Kenneth B Margulies

List of Publications by Year in Descending Order

131 papers	5,399 citations	38 h-index	71 g-index
139 ext. papers	7,607 ext. citations	10.7 avg, IF	5.63 L-index

#	Paper	IF	Citations
131	TRAF2, an Innate Immune Sensor, Reciprocally Regulates Mitophagy and Inflammation to Maintain Cardiac Myocyte Homeostasis.. *JACC Basic To Translational Science*, **2022**, 7, 223-243	8.7	2
130	How to Apply Translational Models to Probe Mechanisms of Cardiotoxicity.. *JACC: CardioOncology*, **2022**, 4, 130-135	3.8	0
129	Transcriptional, Post-Transcriptional, and Post-Translational Mechanisms Rewrite the Tubulin Code During Cardiac Hypertrophy and Failure.. *Frontiers in Cell and Developmental Biology*, **2022**, 10, 837486	5.7	1
128	Computational Analysis of Routine Biopsies Improves Diagnosis and Prediction of Cardiac Allograft Vasculopathy.. *Circulation*, **2022**,	16.7	1
127	Defects in the Proteome and Metabolome in Human Hypertrophic Cardiomyopathy.. *Circulation: Heart Failure*, **2022**, CIRCHEARTFAILURE121009521	7.6	1
126	Glutaminolysis is Essential for Myofibroblast Persistence and In Vivo Targeting Reverses Fibrosis and Cardiac Dysfunction in Heart Failure. *Circulation*, **2022**, 145, 1625-1628	16.7	1
125	Truncated titin proteins in dilated cardiomyopathy. *Science Translational Medicine*, **2021**, 13, eabd7287	17.5	3
124	Effect of Treatment With Sacubitril/Valsartan in Patients With Advanced Heart Failure and Reduced Ejection Fraction: A Randomized Clinical Trial. *JAMA Cardiology*, **2021**,	16.2	7
123	Debulking SARS-CoV-2 in saliva using angiotensin converting enzyme 2 in chewing gum to decrease oral virus transmission and infection. *Molecular Therapy*, **2021**,	11.7	3
122	Acute Echocardiographic Effects of Exogenous Ketone Administration in Healthy Participants. *Journal of the American Society of Echocardiography*, **2021**,	5.8	4
121	Comparison of Exogenous Ketone Administration versus Dietary Carbohydrate Restriction on Myocardial Glucose Suppression: A Crossover Clinical Trial. *Journal of Nuclear Medicine*, **2021**,	8.9	2
120	Label-Free Visualization and Quantification of Biochemical Markers of Atherosclerotic Plaque Progression Using Intravascular Fluorescence Lifetime. *JACC: Cardiovascular Imaging*, **2021**, 14, 1832-1842	8.4	3
119	Cardiac retinoic acid levels decline in heart failure. *JCI Insight*, **2021**, 6,	9.9	4
118	Characteristics and Outcomes of COVID-19 in Patients on Left Ventricular Assist Device Support. *Circulation: Heart Failure*, **2021**, 14, e007957	7.6	10
117	Multimodality assessment of heart failure with preserved ejection fraction skeletal muscle reveals differences in the machinery of energy fuel metabolism. *ESC Heart Failure*, **2021**, 8, 2698-2712	3.7	6
116	Chronobiology of Natriuretic Peptides and Blood Pressure in Lean and Obese Individuals. *Journal of the American College of Cardiology*, **2021**, 77, 2291-2303	15.1	4
115	Genetic and Phenotypic Landscape of Peripartum Cardiomyopathy. *Circulation*, **2021**, 143, 1852-1862	16.7	11

114	Association of Premature Immune Aging and Cytomegalovirus After Solid Organ Transplant. *Frontiers in Immunology*, **2021**, 12, 661551	8.4	2
113	S-Nitrosylation of Histone Deacetylase 2 by Neuronal Nitric Oxide Synthase as a Mechanism of Diastolic Dysfunction. *Circulation*, **2021**, 143, 1912-1925	16.7	7
112	An automated computational image analysis pipeline for histological grading of cardiac allograft rejection. *European Heart Journal*, **2021**, 42, 2356-2369	9.5	13
