

James R Sowers

List of Publications by Citations

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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.

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	Diabetic Cardiomyopathy: An Update of Mechanisms Contributing to This Clinical Entity. <i>Circulation Research</i> , 2018 , 122, 624-638	15.7	613
113	Insulin resistance and hyperinsulinaemia in diabetic cardiomyopathy. <i>Nature Reviews Endocrinology</i> , 2016 , 12, 144-53	15.2	383
112	Obesity as a cardiovascular risk factor. <i>American Journal of Medicine</i> , 2003 , 115 Suppl 8A, 37S-41S	2.4	378
111	The pathophysiology of hypertension in patients with obesity. <i>Nature Reviews Endocrinology</i> , 2014 , 10, 364-76	15.2	268
110	Diabetic cardiomyopathy: a hyperglycaemia- and insulin-resistance-induced heart disease. <i>Diabetologia</i> , 2018 , 61, 21-28	10.3	268
109	Targeting autophagy in obesity: from pathophysiology to management. <i>Nature Reviews Endocrinology</i> , 2018 , 14, 356-376	15.2	166
108	Type 2 diabetes mellitus and hypertension: an update. <i>Endocrinology and Metabolism Clinics of North America</i> , 2014 , 43, 103-22	5.5	159
107	Thyroid and the heart. <i>American Journal of Medicine</i> , 2014 , 127, 691-8	2.4	154
106	Sodium glucose transporter 2 (SGLT2) inhibition with empagliflozin improves cardiac diastolic function in a female rodent model of diabetes. <i>Cardiovascular Diabetology</i> , 2017 , 16, 9	8.7	134
105	Endothelial Mineralocorticoid Receptor Mediates Diet-Induced Aortic Stiffness in Females. <i>Circulation Research</i> , 2016 , 118, 935-943	15.7	109
104	Covid-19 and Disparities in Nutrition and Obesity. <i>New England Journal of Medicine</i> , 2020 , 383, e69	59.2	108
103	Low-Dose Mineralocorticoid Receptor Blockade Prevents Western Diet-Induced Arterial Stiffening in Female Mice. <i>Hypertension</i> , 2015 , 66, 99-107	8.5	107
102	Diabetes mellitus and vascular disease. <i>Hypertension</i> , 2013 , 61, 943-7	8.5	106
101	Endothelial cell senescence in aging-related vascular dysfunction. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2019 , 1865, 1802-1809	6.9	105
100	Uric acid promotes left ventricular diastolic dysfunction in mice fed a Western diet. <i>Hypertension</i> , 2015 , 65, 531-9	8.5	94
99	The Renin Angiotensin Aldosterone System in Obesity and Hypertension: Roles in the Cardiorenal Metabolic Syndrome. <i>Medical Clinics of North America</i> , 2017 , 101, 129-137	7	92
98	Commentary: COVID-19 in patients with diabetes. <i>Metabolism: Clinical and Experimental</i> , 2020 , 107, 1542177		89

97	Endothelial Mineralocorticoid Receptor Deletion Prevents Diet-Induced Cardiac Diastolic Dysfunction in Females. <i>Hypertension</i> , 2015 , 66, 1159-1167	8.5	87
96	Overnutrition, mTOR signaling, and cardiovascular diseases. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2014 , 307, R1198-206	3.2	79
95	Dipeptidyl peptidase inhibition prevents diastolic dysfunction and reduces myocardial fibrosis in a mouse model of Western diet induced obesity. <i>Metabolism: Clinical and Experimental</i> , 2014 , 63, 1000-11	12.7	78
94	Glycemic control by the SGLT2 inhibitor empagliflozin decreases aortic stiffness, renal resistivity index and kidney injury. <i>Cardiovascular Diabetology</i> , 2018 , 17, 108	8.7	72
93	Obesity and kidney disease: from population to basic science and the search for new therapeutic targets. <i>Kidney International</i> , 2017 , 92, 313-323	9.9	70
92	Mineralocorticoid receptor antagonism treats obesity-associated cardiac diastolic dysfunction. <i>Hypertension</i> , 2015 , 65, 1082-8	8.5	70
91	Autophagy as an emerging target in cardiorenal metabolic disease: From pathophysiology to management. <i>Pharmacology & Therapeutics</i> , 2018 , 191, 1-22	13.9	70
90	Cellular mechanisms underlying obesity-induced arterial stiffness. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2018 , 314, R387-R398	3.2	66
89	Vascular stiffness in insulin resistance and obesity. <i>Frontiers in Physiology</i> , 2015 , 6, 231	4.6	64
88	Metabolic Stress, Autophagy, and Cardiovascular Aging: from Pathophysiology to Therapeutics. <i>Trends in Endocrinology and Metabolism</i> , 2018 , 29, 699-711	8.8	59
87	Dipeptidyl peptidase-4 inhibition ameliorates Western diet-induced hepatic steatosis and insulin resistance through hepatic lipid remodeling and modulation of hepatic mitochondrial function. <i>Diabetes</i> , 2015 , 64, 1988-2001	0.9	59
86	Treatment of hypertension in patients with diabetes. <i>Archives of Internal Medicine</i> , 2004 , 164, 1850-7		59
85	Role of Renin-Angiotensin-Aldosterone System Activation in Promoting Cardiovascular Fibrosis and Stiffness. <i>Hypertension</i> , 2018 , 72, 537-548	8.5	56
84	Endocrine functions of adipose tissue: focus on adiponectin. <i>Clinical Cornerstone</i> , 2008 , 9, 32-8; discussion 39-40		53
83	Mineralocorticoid receptor blockade prevents Western diet-induced diastolic dysfunction in female mice. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2015 , 308, H1126-35	5.2	52
82	Autophagy: a housekeeper in cardiorenal metabolic health and disease. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2015 , 1852, 219-24	6.9	41
81	Regional variation in arterial stiffening and dysfunction in Western diet-induced obesity. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2015 , 309, H574-82	5.2	41
80	Epithelial Sodium Channel in Aldosterone-Induced Endothelium Stiffness and Aortic Dysfunction. <i>Hypertension</i> , 2018 , 72, 731-738	8.5	40

