Mark T Kearney

List of Publications by Year
in descending order

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118 papers	5,396 citations	87888 38 h-index	91884 69 g-index
120 all docs	120 docs citations	120 times ranked	8056 citing authors

#	Article	IF	Citations
1	Piezo1 integration of vascular architecture with physiological force. Nature, 2014, 515, 279-282.	27.8	813
2	IGF-dependent and IGF-independent actions of IGF-binding protein-1 and -2: implications for metabolic homeostasis. Trends in Endocrinology and Metabolism, 2009, 20, 153-162.	7.1	237
3	IGF-Binding Protein-2 Protects Against the Development of Obesity and Insulin Resistance. Diabetes, 2007, 56, 285-294.	0.6	231
4	Piezo1 channels sense whole body physical activity to reset cardiovascular homeostasis and enhance performance. Nature Communications, 2017, 8, 350.	12.8	197
5	Predicting death due to progressive heart failure in patients with mild-to-moderate chronic heart failure. Journal of the American College of Cardiology, 2002, 40, 1801-1808.	2.8	193
6	Effects of Vitamin D on Cardiac Function inÂPatients With Chronic HF. Journal of the American College of Cardiology, 2016, 67, 2593-2603.	2.8	179
7	Effect of Endothelium-Specific Insulin Resistance on Endothelial Function In Vivo. Diabetes, 2008, 57, 3307-3314.	0.6	154
8	Inducible Nitric Oxide Synthase Has Divergent Effects on Vascular and Metabolic Function in Obesity. Diabetes, 2005, 54, 1082-1089.	0.6	137
9	Diabetes mellitus is associated with adverse prognosis in chronic heart failure of ischaemic and non-ischaemic aetiology. Diabetes and Vascular Disease Research, 2013, 10, 330-336.	2.0	132
10	Vascular Dysfunction and Reduced Circulating Endothelial Progenitor Cells in Young Healthy UK South Asian Men. Arteriosclerosis, Thrombosis, and Vascular Biology, 2007, 27, 936-942.	2.4	130
11	Changing Characteristics and Mode of Death Associated With Chronic Heart Failure Caused by Left Ventricular Systolic Dysfunction. Circulation: Heart Failure, 2011, 4, 396-403.	3.9	120
12	Nox2 NADPH Oxidase Has a Critical Role in Insulin Resistanceâ€“Related Endothelial Cell Dysfunction. Diabetes, 2013, 62, 2130-2134.	0.6	117
13	Endothelial Function and Weight Loss in Obese Humans. Obesity Surgery, 2005, 15, 1055-1060.	2.1	104
14	Temporal trends in mortality of patients with diabetes mellitus suffering acute myocardial infarction: a comparison of over 3000 patients between 1995 and 2003. European Heart Journal, 2006, 28, 540-545.	2.2	102
15	Constitutively Active TRPC Channels of Adipocytes Confer a Mechanism for Sensing Dietary Fatty Acids and Regulating Adiponectin. Circulation Research, 2012, 111, 191-200.	4.5	90
16	Effects of Nitric Oxide Synthase Inhibition on Basal Function and the Force-Frequency Relationship in the Normal and Failing Human Heart In Vivo. Circulation, 2001, 104, 2318-2323.	1.6	88
17	The role of IGFâ€‰and its binding proteins in the development of type 2 diabetes and cardiovascular disease. Diabetes, Obesity and Metabolism, 2008, 10, 198-211.	4.4	79
18	The Insulin-Like Growth Factor-1 Receptor Is a Negative Regulator of Nitric Oxide Bioavailability and Insulin Sensitivity in the Endothelium. Diabetes, 2011, 60, 2169-2178.	0.6	79

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19	Insulin resistance and endothelial cell dysfunction: studies in mammalian models. Experimental Physiology, 2008, 93, 158-163.	2.0	75