111	Pathogenic LMNA variants disrupt cardiac lamina-chromatin interactions and de-repress alternative fate genes. *Cell Stem Cell*, **2021**, 28, 938-954.e9	18	23
110	Growth differentiation factor-15, treatment with liraglutide, and clinical outcomes among patients with heart failure. *ESC Heart Failure*, **2021**, 8, 2608-2616	3.7	2
109	Circadian Pattern of Ion Channel Gene Expression in Failing Human Hearts. *Circulation: Arrhythmia and Electrophysiology*, **2021**, 14, e009254	6.4	1
108	Myocardial Gene Expression Signatures in Human Heart Failure With Preserved Ejection Fraction. *Circulation*, **2021**, 143, 120-134	16.7	38
107	Whole-Transcriptome Profiling of Human Heart Tissues Reveals the Potential Novel Players and Regulatory Networks in Different Cardiomyopathy Subtypes of Heart Failure. *Circulation Genomic and Precision Medicine*, **2021**, 14, e003142	5.2	2
106	Evolution of Cytomegalovirus-Responsive T Cell Clonality following Solid Organ Transplantation. *Journal of Immunology*, **2021**, 207, 2077-2085	5.3	2
105	The genomics of heart failure: design and rationale of the HERMES consortium. *ESC Heart Failure*, **2021**,	3.7	1
104	Coronavirus disease 2019 in heart transplant recipients: Risk factors, immunosuppression, and outcomes. *Journal of Heart and Lung Transplantation*, **2021**, 40, 926-935	5.8	7
103	Functional Consequences of Memory Inflation after Solid Organ Transplantation. *Journal of Immunology*, **2021**, 207, 2086-2095	5.3	2
102	Pulmonary artery pulsatility index predicts right ventricular myofilament dysfunction in advanced human heart failure. *European Journal of Heart Failure*, **2021**, 23, 339-341	12.3	1
101	The effect of transfusion of blood products on ventricular assist device support outcomes. *ESC Heart Failure*, **2020**, 7, 3573-3581	3.7	4
100	Epigenetic Analyses of Human Left Atrial Tissue Identifies Gene Networks Underlying Atrial Fibrillation. *Circulation Genomic and Precision Medicine*, **2020**, 13, e003085	5.2	7
99	Noncanonical WNT Activation in Human Right Ventricular Heart Failure. *Frontiers in Cardiovascular Medicine*, **2020**, 7, 582407	5.4	1
98	Effects of Liraglutide on Worsening Renal Function Among Patients With Heart Failure With Reduced Ejection Fraction: Insights From the FIGHT Trial. *Circulation: Heart Failure*, **2020**, 13, e006758	7.6	6
97	Implications of Altered Ketone Metabolism and Therapeutic Ketosis in Heart Failure. *Circulation*, **2020**, 141, 1800-1812	16.7	44

96	Transcriptional and Cellular Diversity of the Human Heart. *Circulation*, **2020**, 142, 466-482	16.7	124
95	Epigenomes of Human Hearts Reveal New Genetic Variants Relevant for Cardiac Disease and Phenotype. *Circulation Research*, **2020**, 127, 761-777	15.7	8
94	Multiple Plasma Biomarkers for Risk Stratification in Patients With Heart Failure and Preserved Ejection Fraction. *Journal of the American College of Cardiology*, **2020**, 75, 1281-1295	15.1	49
93	Peripheral Determinants of Oxygen Utilization in Heart Failure With Preserved Ejection Fraction: Central Role of Adiposity. *JACC Basic To Translational Science*, **2020**, 5, 211-225	8.7	12
92	Reduced Apolipoprotein M and Adverse Outcomes Across the Spectrum of Human Heart Failure. *Circulation*, **2020**, 141, 1463-1476	16.7	17
91	Myocyte-Specific Upregulation of in Cardiovascular Disease: Implications for SARS-CoV-2-Mediated Myocarditis. *Circulation*, **2020**, 142, 708-710	16.7	47
90	Microtubules Increase Diastolic Stiffness in Failing Human Cardiomyocytes and Myocardium. *Circulation*, **2020**, 141, 902-915	16.7	23
