James R Sowers

List of Publications by Year in Descending Order

114 papers	5,304 citations	37 h-index	72 g-index
118 ext. papers	6,857 ext. citations	5.7 avg, IF	6.7 L-index

#	Paper	IF	Citations
114	Targeting mineralocorticoid receptors in diet-induced hepatic steatosis and insulin resistance.. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **2022**,	3.2	2
113	Endothelial sodium channel activation mediates DOCA-salt-induced endothelial cell and arterial stiffening.. *Metabolism: Clinical and Experimental*, **2022**, 130, 155165	12.7	0
112	Inhibition of sphingomyelinase attenuates diet - Induced increases in aortic stiffness.. *Journal of Molecular and Cellular Cardiology*, **2022**, 167, 32-39	5.8	0
111	Cell death regulation by MAMs: from molecular mechanisms to therapeutic implications in cardiovascular diseases. *Cell Death and Disease*, **2022**, 13,	9.8	1
110	Management of hypertension in patients with COVID-19: Implication of angiotensin-converting enzyme 2.. *Cardiology Plus*, **2021**, 6, 210-217	0.3	
109	Hypertension in Diabetes: An Update of Basic Mechanisms and Clinical Disease. *Hypertension*, **2021**, 78, 1197-1205	8.5	8
108	DPP4 inhibition mitigates ANG II-mediated kidney immune activation and injury in male mice. *American Journal of Physiology - Renal Physiology*, **2021**, 320, F505-F517	4.3	1
107	Sacubitril/valsartan inhibits obesity-associated diastolic dysfunction through suppression of ventricular-vascular stiffness. *Cardiovascular Diabetology*, **2021**, 20, 80	8.7	4
106	Obesity, Adipose Tissue and Vascular Dysfunction. *Circulation Research*, **2021**, 128, 951-968	15.7	31
105	Insulin resistance, cardiovascular stiffening and cardiovascular disease. *Metabolism: Clinical and Experimental*, **2021**, 119, 154766	12.7	24
104	Commentary: COVID-19 and obesity pandemics converge into a syndemic requiring urgent and multidisciplinary action. *Metabolism: Clinical and Experimental*, **2021**, 114, 154408	12.7	21
103	Mineralocorticoid receptors in the pathogenesis of insulin resistance and related disorders: from basic studies to clinical disease. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **2021**, 320, R276-R286	3.2	5
102	Commentary: COVID-19 in patients with diabetes. *Metabolism: Clinical and Experimental*, **2020**, 107, 154217	12.7	89
101	Renal resistive index as a novel biomarker for cardiovascular and kidney risk reduction in type II diabetes. *Journal of Clinical Hypertension*, **2020**, 22, 231-233	2.3	2
100	Endothelial sodium channel activation promotes cardiac stiffness and diastolic dysfunction in Western diet fed female mice. *Metabolism: Clinical and Experimental*, **2020**, 109, 154223	12.7	7
99	Targeting endothelial exosomes for the prevention of cardiovascular disease. *Biochimica Et Biophysica Acta - Molecular Basis of Disease*, **2020**, 1866, 165833	6.9	8
98	Covid-19 and Disparities in Nutrition and Obesity. *New England Journal of Medicine*, **2020**, 383, e69	59.2	108

