiac hypertrophy and failure in hypertension. Hypertension Research, 2022, 45, 292-307.	1.5	12
61	The future of heart failure with preserved ejection fraction. Herz, 2022, 47, 308-323.	0.4	12
62	Speckle Tracking Analysis Reveals Altered Left Atrial and Ventricular Myocardial Deformation in Patients with End-Stage Liver Disease. Journal of Clinical Medicine, 2021, 10, 897.	1.0	11
63	COVID19-associated cardiomyocyte dysfunction, arrhythmias and the effect of Canakinumab. PLoS ONE, 2021, 16, e0255976.	1.1	11
64	Magnetic fieldâ€"induced interactions between phones containing magnets and cardiovascular implantable electronic devices: Flip it to be safe?. Heart Rhythm, 2022, 19, 372-380.	0.3	10
65	The force stability of tissue contact and lesion size index during radiofrequency ablation: An exâ€vivo study. PACE - Pacing and Clinical Electrophysiology, 2020, 43, 327-331.	0.5	9
66	Mild hypothermia (33Â°C) increases the inducibility of atrial fibrillation: An <i>in vivo</i> large animal model study. PACE - Pacing and Clinical Electrophysiology, 2018, 41, 720-726.	0.5	8
67	Cellular contribution to left and right atrial dysfunction in chronic arterial hypertension in pigs. ESC Heart Failure, 2021, 8, 151-161.	1.4	6
68	Implications of SGLT Inhibition on Redox Signalling in Atrial Fibrillation. International Journal of Molecular Sciences, 2021, 22, 5937.	1.8	6
69	Isolation of Atrial Cardiomyocytes from a Rat Model of Metabolic Syndrome-related Heart Failure with Preserved Ejection Fraction. Journal of Visualized Experiments, 2018, , .	0.2	5
70	Effects of different exercise modalities on cardiac dysfunction in heart failure with preserved ejection fraction. ESC Heart Failure, 2021, 8, 1806-1818.	1.4	5
71	Wearable cardioverterâ€defibrillator: friend or foe in suspected myocarditis?. ESC Heart Failure, 2021, 8, 2591-2596.	1.4	5
72	Left ventricular clefts â€" incidental finding or pathologic sign of Wilsonâ€™s disease?. Orphanet Journal of Rare Diseases, 2019, 14, 244.	1.2	4

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73	Remote Ischemic Preconditioning Neither Improves Survival nor Reduces Myocardial or Kidney Injury in Patients Undergoing Transcatheter Aortic Valve Implantation (TAVI). Journal of Clinical Medicine, 2020, 9, 160.	1.0	4
74	Alterations in excitation-contraction coupling in chronically ischemic or hibernating myocardium. Experimental and Clinical Cardiology, 2005, 10, 142-5.	1.3	4
75	The infarction zone rather than the noninfarcted remodeling zone overexpresses angiotensin II receptor type 1 and is the main source of ventricular atrial natriuretic peptide. Cardiovascular Pathology, 2020, 44, 107160.	0.7	3
76	Evaluation of Myocardial Strain Using Cardiac Magnetic Resonance in Patients with Wilsonâ€™s Disease. Journal of Clinical Medicine, 2021, 10, 335.	1.0	3
77	Impaired Relaxation and Reduced Lusitropic Reserve in Atrial Myocardium in the Obese Patients. Frontiers in Cardiovascular Medicine, 2021, 8, 739907.	1.1	3
78	Hypochlorite-Modified LDL Induces Arrhythmia and Contractile Dysfunction in Cardiomyocytes. Antioxidants, 2022, 11, 25.	2.2	3
79	Spatio-temporal regulation of calpain activity after experimental myocardial infarction in vivo. Biochemistry and Biophysics Reports, 2021, 28, 101162.	0.7	2
80	Effects of JTV519 (K201) on Na+- and Ca2+ Overload-Induced Arrhythmogenic Ca2+ Release in Mouse Cardiac Myocytes. Biophysical Journal, 2011, 100, 187a.	0.2	1
81	Growing a healthier heart. Acta Physiologica, 2016, 216, 383-385.	1.8	1
82	CHA2DS2-VASc score and blood biomarkers to identify patients with atrial high rate episodes and paroxysmal atrial fibrillation: the role of TIMP-4 regulationâ€"Authorsâ€™ reply. Europace, 2018, 20, 1229-1230.	0.7	1
83	Effects of BNP and Sacubitrilat/Valsartan on Atrial Functional Reserve and Arrhythmogenesis in Human Myocardium. Frontiers in Cardiovascular Medicine, 0, 9, .	1.1	1
84	Response to letter by Tsikas et al.. International Journal of Cardiology, 2014, 177, 140-141.	0.8	0
85	Commercially Available Human-Induced Pluripotent Stem Cellâ€"Derived Cardiomyocytes. Circulation: Cardiovascular Genetics, 2017, 10, .	5.1	0
86	The essential challenges of salt-sensitivity of blood pressure. Journal of Molecular and Cellular Cardiology, 2021, 151, 1-2.	0.9	0
87	Abstract 16781: Dyssynchronous Ca Removal in Atrial Cardiac Myocytes From Failing Hearts. Circulation, 2015, 132, .	1.6	0