89	In Situ Immune Profiling of Heart Transplant Biopsies Improves Diagnostic Accuracy and Rejection Risk Stratification. *JACC Basic To Translational Science*, **2020**, 5, 328-340	8.7	9
88	Myocyte Specific Upregulation of ACE2 in Cardiovascular Disease: Implications for SARS-CoV-2 mediated myocarditis **2020**,		8
87	Genome-wide association and Mendelian randomisation analysis provide insights into the pathogenesis of heart failure. *Nature Communications*, **2020**, 11, 163	17.4	140
86	Clinical Phenogroups in Heart Failure With Preserved Ejection Fraction: Detailed Phenotypes, Prognosis, and Response to Spironolactone. *JACC: Heart Failure*, **2020**, 8, 172-184	7.9	86
85	Investigating Origins of FLIm Contrast in Atherosclerotic Lesions Using Combined FLIm-Raman Spectroscopy. *Frontiers in Cardiovascular Medicine*, **2020**, 7, 122	5.4	3
84	Prospective Multicenter Study of Myocardial Recovery Using Left Ventricular Assist Devices (RESTAGE-HF [Remission from Stage D Heart Failure]): Medium-Term and Primary End Point Results. *Circulation*, **2020**, 142, 2016-2028	16.7	34
83	Assigning Distal Genomic Enhancers to Cardiac Disease-Causing Genes. *Circulation*, **2020**, 142, 910-912	16.7	1
82	C-type natriuretic peptide co-ordinates cardiac structure and function. *European Heart Journal*, **2020**, 41, 1006-1020	9.5	29
81	Depletion of Vasohibin 1 Speeds Contraction and Relaxation in Failing Human Cardiomyocytes. *Circulation Research*, **2020**, 127, e14-e27	15.7	16
80	Repurposing an anti-cancer agent for the treatment of hypertrophic heart disease. *Journal of Pathology*, **2019**, 249, 523-535	9.4	2
79	Targeting cardiac fibrosis with engineered T cells. *Nature*, **2019**, 573, 430-433	50.4	185

78	Mitochondrial calcium exchange links metabolism with the epigenome to control cellular differentiation. *Nature Communications*, **2019**, 10, 4509	17.4	49
77	Genomics-First Evaluation of Heart Disease Associated With Titin-Truncating Variants. *Circulation*, **2019**, 140, 42-54	16.7	46
76	Pathologic gene network rewiring implicates PPP1R3A as a central regulator in pressure overload heart failure. *Nature Communications*, **2019**, 10, 2760	17.4	11
75	Cardioprotective Effects of MTSS1 Enhancer Variants. *Circulation*, **2019**, 139, 2073-2076	16.7	2
74	3158 Sunitinib-Induced Cardiotoxicity in an Engineered Cardiac Microtissue Model. *Journal of Clinical and Translational Science*, **2019**, 3, 114-115	0.4	78
73	Race, Natriuretic Peptides, and High-Carbohydrate Challenge: A Clinical Trial. *Circulation Research*, **2019**, 125, 957-968	15.7	21
72	3299 Dynamic Afterload Cardiac Microtissue Model To Examine Molecular Pathways of Heart Failure. *Journal of Clinical and Translational Science*, **2019**, 3, 9-9	0.4	78
71	Long-range enhancer-promoter interactions prevent predisposition to atrial fibrillation. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 22692-22698	11.5	25
70	Targeting MRTF/SRF in CAP2-dependent dilated cardiomyopathy delays disease onset. *JCI Insight*, **2019**, 4,	9.9	10
69	Cardiomyocyte d-dopachrome tautomerase protects against heart failure. *JCI Insight*, **2019**, 4,	9.9	7
68	Right Ventricular Myofilament Functional Differences in Humans With Systemic Sclerosis-Associated Versus Idiopathic Pulmonary Arterial Hypertension. *Circulation*, **2018**, 137, 2360-2370	16.7	65
67	Predicting Long Term Outcome in Patients Treated With Continuous Flow Left Ventricular Assist Device: The Penn-Columbia Risk Score. *Journal of the American Heart Association*, **2018**, 7,	6	21
66	GLP-1 Receptor Expression Within the Human Heart. *Endocrinology*, **2018**, 159, 1570-1584	4.8	100