97	Mineralocorticoid antagonists and ENaC inhibitors in hyperaldosteronism. *Journal of Clinical Hypertension*, **2019**, 21, 929-931	2.3	2
96	Diet-Induced Obesity Promotes Kidney Endothelial Stiffening and Fibrosis Dependent on the Endothelial Mineralocorticoid Receptor. *Hypertension*, **2019**, 73, 849-858	8.5	28
95	Endothelial cell senescence in aging-related vascular dysfunction. *Biochimica Et Biophysica Acta - Molecular Basis of Disease*, **2019**, 1865, 1802-1809	6.9	105
94	Epithelial sodium channels in endothelial cells mediate diet-induced endothelium stiffness and impaired vascular relaxation in obese female mice. *Metabolism: Clinical and Experimental*, **2019**, 99, 57-66	12.7	26
93	Utility of obesity and metabolic dyslipidemia (a non-insulin based determinate of the metabolic syndrome and insulin resistance) in predicting arterial stiffness. *Journal of Clinical Hypertension*, **2019**, 21, 1071-1074	2.3	3
92	Diabetes and Cardiovascular Disease: an Update. *Current Diabetes Reports*, **2019**, 19, 161	5.6	20
91	Increased Fibro-Adipogenic Progenitors and Intramyocellular Lipid Accumulation in Obesity-Related Skeletal Muscle Dysfunction. *Diabetes*, **2019**, 68, 18-20	0.9	7
90	Targeting autophagy in obesity: from pathophysiology to management. *Nature Reviews Endocrinology*, **2018**, 14, 356-376	15.2	166
89	Diabetic Cardiomyopathy: An Update of Mechanisms Contributing to This Clinical Entity. *Circulation Research*, **2018**, 122, 624-638	15.7	613
88	Statins and New-Onset Diabetes in Cardiovascular and Kidney Disease Cohorts: A Meta-Analysis. *CardioRenal Medicine*, **2018**, 8, 105-112	2.8	8
87	Diabetes and Hypertension: Clinical Update. *American Journal of Hypertension*, **2018**, 31, 515-521	2.3	9
86	Enhanced endothelium epithelial sodium channel signaling prompts left ventricular diastolic dysfunction in obese female mice. *Metabolism: Clinical and Experimental*, **2018**, 78, 69-79	12.7	28
85	Autophagy as an emerging target in cardiorenal metabolic disease: From pathophysiology to management. *Pharmacology & Therapeutics*, **2018**, 191, 1-22	13.9	70
84	Glycemic control by the SGLT2 inhibitor empagliflozin decreases aortic stiffness, renal resistivity index and kidney injury. *Cardiovascular Diabetology*, **2018**, 17, 108	8.7	72
83	Role of Renin-Angiotensin-Aldosterone System Activation in Promoting Cardiovascular Fibrosis and Stiffness. *Hypertension*, **2018**, 72, 537-548	8.5	56
82	Potential Role of Antihypertensive Medications in Preventing Excessive Arterial Stiffening. *Current Hypertension Reports*, **2018**, 20, 76	4.7	11
81	Epithelial Sodium Channel in Aldosterone-Induced Endothelium Stiffness and Aortic Dysfunction. *Hypertension*, **2018**, 72, 731-738	8.5	40
80	Metabolic Stress, Autophagy, and Cardiovascular Aging: from Pathophysiology to Therapeutics. *Trends in Endocrinology and Metabolism*, **2018**, 29, 699-711	8.8	59