20	Accelerated endothelial dysfunction in mild prediabetic insulin resistance: the early role of reactive oxygen species. American Journal of Physiology - Endocrinology and Metabolism, 2007, 293, E1311-E1319.	3.5	71
21	Diabetes Mellitus, Microalbuminuria, and Subclinical Cardiac Disease: Identification and Monitoring of Individuals at Risk of Heart Failure. Journal of the American Heart Association, 2017, 6, .	3.7	67
22	Preserved Glucoregulation but Attenuation of the Vascular Actions of Insulin in Mice Heterozygous for Knockout of the Insulin Receptor. Diabetes, 2004, 53, 2645-2652.	0.6	61
23	Human Exercise-Induced Circulating Progenitor Cell Mobilization Is Nitric Oxide-Dependent and Is Blunted in South Asian Men. Arteriosclerosis, Thrombosis, and Vascular Biology, 2010, 30, 878-884.	2.4	55
24	Insulin resistance, lipotoxicity and endothelial dysfunction. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2010, 1801, 320-326.	2.4	55
25	Novel Role of the IGF-1 Receptor in Endothelial Function and Repair. Diabetes, 2012, 61, 2359-2368.	0.6	54
26	Endothelium-specific insulin resistance leads to accelerated atherosclerosis in areas with disturbed flow patterns: A role forÂreactive oxygen species. Atherosclerosis, 2013, 230, 131-139.	0.8	54
27	The microvascular effects of insulin resistance and diabetes on cardiac structure, function, and perfusion: a cardiovascular magnetic resonance study. European Heart Journal Cardiovascular Imaging, 2014, 15, 1368-1376.	1.2	53
28	A prognostic index to predict long-term mortality in patients with mild to moderate chronic heart failure stabilised on angiotensin converting enzyme inhibitors. European Journal of Heart Failure, 2003, 5, 489-497.	7.1	52
29	Insulin-Like Growth Factor Binding Protein 1 Could Improve Glucose Regulation and Insulin Sensitivity Through Its RGD Domain. Diabetes, 2017, 66, 287-299.	0.6	52
30	Prevalence and Predictors of Sepsis Death in Patients With Chronic Heart Failure and Reduced Left Ventricular Ejection Fraction. Journal of the American Heart Association, 2018, 7, e009684.	3.7	52
31	Role of IGF-1 in glucose regulation and cardiovascular disease. Expert Review of Cardiovascular Therapy, 2008, 6, 1135-1149.	1.5	51
32	Insulin Resistance Impairs Circulating Angiogenic Progenitor Cell Function and Delays Endothelial Regeneration. Diabetes, 2011, 60, 1295-1303.	0.6	50
33	Socioeconomic deprivation and mode-specific outcomes in patients with chronic heart failure. Heart, 2018, 104, 993-998.	2.9	49
34	Vascular Insulin-Like Growth Factor-I Resistance and Diet-Induced Obesity. Endocrinology, 2009, 150, 4575-4582.	2.8	47
35	Heart rate turbulence and death due to cardiac decompensation in patients with chronic heart failure. European Journal of Heart Failure, 2006, 8, 585-590.	7.1	44
36	Cre/lox Studies Identify Resident Macrophages as the Major Source of Circulating Coagulation Factor XIII-A. Arteriosclerosis, Thrombosis, and Vascular Biology, 2017, 37, 1494-1502.	2.4	44

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37	VEGF-A isoforms program differential VEGFR2 signal transduction, trafficking and proteolysis. Biology Open, 2016, 5, 571-583.	1.2	43
38	Orai1 Channel Inhibition Preserves Left Ventricular Systolic Function and Normal Ca ²⁺ Handling After Pressure Overload. Circulation, 2020, 141, 199-216.	1.6	42
39	Predicting oneâ€year mortality in heart failure using the â€˜Surprise Questionâ€™: a prospective pilot study. European Journal of Heart Failure, 2019, 21, 227-234.	7.1	40