65	Advanced Morphologic Analysis for Diagnosing Allograft Rejection: The Case of Cardiac Transplant Rejection. *Transplantation*, **2018**, 102, 1230-1239	1.8	13
64	Liraglutide and weight loss among patients with advanced heart failure and a reduced ejection fraction: insights from the FIGHT trial. *ESC Heart Failure*, **2018**, 5, 1035-1043	3.7	16
63	Multi-ethnic genome-wide association study for atrial fibrillation. *Nature Genetics*, **2018**, 50, 1225-1233	36.3	277
62	Suppression of detyrosinated microtubules improves cardiomyocyte function in human heart failure. *Nature Medicine*, **2018**, 24, 1225-1233	50.5	106
61	Genetic Reduction in Left Ventricular Protein Kinase C-□and Adverse Ventricular Remodeling in Human Subjects. *Circulation Genomic and Precision Medicine*, **2018**, 11, e001901	5.2	4

60	CAP2 loss activated MRTF/SRF signaling through actin dynamics in cardiomyocytes. *Proceedings for Annual Meeting of the Japanese Pharmacological Society*, **2018**, WCP2018, OR15-5	0	
59	Effect of Inorganic Nitrite vs Placebo on Exercise Capacity Among Patients With Heart Failure With Preserved Ejection Fraction: The INDIE-HFpEF Randomized Clinical Trial. *JAMA - Journal of the American Medical Association*, **2018**, 320, 1764-1773	27.4	128
58	Microtubules Provide a Viscoelastic Resistance to Myocyte Motion. *Biophysical Journal*, **2018**, 115, 1796-1807	3.7	20
57	Targeting Calpain for Heart Failure Therapy: Implications From Multiple Murine Models. *JACC Basic To Translational Science*, **2018**, 3, 503-517	8.7	25
56	Common Coding Variants in Are Associated With the Nav1.8 Late Current and Cardiac Conduction. *Circulation Genomic and Precision Medicine*, **2018**, 11, e001663	5.2	14
55	Increased Afterload Augments Sunitinib-Induced Cardiotoxicity in an Engineered Cardiac Microtissue Model. *JACC Basic To Translational Science*, **2018**, 3, 265-276	8.7	29
54	A deep-learning classifier identifies patients with clinical heart failure using whole-slide images of H&E tissue. *PLoS ONE*, **2018**, 13, e0192726	3.7	63
53	Detailed Echocardiographic Phenotyping in Breast Cancer Patients: Associations With Ejection Fraction Decline, Recovery, and Heart Failure Symptoms Over 3 Years of Follow-Up. *Circulation*, **2017**, 135, 1397-1412	16.7	95
52	Sparse simultaneous signal detection for identifying genetically controlled disease genes. *Journal of the American Statistical Association*, **2017**, 112, 1032-1046	2.8	5
51	Low ejection fraction in donor hearts is not directly associated with increased recipient mortality. *Journal of Heart and Lung Transplantation*, **2017**, 36, 611-615	5.8	34
50	Sirtuin 1 regulates cardiac electrical activity by deacetylating the cardiac sodium channel. *Nature Medicine*, **2017**, 23, 361-367	50.5	44
49	Effects of organic and inorganic nitrate on aortic and carotid haemodynamics in heart failure with preserved ejection fraction. *European Journal of Heart Failure*, **2017**, 19, 1507-1515	12.3	28
48	Development of dilated cardiomyopathy and impaired calcium homeostasis with cardiac-specific deletion of ESRR *American Journal of Physiology - Heart and Circulatory Physiology*, **2017**, 312, H662-H671	5.2	12
47	Pharmacokinetics and Pharmacodynamics of Inorganic Nitrate in Heart Failure With Preserved Ejection Fraction. *Circulation Research*, **2017**, 120, 1151-1161	15.7	43
46	In vivo label-free structural and biochemical imaging of coronary arteries using an integrated ultrasound and multispectral fluorescence lifetime catheter system. *Scientific Reports*, **2017**, 7, 8960	4.9	30