79	Estrogen receptor alpha mediated activation of the endothelial epithelial sodium channel: role in the genesis of arterial stiffness. *FASEB Journal*, **2018**, 32, 846.7	0.9	
78	Cellular mechanisms underlying obesity-induced arterial stiffness. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **2018**, 314, R387-R398	3.2	66
77	Diabetic cardiomyopathy: a hyperglycaemia- and insulin-resistance-induced heart disease. *Diabetologia*, **2018**, 61, 21-28	10.3	268
76	Absence of Endothelial ER Results in Arterial Remodeling and Decreased Stiffness in Western Diet-Fed Male Mice. *Endocrinology*, **2017**, 158, 1875-1885	4.8	6
75	Sodium glucose transporter 2 (SGLT2) inhibition with empagliflozin improves cardiac diastolic function in a female rodent model of diabetes. *Cardiovascular Diabetology*, **2017**, 16, 9	8.7	134
74	Xanthine oxidase inhibition protects against Western diet-induced aortic stiffness and impaired vasorelaxation in female mice. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **2017**, 313, R67-R77	3.2	17
73	Obesity and kidney disease: from population to basic science and the search for new therapeutic targets. *Kidney International*, **2017**, 92, 313-323	9.9	70
72	Role of mineralocorticoid receptor activation in cardiac diastolic dysfunction. *Biochimica Et Biophysica Acta - Molecular Basis of Disease*, **2017**, 1863, 2012-2018	6.9	14
71	Insulin Resistance in Kidney Disease: Is There a Distinct Role Separate from That of Diabetes or Obesity?. *CardioRenal Medicine*, **2017**, 8, 41-49	2.8	37
70	Uric acid promotes vascular stiffness, maladaptive inflammatory responses and proteinuria in western diet fed mice. *Metabolism: Clinical and Experimental*, **2017**, 74, 32-40	12.7	36
69	Dipeptidyl peptidase-4 (DPP-4) inhibition with linagliptin reduces western diet-induced myocardial TRAF3IP2 expression, inflammation and fibrosis in female mice. *Cardiovascular Diabetology*, **2017**, 16, 61	8.7	38
68	Daily exercise prevents diastolic dysfunction and oxidative stress in a female mouse model of western diet induced obesity by maintaining cardiac heme oxygenase-1 levels. *Metabolism: Clinical and Experimental*, **2017**, 66, 14-22	12.7	19
67	The Renin Angiotensin Aldosterone System in Obesity and Hypertension: Roles in the Cardiorenal Metabolic Syndrome. *Medical Clinics of North America*, **2017**, 101, 129-137	7	92
66	The role of mineralocorticoid receptor signaling in the cross-talk between adipose tissue and the vascular wall. *Cardiovascular Research*, **2017**, 113, 1055-1063	9.9	30
65	Amiloride Improves Endothelial Function and Reduces Vascular Stiffness in Female Mice Fed a Western Diet. *Frontiers in Physiology*, **2017**, 8, 456	4.6	29
64	Fibroblast Growth Factor 23 and Hypophosphatemia: A Case of Hypophosphatemia along the Rickets-Osteomalacia Spectrum. *CardioRenal Medicine*, **2016**, 7, 60-65	2.8	2
63	Dipeptidyl peptidase-4 inhibition with linagliptin prevents western diet-induced vascular abnormalities in female mice. *Cardiovascular Diabetology*, **2016**, 15, 94	8.7	29
62	Glucagon-Like Peptide 1 Receptor Activation and Platelet Function: Beyond Glycemic Control. *Diabetes*, **2016**, 65, 1487-9	0.9	11

61	Treatment of hypertension in diabetes: a contemporary approach with a focus on improving cardiovascular outcomes. *Expert Review of Endocrinology and Metabolism*, **2016**, 11, 41-50	4.1	2
60	Insulin resistance and hyperinsulinaemia in diabetic cardiomyopathy. *Nature Reviews Endocrinology*, **2016**, 12, 144-53	15.2	383
59	Endothelial Mineralocorticoid Receptor Mediates Diet-Induced Aortic Stiffness in Females. *Circulation Research*, **2016**, 118, 935-943	15.7	109
58	Aerobic exercise training in the treatment of non-alcoholic fatty liver disease related fibrosis. *Journal of Physiology*, **2016**, 594, 5271-84	3.9	31
57	Uncovering a Mineralocorticoid Receptor-Dependent Adipose-Vascular Axis: Implications for Vascular Dysfunction in Obesity?. *Diabetes*, **2016**, 65, 2127-9	0.9	1
56	Contribution of Maladaptive Adipose Tissue Expansion to Development of Cardiovascular Disease. *Comprehensive Physiology*, **2016**, 7, 253-262	7.7	19
55	A Possible New Multiple Endocrine Neoplasia Mutation in a Patient with a Prototypic Multiple Endocrine Neoplasia Presentation. *CardioRenal Medicine*, **2016**, 6, 129-34	2.8	3
54	Blood Pressure-Related Outcomes in a Diabetic Population. *Hypertension*, **2016**, 68, 34-5	8.5	3
53	Psychological Distress and Hypertension: Results from the National Health Interview Survey for 2004-2013. *CardioRenal Medicine*, **2016**, 6, 198-208	2.8	24
52	Endothelium-Derived Hyperpolarizing Factors: A Potential Therapeutic Target for Vascular Dysfunction in Obesity and Insulin Resistance. *Diabetes*, **2016**, 65, 2118-20	0.9	18
51	Mineralocorticoid receptors: an appealing target to treat coronary microvascular dysfunction in diabetes. *Diabetes*, **2015**, 64, 3-5	0.9	8
50	Mineralocorticoid receptor antagonism treats obesity-associated cardiac diastolic dysfunction. *Hypertension*, **2015**, 65, 1082-8	8.5	70
49	The reply. *American Journal of Medicine*, **2015**, 128, e11	2.4	
48	Low-Dose Mineralocorticoid Receptor Blockade Prevents Western Diet-Induced Arterial Stiffening in Female Mice. *Hypertension*, **2015**, 66, 99-107	8.5	107
47	Interaction of Adipogenesis and Angiogenesis in Dietary-Induced Obesity. *Diabetes*, **2015**, 64, 2326-8	0.9	9
46	Mineralocorticoid receptor blockade prevents Western diet-induced diastolic dysfunction in female mice. *American Journal of Physiology - Heart and Circulatory Physiology*, **2015**, 308, H1126-35	5.2	52
45	Uric acid promotes left ventricular diastolic dysfunction in mice fed a Western diet. *Hypertension*, **2015**, 65, 531-9	8.5	94
44	Ghrelin: a new incretin enhancer therapy?. *Diabetes*, **2015**, 64, 1500-2	0.9	5