40	Infection-Related Hospitalization in Heart Failure With Reduced Ejection Fraction. Circulation: Heart Failure, 2020, 13, e006746.	3.9	39
41	Depressor Action of Insulin on Skeletal Muscle Vasculature: A Novel Mechanism for Postprandial Hypotension in the Elderly. Journal of the American College of Cardiology, 1998, 31, 209-216.	2.8	38
42	Aspirin and Mortality in Patients With Diabetes Sustaining Acute Coronary Syndrome. Diabetes Care, 2008, 31, 363-365.	8.6	38
43	Non-communicable disease, sociodemographic factors, and risk of death from infection: a UK Biobank observational cohort study. Lancet Infectious Diseases, The, 2021, 21, 1184-1191.	9.1	36
44	Diabetes mellitus is associated with adverse structural and functional cardiac remodelling in chronic heart failure with reduced ejection fraction. Diabetes and Vascular Disease Research, 2016, 13, 331-340.	2.0	34
45	Vascular Endothelial Function and Blood Pressure Homeostasis in Mice Overexpressing IGF Binding Protein-1. Diabetes, 2003, 52, 2075-2082.	0.6	33
46	Selective Enhancement of Insulin Sensitivity in the Endothelium In Vivo Reveals a Novel Proatherosclerotic Signaling Loop. Circulation Research, 2017, 120, 784-798.	4.5	33
47	Chronotropic Incompetence DoesÂNotÂLimit Exercise Capacity inÂChronicÂHeartÂFailure. Journal of the American College of Cardiology, 2016, 67, 1885-1896.	2.8	32
48	Prioritizing symptom management in the treatment of chronic heart failure. ESC Heart Failure, 2020, 7, 2193-2207.	3.1	32
49	Mortality Reduction Associated With Î²-Adrenoceptor Inhibition in Chronic Heart Failure Is Greater in Patients With Diabetes. Diabetes Care, 2018, 41, 136-142.	8.6	32
50	The role of IGF-1 resistance in obesity and type 2 diabetes-mellitus-related insulin resistance and vascular disease. Expert Opinion on Therapeutic Targets, 2010, 14, 1333-1342.	3.4	29
51	Endothelial IGF-1 Receptor Signalling in Diabetes and Insulin Resistance. Trends in Endocrinology and Metabolism, 2016, 27, 96-104.	7.1	29
52	Piezo1 channel activation mimics high glucose as a stimulator of insulin release. Scientific Reports, 2019, 9, 16876.	3.3	29
53	Orai3 Surface Accumulation and Calcium Entry Evoked by Vascular Endothelial Growth Factor. Arteriosclerosis, Thrombosis, and Vascular Biology, 2015, 35, 1987-1994.	2.4	27
54	Acute haemodynamic effects of lipolysis-induced increase of free fatty acids in healthy men. Clinical Science, 2002, 102, 495-500.	4.3	23

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55	The association between saphenous vein endothelial function, systemic inflammation, and statin therapy in patients undergoing coronary artery bypass surgery. Journal of Thoracic and Cardiovascular Surgery, 2007, 134, 335-341.	0.8	23
56	Endothelial SHIP2 Suppresses Nox2 NADPH Oxidaseâ€“Dependent Vascular Oxidative Stress, Endothelial Dysfunction, and Systemic Insulin Resistance. Diabetes, 2017, 66, 2808-2821.	0.6	23
57	Vitamin D deficiency is an independent predictor of mortality in patients with chronic heart failure. European Journal of Nutrition, 2019, 58, 2535-2543.	3.9	23
58	Endothelial Piezo1 sustains muscle capillary density and contributes to physical activity. Journal of Clinical Investigation, 2022, 132, .	8.2	23
59	Association of heart failure and its comorbidities with loss of life expectancy. Heart, 2021, 107, 1417-1421.	2.9	21
