

# Maike Krenz

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

44  
papers

3,237  
citations

25  
h-index

46  
g-index

46  
ext. papers

3,782  
ext. citations

6.2  
avg, IF

5.25  
L-index

#	Paper	IF	Citations
44	Friend or foe? Unraveling the complex roles of protein tyrosine phosphatases in cardiac disease and development.. <i>Cellular Signalling</i> , <b>2022</b> , 110297	4.9	
43	TRPV4 increases cardiomyocyte calcium cycling and contractility yet contributes to damage in the aged heart following hypoosmotic stress. <i>Cardiovascular Research</i> , <b>2019</b> , 115, 46-56	9.9	29
42	Western Diet-Fed, Aortic-Banded Ossabaw Swine: A Preclinical Model of Cardio-Metabolic Heart Failure. <i>JACC Basic To Translational Science</i> , <b>2019</b> , 4, 404-421	8.7	25
41	The novel cyclophilin-D-interacting protein FASTKD1 protects cells against oxidative stress-induced cell death. <i>American Journal of Physiology - Cell Physiology</i> , <b>2019</b> , 317, C584-C599	5.4	2
40	Heterozygous deletion of AKT1 rescues cardiac contractility, but not hypertrophy, in a mouse model of Noonan Syndrome with Multiple Lentigines. <i>Journal of Molecular and Cellular Cardiology</i> , <b>2017</b> , 112, 83-90	5.8	3
39	Metformin inhibits aldosterone-induced cardiac fibroblast activation, migration and proliferation in vitro, and reverses aldosterone+salt-induced cardiac fibrosis in vivo. <i>Journal of Molecular and Cellular Cardiology</i> , <b>2016</b> , 98, 95-102	5.8	38
38	Histone deacetyltransferase inhibitors Trichostatin A and Mocetinostat differentially regulate MMP9, IL-18 and RECK expression, and attenuate Angiotensin II-induced cardiac fibroblast migration and proliferation. <i>Hypertension Research</i> , <b>2016</b> , 39, 709-716	4.7	14
37	Saxagliptin and Tadalafil Differentially Alter Cyclic Guanosine Monophosphate (cGMP) Signaling and Left Ventricular Function in Aortic-Banded Mini-Swine. <i>Journal of the American Heart Association</i> , <b>2016</b> , 5, e003277	6	20
36	The Nox1/4 Dual Inhibitor GKT137831 or Nox4 Knockdown Inhibits Angiotensin-II-Induced Adult Mouse Cardiac Fibroblast Proliferation and Migration. AT1 Physically Associates With Nox4. <i>Journal of Cellular Physiology</i> , <b>2016</b> , 231, 1130-41	7	44
35	Ischemia/Reperfusion. <i>Comprehensive Physiology</i> , <b>2016</b> , 7, 113-170	7.7	354
34	Elevated Ca <sup>2+</sup> transients and increased myofibrillar power generation cause cardiac hypercontractility in a model of Noonan syndrome with multiple lentigines. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>2015</b> , 308, H1086-95	5.2	10
33	The Q510E mutation in Shp2 perturbs heart valve development by increasing cell migration. <i>Journal of Applied Physiology</i> , <b>2015</b> , 118, 124-31	3.7	8
32	SHP-2 deletion in postmigratory neural crest cells results in impaired cardiac sympathetic innervation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2014</b> , 111, E1374-82	11.5	12
31	Proteomic mapping of proteins released during necrosis and apoptosis from cultured neonatal cardiac myocytes. <i>American Journal of Physiology - Cell Physiology</i> , <b>2014</b> , 306, C639-47	5.4	19
30	A new twist on an old idea part 2: cyclosporine preserves normal mitochondrial but not cardiomyocyte function in mini-swine with compensated heart failure. <i>Physiological Reports</i> , <b>2014</b> , 2, e12050	2.6	19
29	The protein tyrosine phosphatase Shp2 is required for the generation of oligodendrocyte progenitor cells and myelination in the mouse telencephalon. <i>Journal of Neuroscience</i> , <b>2014</b> , 34, 3767-78	6.6	35
28	Heart failure with preserved ejection fraction: chronic low-intensity interval exercise training preserves myocardial O <sub>2</sub> balance and diastolic function. <i>Journal of Applied Physiology</i> , <b>2013</b> , 114, 131-47	3.7	50