43	Caveolin-1 in Cardiovascular Disease: A Double-Edged Sword. *Diabetes*, **2015**, 64, 3645-7	0.9	13
42	Endothelial Mineralocorticoid Receptor Deletion Prevents Diet-Induced Cardiac Diastolic Dysfunction in Females. *Hypertension*, **2015**, 66, 1159-1167	8.5	87
41	The VASP Road to NAFLD: A Macrophage Detour. *Diabetes*, **2015**, 64, 2711-3	0.9	4
40	Autophagy: a housekeeper in cardiorenal metabolic health and disease. *Biochimica Et Biophysica Acta - Molecular Basis of Disease*, **2015**, 1852, 219-24	6.9	41
39	Two-dimensional zymography differentiates gelatinase isoforms in stimulated microglial cells and in brain tissues of acute brain injuries. *PLoS ONE*, **2015**, 10, e0123852	3.7	6
38	Vascular stiffness in insulin resistance and obesity. *Frontiers in Physiology*, **2015**, 6, 231	4.6	64
37	Role of perivascular adipose tissue on vascular reactive oxygen species in type 2 diabetes: a give-and-take relationship. *Diabetes*, **2015**, 64, 1904-6	0.9	11
36	Regional variation in arterial stiffening and dysfunction in Western diet-induced obesity. *American Journal of Physiology - Heart and Circulatory Physiology*, **2015**, 309, H574-82	5.2	41
35	Dipeptidyl peptidase-4 inhibition ameliorates Western diet-induced hepatic steatosis and insulin resistance through hepatic lipid remodeling and modulation of hepatic mitochondrial function. *Diabetes*, **2015**, 64, 1988-2001	0.9	59
34	Role of intestinal Na(+)/H(+) exchanger inhibition in the prevention of cardiovascular and kidney disease. *Annals of Translational Medicine*, **2015**, 3, 91	3.2	6
33	Thyroid and the heart. *American Journal of Medicine*, **2014**, 127, 691-8	2.4	154
32	The pathophysiology of hypertension in patients with obesity. *Nature Reviews Endocrinology*, **2014**, 10, 364-76	15.2	268
31	Overnutrition, mTOR signaling, and cardiovascular diseases. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **2014**, 307, R1198-206	3.2	79
30	Basic science: Pathophysiology: the cardiorenal metabolic syndrome. *Journal of the American Society of Hypertension*, **2014**, 8, 604-6		19
29	Dipeptidyl peptidase inhibition prevents diastolic dysfunction and reduces myocardial fibrosis in a mouse model of Western diet induced obesity. *Metabolism: Clinical and Experimental*, **2014**, 63, 1000-11	12.7	78
28	Type 2 diabetes mellitus and hypertension: an update. *Endocrinology and Metabolism Clinics of North America*, **2014**, 43, 103-22	5.5	159
27	Salt Loading Promotes Kidney Injury via Fibrosis in Young Female Ren2 Rats. *CardioRenal Medicine*, **2014**, 4, 43-52	2.8	7
26	Interaction of islet □cell and □cell in the regulation of glucose homeostasis in HI/HA syndrome patients with the GDH(H454Y) mutation. *Diabetes*, **2014**, 63, 4008-10	0.9	1