60	Chronic heart failure with diabetes mellitus is characterized by a severe skeletal muscle pathology. Journal of Cachexia, Sarcopenia and Muscle, 2020, 11, 394-404.	7.3	20
61	Endothelial Insulin Receptors Promote VEGF-A Signaling via ERK1/2 and Sprouting Angiogenesis. Endocrinology, 2021, 162, .	2.8	20
62	Diabetes Mellitus and Mortality after Acute Coronary Syndrome as a First or Recurrent Cardiovascular Event. PLoS ONE, 2008, 3, e3483.	2.5	19
63	Restoring Akt1 Activity in Outgrowth Endothelial Cells From South Asian Men Rescues Vascular Reparative Potential. Stem Cells, 2014, 32, 2714-2723.	3.2	18
64	Advanced care planning during the COVID-19 pandemic: ceiling of care decisions and their implications for observational data. BMC Palliative Care, 2021, 20, 10.	1.8	18
65	Insulin- and Growth Factor-Resistance Impairs Vascular Regeneration in Diabetes Mellitus. Current Vascular Pharmacology, 2012, 10, 271-284.	1.7	17
66	Haploinsufficiency of the Insulin-Like Growth Factor-1 Receptor Enhances Endothelial Repair and Favorably Modifies Angiogenic Progenitor Cell Phenotype. Arteriosclerosis, Thrombosis, and Vascular Biology, 2014, 34, 2051-2058.	2.4	16
67	A Novel and Practical Screening Tool for the Detection of Silent Myocardial Infarction in Patients With Type 2 Diabetes. Journal of Clinical Endocrinology and Metabolism, 2016, 101, 3316-3323.	3.6	15
68	Cardiovascular magnetic resonance measures of aortic stiffness in asymptomatic patients with type 2 diabetes: association with glycaemic control and clinical outcomes. Cardiovascular Diabetology, 2018, 17, 35.	6.8	15
69	Attenuation of oxidative stress-induced lesions in skeletal muscle in a mouse model of obesity-independent hyperlipidaemia and atherosclerosis through the inhibition of Nox2 activity. Free Radical Biology and Medicine, 2018, 129, 504-519.	2.9	15
70	Divergent skeletal muscle mitochondrial phenotype between male and female patients with chronic heart failure. Journal of Cachexia, Sarcopenia and Muscle, 2020, 11, 79-88.	7.3	15
71	Rate-Response Programming Tailored toÂthe Force-Frequency Relationship Improves Exercise Tolerance in ChronicÂHeart Failure. JACC: Heart Failure, 2018, 6, 105-113.	4.1	14
72	Changing the Way We Think About Endothelial Cell Insulin Sensitivity, Nitric Oxide, and the Pathophysiology of Type 2 Diabetes. Diabetes, 2013, 62, 1386-1388.	0.6	13

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73	An evaluation of 20year survival in patients with diabetes mellitus and acute myocardial infarction. International Journal of Cardiology, 2016, 203, 141-144.	1.7	13
74	Causes of Death in People With Cardiovascular Disease: A UK Biobank Cohort Study. Journal of the American Heart Association, 2021, 10, e023188.	3.7	13
75	In Silico Design and Biological Evaluation of a Dual Specificity Kinase Inhibitor Targeting Cell Cycle Progression and Angiogenesis. PLoS ONE, 2014, 9, e110997.	2.5	12
76	Personalized Rate-Response Programming Improves Exercise Tolerance After 6 Months in People With Cardiac Implantable Electronic Devices and Heart Failure. Circulation, 2020, 141, 1693-1703.	1.6	12
77	A portable prototype magnetometer to differentiate ischemic and non-ischemic heart disease in patients with chest pain. PLoS ONE, 2018, 13, e0191241.	2.5	12
78	Recent developments in the structural characterisation of the IR and IGF1R: implications for the design of IRâ€“IGF1R hybrid receptor modulators. RSC Medicinal Chemistry, 2022, 13, 360-374.	3.9	12