27	Cardiac-specific hexokinase 2 overexpression attenuates hypertrophy by increasing pentose phosphate pathway flux. <i>Journal of the American Heart Association</i> , <b>2013</b> , 2, e000355	6	34
26	Cell Survival Programs and Ischemia/Reperfusion: Hormesis, Preconditioning, and Cardioprotection. <i>Colloquium Series on Integrated Systems Physiology From Molecule To Function</i> , <b>2013</b> , 5, 1-122		3
25	New approaches to prevent LEOPARD syndrome-associated cardiac hypertrophy by specifically targeting Shp2-dependent signaling. <i>Journal of Biological Chemistry</i> , <b>2013</b> , 288, 18335-44	5.4	16
24	Development of the elastin network in the walls of resistance arteries from neonatal and adult rats. <i>FASEB Journal</i> , <b>2013</b> , 27, 679.8	0.9	
23	Moderate ethanol ingestion and cardiovascular protection: from epidemiologic associations to cellular mechanisms. <i>Journal of Molecular and Cellular Cardiology</i> , <b>2012</b> , 52, 93-104	5.8	112
22	Cell biology of ischemia/reperfusion injury. <i>International Review of Cell and Molecular Biology</i> , <b>2012</b> , 298, 229-317	6	1109
21	The PTPN11 loss-of-function mutation Q510E-Shp2 causes hypertrophic cardiomyopathy by dysregulating mTOR signaling. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>2012</b> , 302, H231-43	5.2	52
20	TEAD-1 overexpression in the mouse heart promotes an age-dependent heart dysfunction. <i>Journal of Biological Chemistry</i> , <b>2010</b> , 285, 13721-35	5.4	37
19	Cardiac myosin heavy chain isoform exchange alters the phenotype of cTnT-related cardiomyopathies in mouse hearts. <i>Journal of Molecular and Cellular Cardiology</i> , <b>2010</b> , 48, 979-88	5.8	26
18	Role of ERK1/2 signaling in congenital valve malformations in Noonan syndrome. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2008</b> , 105, 18930-5	11.5	64
17	Distribution and structure-function relationship of myosin heavy chain isoforms in the adult mouse heart. <i>Journal of Biological Chemistry</i> , <b>2007</b> , 282, 24057-64	5.4	33
16	Shifts in the myosin heavy chain isozymes in the mouse heart result in increased energy efficiency. <i>Journal of Molecular and Cellular Cardiology</i> , <b>2007</b> , 42, 214-21	5.8	25
15	Mediating ERK 1/2 signaling rescues congenital heart defects in a mouse model of Noonan syndrome. <i>Journal of Clinical Investigation</i> , <b>2007</b> , 117, 2123-32	15.9	82
14	Inhibition of ischemic cardiomyocyte apoptosis through targeted ablation of Bnip3 restrains postinfarction remodeling in mice. <i>Journal of Clinical Investigation</i> , <b>2007</b> , 117, 2825-33	15.9	238
13	Noonan syndrome mutation Q79R in Shp2 increases proliferation of valve primordia mesenchymal cells via extracellular signal-regulated kinase 1/2 signaling. <i>Circulation Research</i> , <b>2005</b> , 97, 813-20	15.7	47
12	Forced expression of alpha-myosin heavy chain in the rabbit ventricle results in cardioprotection under cardiomyopathic conditions. <i>Circulation</i> , <b>2005</b> , 111, 2339-46	16.7	65
11	Impact of beta-myosin heavy chain expression on cardiac function during stress. <i>Journal of the American College of Cardiology</i> , <b>2004</b> , 44, 2390-7	15.1	188
10	Protective and anti-protective effects of acute ethanol exposure in myocardial ischemia/reperfusion. <i>Pathophysiology</i> , <b>2004</b> , 10, 113-9	1.8	8

9	Analysis of myosin heavy chain functionality in the heart. <i>Journal of Biological Chemistry</i> , <b>2003</b> , 278, 17466-74	87
8	Molecular mechanics of mouse cardiac myosin isoforms. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>2002</b> , 283, H1446-54	5.2 77
7	Opening of ATP-sensitive potassium channels causes generation of free radicals in vascular smooth muscle cells. <i>Basic Research in Cardiology</i> , <b>2002</b> , 97, 365-73	11.8 117
6	The protective and anti-protective effects of ethanol in a myocardial infarct model. <i>Annals of the New York Academy of Sciences</i> , <b>2002</b> , 957, 103-14	6.5 15
5	Dose-response relationships of the protective and antiprotective effects of acute ethanol exposure in isolated rabbit hearts. <i>Heart Disease (Hagerstown, Md)</i> , <b>2002</b> , 4, 276-81	10
4	Acute ethanol exposure fails to elicit preconditioning-like protection in in situ rabbit hearts because of its continued presence during ischemia. <i>Journal of the American College of Cardiology</i> , <b>2001</b> , 37, 601-7	15.1 42
3	Acute alcohol-induced protection against infarction in rabbit hearts: differences from and similarities to ischemic preconditioning. <i>Journal of Molecular and Cellular Cardiology</i> , <b>2001</b> , 33, 2015-22	5.8 34
2	Gates of fate. <i>Journal of Molecular and Cellular Cardiology</i> , <b>2001</b> , 33, 2079-82	5.8 0
1	Menadione mimics the infarct-limiting effect of preconditioning in isolated rat hearts. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>2001</b> , 281, H590-5	5.2 27