25	Application of a novel curcumin analog in the management of diabetic cardiomyopathy. *Diabetes*, **2014**, 63, 3166-8	0.9	15
24	Insulin resistance and skeletal muscle vasculature: significance, assessment and therapeutic modulators. *CardioRenal Medicine*, **2014**, 4, 244-56	2.8	19
23	Cervical neuroendocrine tumor in a young female with Lynch Syndrome. *Neuroendocrinology Letters* , **2014**, 35, 89-94	0.3	5
22	Diabetes mellitus and vascular disease. *Hypertension*, **2013**, 61, 943-7	8.5	106
21	Differential Remodeling Characteristics of Femoral and Mesenteric Arteries from Mice with Diet-Induced Obesity. *FASEB Journal*, **2013**, 27, lb698	0.9	
20	Enhanced coronary vasoconstriction in western diet-induced obesity is associated with alterations in NHE1, SERCA2a and 3. *FASEB Journal*, **2013**, 27, lb660	0.9	
19	Impaired Ca2+ signaling following acutely elevated glucose in mouse endothelial cell tubes. *FASEB Journal*, **2013**, 27, 678.2	0.9	
18	Role of TRIB3 in diabetic and overnutrition-induced atherosclerosis. *Diabetes*, **2012**, 61, 265-6	0.9	9
17	Effect of Age in RAS Activation and Insulin Signaling in the Pancreatic Tissue of db/db Mice. *FASEB Journal*, **2011**, 25, 1063.7	0.9	
16	Angiotensin receptor blocker/diuretic combination preserves insulin responses in obese hypertensives. *Journal of Hypertension*, **2010**, 28, 1761-9	1.9	29
15	Mineralocorticoid Receptor (MR) Inhibition Attenuates High Salt-Aldosterone Induced Increases in Vascular Renin-Angiotensin-Aldoesterone System (RAAS) and Oxidative Stress. *FASEB Journal*, **2009** , 23, 626.18	0.9	
14	Rosuvastatin Attenuates Pulmonary Arterial Hypertension in the Transgenic (mREN2)27 (Ren2) Rat. *FASEB Journal*, **2009**, 23, 770.4	0.9	
13	Mineralcorticoid Receptor (MR) Antagonism Attenuates Glomerular Filtration Barrier Remodeling in the Transgenic Ren2 Rat. *FASEB Journal*, **2009**, 23, 803.16	0.9	
12	Endocrine functions of adipose tissue: focus on adiponectin. *Clinical Cornerstone*, **2008**, 9, 32-8; discussion 39-40		53
11	Initial combination therapy compared with monotherapy in diabetic hypertensive patients. *Journal of Clinical Hypertension*, **2008**, 10, 668-76	2.3	9
10	Effect of strain at low-frequency loading on peri-implant bone (re)modelling: a guinea-pig experimental study. *Journal of the Cardiometabolic Syndrome*, **2008**, 19, 733-9		7
9	Experimental Hypertension is Associated with Differential Expression of Angiotensin-(1-12) in Heart of Hypertensive and Normotensive Rats. *FASEB Journal*, **2008**, 22, 1210.20	0.9	
8	Renin Inhibition Attenuates Ang II Induced Oxidative Stress and Remodeling in the Pancreas of the Ren2 Rat (tg (mREN2)27). *FASEB Journal*, **2008**, 22, 758.12	0.9	

7	Hypertension myocardial fibrosis. *Journal of Clinical Hypertension*, **2007**, 9, 558-9	2.3	3
6	Exercise training maintains cardiac output and stroke volume in hypertensive TG (mREN-2)27 rats with impaired diastolic function. *FASEB Journal*, **2007**, 21, A930	0.9	
5	The Journal of the CardioMetabolic Syndrome : Why It Is Needed. *Journal of the Cardiometabolic Syndrome*, **2006**, 1, 5		5
4	Treatment of hypertension in patients with diabetes. *Archives of Internal Medicine*, **2004**, 164, 1850-7		59
3	Obesity as a cardiovascular risk factor. *American Journal of Medicine*, **2003**, 115 Suppl 8A, 37S-41S	2.4	378
2	Antihypertensive therapy in the geriatric patient. I: A review of the role of calcium channel blockers. *Journal of Clinical Pharmacology*, **1989**, 29, 193-200	2.9	6
1	Evaluation and treatment of patients with prolactin-secreting pituitary tumors. *International Journal of Gynecology and Obstetrics*, **1980**, 17, 421-7	4	2