79	The IGF-1 receptor and regulation of nitric oxide bioavailability and insulin signalling in the endothelium. Pflugers Archiv European Journal of Physiology, 2013, 465, 1065-1074.	2.8	11
80	Endothelial Insulin Receptor Restoration Rescues Vascular Function in Male Insulin Receptor Haploinsufficient Mice. Endocrinology, 2018, 159, 2917-2925.	2.8	11
81	Unique Transcriptome Signature Distinguishes Patients With Heart Failure With Myopathy. Journal of the American Heart Association, 2020, 9, e017091.	3.7	11
82	Divergent effects of genetic and pharmacological inhibition of Nox2 NADPH oxidase on insulin resistance-related vascular damage. American Journal of Physiology - Cell Physiology, 2020, 319, C64-C74.	4.6	11
83	Insulinlike Growth Factorâ€“Binding Protein-1 Improves Vascular Endothelial Repair in Male Mice in the Setting of Insulin Resistance. Endocrinology, 2018, 159, 696-709.	2.8	10
84	Effects of obesity on insulin: insulin-like growth factor 1 hybrid receptor expression and Akt phosphorylation in conduit and resistance arteries. Diabetes and Vascular Disease Research, 2019, 16, 160-170.	2.0	10
85	Importance of insulin resistance to vascular repair and regeneration. Free Radical Biology and Medicine, 2013, 60, 246-263.	2.9	9
86	Ischemic Heart Disease Modifies the Association of Atrial Fibrillation With Mortality in Heart Failure With Reduced Ejection Fraction. Journal of the American Heart Association, 2018, 7, e009770.	3.7	9
87	Pericyte Insulin Receptors Modulate Retinal Vascular Remodeling and Endothelial Angiopoietin Signaling. Endocrinology, 2021, 162, .	2.8	9
88	Sympathetic Activation and Vasoregulation in Response to Carbohydrate Ingestion in Patients With Congestive Heart Failure. Canadian Journal of Cardiology, 2013, 29, 236-242.	1.7	8
89	Homotypic endothelial nanotubes induced by wheat germ agglutinin and thrombin. Scientific Reports, 2018, 8, 7569.	3.3	8
90	Prognostic Significance of Incidental Nonsustained Ventricular Tachycardia Detected on Pacemaker Interrogation. American Journal of Cardiology, 2019, 123, 409-413.	1.6	8

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91	Inorganic Nitrate Promotes Glucose Uptake and Oxidative Catabolism in White Adipose Tissue Through the XOR-Catalyzed Nitric Oxide Pathway. Diabetes, 2020, 69, 893-901.	0.6	8
92	Paracrine Role of the Endothelium in Metabolic Homeostasis in Health and Nutrient Excess. Frontiers in Cardiovascular Medicine, 2022, 9, 882923.	2.4	8
93	Guideline-directed medical therapy is similarly effective in heart failure with mildly reduced ejection fraction. Clinical Research in Cardiology, 2023, 112, 111-122.	3.3	8
94	Chronic heart failure and type 2 diabetes mellitus: The last battle?. Diabetes and Vascular Disease Research, 2015, 12, 226-227.	2.0	7
95	Endothelial IGFâ€1 receptor mediates crosstalk with the gut wall to regulate microbiota in obesity. EMBO Reports, 2021, 22, e50767.	4.5	7
96	Novel Paracrine Action of Endothelium Enhances Glucose Uptake in Muscle and Fat. Circulation Research, 2021, 129, 720-734.	4.5	7
97	Effect of diseaseâ€modifying agents and their association with mortality in multiâ€morbid patients with heart failure with reduced ejection fraction. ESC Heart Failure, 2020, 7, 3859-3870.	3.1	7
98	Heart failure: A preventable and treatable complication of type 2 diabetes. Journal of Diabetes, 2019, 11, 613-616.	1.8	6
99	Impact of QRS duration on left ventricular remodelling and survival in patients with heart failure. Journal of Cardiovascular Medicine, 2021, 22, 848-856.	1.5	6