45	Prognostic Implications of Changes in Albumin Following Left Ventricular Assist Device Implantation in Patients With Severe Heart Failure. *American Journal of Cardiology*, **2017**, 120, 2003-2007	3	6
44	Efficacy and Safety of Spironolactone in Acute Heart Failure: The ATHENA-HF Randomized Clinical Trial. *JAMA Cardiology*, **2017**, 2, 950-958	16.2	114
43	Right ventricular response to pulsatile load is associated with early right heart failure and mortality after left ventricular assist device. *Journal of Heart and Lung Transplantation*, **2017**, 36, 97-105	5.8	27

42	Deep Learning Tissue Segmentation in Cardiac Histopathology Images **2017**, 179-195		10
41	Overexpression of tissue-nonspecific alkaline phosphatase (TNAP) in endothelial cells accelerates coronary artery disease in a mouse model of familial hypercholesterolemia. *PLoS ONE*, **2017**, 12, e0186426	3.7	35
40	Intensification of Medication Therapy for Cardiorenal Syndrome in Acute Decompensated Heart Failure. *Journal of Cardiac Failure*, **2016**, 22, 26-32	3.3	34
39	Transcription Factor 7-like 2 Mediates Canonical Wnt/β-Catenin Signaling and c-Myc Upregulation in Heart Failure. *Circulation: Heart Failure*, **2016**, 9,	7.6	37
38	Hyperamylinemia Increases IL-1β Synthesis in the Heart via Peroxidative Sarcolemmal Injury. *Diabetes*, **2016**, 65, 2772-83	0.9	14
37	Evidence for Intramyocardial Disruption of Lipid Metabolism and Increased Myocardial Ketone Utilization in Advanced Human Heart Failure. *Circulation*, **2016**, 133, 706-16	16.7	281
36	Mitochondrial protein hyperacetylation in the failing heart. *JCI Insight*, **2016**, 2,	9.9	87
35	Discovery of Genetic Variation on Chromosome 5q22 Associated with Mortality in Heart Failure. *PLoS Genetics*, **2016**, 12, e1006034	6	26
34	Comparing Raman and fluorescence lifetime spectroscopy from human atherosclerotic lesions using a bimodal probe. *Journal of Biophotonics*, **2016**, 9, 958-66	3.1	15
33	Lack of Benefit for Liraglutide in Heart Failure-Reply. *JAMA - Journal of the American Medical Association*, **2016**, 316, 2429-2430	27.4	5
32	Comparison of Causes of Death After Heart Transplantation in Patients With Left Ventricular Ejection Fractions ≤35% Versus >35. *American Journal of Cardiology*, **2016**, 117, 1322-6	3	9
31	Detyrosinated microtubules buckle and bear load in contracting cardiomyocytes. *Science*, **2016**, 352, aaf0659	33.3	172
30	Effect of Heart Failure With Preserved Ejection Fraction on Nitric Oxide Metabolites. *American Journal of Cardiology*, **2016**, 118, 1855-1860	3	11
29	Effects of Liraglutide on Clinical Stability Among Patients With Advanced Heart Failure and Reduced Ejection Fraction: A Randomized Clinical Trial. *JAMA - Journal of the American Medical Association*, **2016**, 316, 500-8	27.4	327
28	Phosphodiesterase 9A controls nitric-oxide-independent cGMP and hypertrophic heart disease. *Nature*, **2015**, 519, 472-6	50.4	208
27	CaMKII Phosphorylation of Na(V)1.5: Novel in Vitro Sites Identified by Mass Spectrometry and Reduced S516 Phosphorylation in Human Heart Failure. *Journal of Proteome Research*, **2015**, 14, 2298-311	5.6	32
26	Effects of sildenafil on ventricular and vascular function in heart failure with preserved ejection fraction. *Circulation: Heart Failure*, **2015**, 8, 533-41	7.6	49
25	MetaDiff: differential isoform expression analysis using random-effects meta-regression. *BMC Bioinformatics*, **2015**, 16, 208	3.6	9

24	Bayesian integration of genetics and epigenetics detects causal regulatory SNPs underlying expression variability. *Nature Communications*, **2015**, 6, 8555	17.4	20