100	TRPC5 ion channel permeation promotes weight gain in hypercholesterolaemic mice. Scientific Reports, 2019, 9, 773.	3.3	5
101	Systemic Inflammation Is Associated With Future Risk of Fatal Infection: An Observational Cohort Study. Journal of Infectious Diseases, 2022, 226, 554-562.	4.0	5
102	IGFBP-1 in Cardiometabolic Pathophysiologyâ€"Insights From Loss-of-Function and Gain-of-Function Studies in Male Mice. Journal of the Endocrine Society, 2020, 4, bvz006.	0.2	4
103	Reduction of heart failure guidelineâ€directed medication during hospitalization: prevalence, risk factors, and outcomes. ESC Heart Failure, 2022, 9, 3298-3307.	3.1	4
104	Performance of 2014 NICE defibrillator implantation guidelines in heart failure risk stratification. Heart, 2016, 102, 735-740.	2.9	3
105	Devices in heart failure; diagnosis, detection and disease modification. British Medical Bulletin, 2018, 125, 91-102.	6.9	3
106	Prospective evaluation and long-term follow-up of patients referred to secondary care based upon natriuretic peptide levels in primary care. European Heart Journal Quality of Care & Clinical Outcomes, 2019, 5, 218-224.	4.0	3
107	Diabetes mellitus and heart failure: a deadly duo. Journal of Thoracic Disease, 2017, 9, 16-18.	1.4	2
108	Improving outcomes in patients with type 2 diabetes mellitus and chronic heart failure: New hope. Journal of Diabetes, 2018, 10, 799-800.	1.8	2

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109	Optimising pacemaker therapy and medical therapy in pacemaker patients for heart failure: protocol for the OPT-PACE randomised controlled trial. BMJ Open, 2019, 9, e028613.	1.9	2
110	Cixutumumab reveals a critical role for IGF-1 in adipose and hepatic tissue remodelling during the development of diet-induced obesity. Adipocyte, 2022, 11, 366-378.	2.8	2
111	Contemporary treatment strategies for Type 2 diabetes-related macrovascular disease. Expert Review of Endocrinology and Metabolism, 2014, 9, 641-658.	2.4	1
112	Diabetes, gender and deterioration in estimated glomerular filtration rate in patients with chronic heart failure: Ten-year prospective cohort study. Diabetes and Vascular Disease Research, 2021, 18, 147916412098443.	2.0	1
113	Diabetes mellitus and the causes of hospitalisation in people with heart failure. Diabetes and Vascular Disease Research, 2022, 19, 147916412110739.	2.0	1
114	Response by Viswambharan and Kearney to Letter Regarding Article, â€œSelective Enhancement of Insulin Sensitivity in the Endothelium In Vivo Reveals a Novel Proatherosclerotic Signaling Loopâ€• Circulation Research, 2017, 120, e4-e5.	4.5	0
115	226â€…The impact of nadph oxidase 2 inhibition on skeletal muscle pathophysiology of atherosclerotic mice. Heart, 2017, 103, A146.1-A146.	2.9	0
116	Diabetic heart failure patients demonstrate a mitochondrial complex I dependent impairment in skeletal muscle. FASEB Journal, 2018, 32, 903.10.	0.5	0
117	Response by Gierula et al to Letter Regarding Article, â€œPersonalized Rate-Response Programming Improves Exercise Tolerance After 6 Months in People With Cardiac Implantable Electronic Devices and Heart Failure: A Phase II Studyâ€• Circulation, 2020, 142, e319-e320.	1.6	0
118	Personalised reprogramming to prevent progressive pacemaker-related left ventricular dysfunction: A phase II randomised, controlled clinical trial. PLoS ONE, 2021, 16, e0259450.	2.5	0