23	RNA-Seq identifies novel myocardial gene expression signatures of heart failure. *Genomics*, **2015**, 105, 83-9	4.3	129
22	Acute aerobic exercise increases exogenously infused bone marrow cell retention in the heart. *Physiological Reports*, **2015**, 3, e12566	2.6	5
21	Effect of inorganic nitrate on exercise capacity in heart failure with preserved ejection fraction. *Circulation*, **2015**, 131, 371-80; discussion 380	16.7	203
20	Identifying biomarker patterns and predictors of inflammation and myocardial stress. *Journal of Cardiac Failure*, **2015**, 21, 439-45	3.3	5
19	Intracellular Na+ Concentration ([Na+]i) Is Elevated in Diabetic Hearts Due to Enhanced Na+-Glucose Cotransport. *Journal of the American Heart Association*, **2015**, 4, e002183	6	65
18	Genetic association study of QT interval highlights role for calcium signaling pathways in myocardial repolarization. *Nature Genetics*, **2014**, 46, 826-36	36.3	199
17	Gene expression and genetic variation in human atria. *Heart Rhythm*, **2014**, 11, 266-71	6.7	42
16	Emerging Tools for Computer-Aided Diagnosis and Prognostication. *Journal of Clinical Trials*, **2014**, 4, e117	1	1
15	A bioengineered hydrogel system enables targeted and sustained intramyocardial delivery of neuregulin, activating the cardiomyocyte cell cycle and enhancing ventricular function in a murine model of ischemic cardiomyopathy. *Circulation: Heart Failure*, **2014**, 7, 619-26	7.6	40
14	Cardioprotection by controlling hyperamylinemia in a "humanized" diabetic rat model. *Journal of the American Heart Association*, **2014**, 3,	6	29
13	GLP-1 agonist therapy for advanced heart failure with reduced ejection fraction: design and rationale for the functional impact of GLP-1 for heart failure treatment study. *Circulation: Heart Failure*, **2014**, 7, 673-9	7.6	33
12	Ventilatory inefficiency reflects right ventricular dysfunction in systolic heart failure. *Chest*, **2011**, 139, 617-625	5.3	28
11	Genomics, transcriptional profiling, and heart failure. *Journal of the American College of Cardiology*, **2009**, 53, 1752-9	15.1	34
10	Sex-based differences in cardiac contractility are evident during stress. *FASEB Journal*, **2006**, 20, A1448	0.9	
9	Mixed messages: transcription patterns in failing and recovering human myocardium. *Circulation Research*, **2005**, 96, 592-9	15.7	132
8	Reversal mechanisms of left ventricular remodeling: lessons from left ventricular assist device experiments. *Journal of Cardiac Failure*, **2002**, 8, S500-5	3.3	42
7	Contractile protein abnormalities in failing hearts. *Journal of Nuclear Cardiology*, **2002**, 9, 413-8	2.1	

6	Electrophysiological alterations after mechanical circulatory support in patients with advanced cardiac failure. *Circulation*, **2001**, 104, 1241-7	16.7	114
5	Patients with end-stage congestive heart failure treated with beta-adrenergic receptor antagonists have improved ventricular myocyte calcium regulatory protein abundance. *Circulation*, **2001**, 104, 1012-8	16.7	118
4	Differential regulation of mitogen-activated protein kinases in the failing human heart in response to mechanical unloading. *Circulation*, **2001**, 104, 2273-6	16.7	78
3	Sodium/calcium exchange contributes to contraction and relaxation in failed human ventricular myocytes. *American Journal of Physiology - Heart and Circulatory Physiology*, **1999**, 277, H714-24	5.2	29
2	Transcriptional and Cellular Diversity of the Human Heart		4
1	Genome-Wide Fetalization of Enhancer Architecture in Heart Disease		6