79	Dipeptidyl peptidase-4 (DPP-4) inhibition with linagliptin reduces western diet-induced myocardial TRAF3IP2 expression, inflammation and fibrosis in female mice. <i>Cardiovascular Diabetology</i> , 2017 , 16, 61	8.7	38
78	Insulin Resistance in Kidney Disease: Is There a Distinct Role Separate from That of Diabetes or Obesity?. <i>CardioRenal Medicine</i> , 2017 , 8, 41-49	2.8	37
77	Uric acid promotes vascular stiffness, maladaptive inflammatory responses and proteinuria in western diet fed mice. <i>Metabolism: Clinical and Experimental</i> , 2017 , 74, 32-40	12.7	36
76	Obesity, Adipose Tissue and Vascular Dysfunction. <i>Circulation Research</i> , 2021 , 128, 951-968	15.7	31
75	Aerobic exercise training in the treatment of non-alcoholic fatty liver disease related fibrosis. <i>Journal of Physiology</i> , 2016 , 594, 5271-84	3.9	31
74	The role of mineralocorticoid receptor signaling in the cross-talk between adipose tissue and the vascular wall. <i>Cardiovascular Research</i> , 2017 , 113, 1055-1063	9.9	30
73	Dipeptidyl peptidase-4 inhibition with linagliptin prevents western diet-induced vascular abnormalities in female mice. <i>Cardiovascular Diabetology</i> , 2016 , 15, 94	8.7	29
72	Amiloride Improves Endothelial Function and Reduces Vascular Stiffness in Female Mice Fed a Western Diet. <i>Frontiers in Physiology</i> , 2017 , 8, 456	4.6	29
71	Angiotensin receptor blocker/diuretic combination preserves insulin responses in obese hypertensives. <i>Journal of Hypertension</i> , 2010 , 28, 1761-9	1.9	29
70	Diet-Induced Obesity Promotes Kidney Endothelial Stiffening and Fibrosis Dependent on the Endothelial Mineralocorticoid Receptor. <i>Hypertension</i> , 2019 , 73, 849-858	8.5	28
69	Enhanced endothelium epithelial sodium channel signaling prompts left ventricular diastolic dysfunction in obese female mice. <i>Metabolism: Clinical and Experimental</i> , 2018 , 78, 69-79	12.7	28
68	Epithelial sodium channels in endothelial cells mediate diet-induced endothelium stiffness and impaired vascular relaxation in obese female mice. <i>Metabolism: Clinical and Experimental</i> , 2019 , 99, 57-66	12.7	26
67	Insulin resistance, cardiovascular stiffening and cardiovascular disease. <i>Metabolism: Clinical and Experimental</i> , 2021 , 119, 154766	12.7	24
66	Psychological Distress and Hypertension: Results from the National Health Interview Survey for 2004-2013. <i>CardioRenal Medicine</i> , 2016 , 6, 198-208	2.8	24
65	Commentary: COVID-19 and obesity pandemics converge into a syndemic requiring urgent and multidisciplinary action. <i>Metabolism: Clinical and Experimental</i> , 2021 , 114, 154408	12.7	21
64	Diabetes and Cardiovascular Disease: an Update. <i>Current Diabetes Reports</i> , 2019 , 19, 161	5.6	20
63	Basic science: Pathophysiology: the cardiorenal metabolic syndrome. <i>Journal of the American Society of Hypertension</i> , 2014 , 8, 604-6		19
62	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. <i>Metabolism: Clinical and Experimental</i> , 2017 , 66, 14-22	12.7	19

61	Insulin resistance and skeletal muscle vasculature: significance, assessment and therapeutic modulators. <i>CardioRenal Medicine</i> , 2014 , 4, 244-56	2.8	19
60	Contribution of Maladaptive Adipose Tissue Expansion to Development of Cardiovascular Disease. <i>Comprehensive Physiology</i> , 2016 , 7, 253-262	7.7	19
59	Endothelium-Derived Hyperpolarizing Factors: A Potential Therapeutic Target for Vascular Dysfunction in Obesity and Insulin Resistance. <i>Diabetes</i> , 2016 , 65, 2118-20	0.9	18
58	Xanthine oxidase inhibition protects against Western diet-induced aortic stiffness and impaired vasorelaxation in female mice. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2017 , 313, R67-R77	3.2	17
57	Application of a novel curcumin analog in the management of diabetic cardiomyopathy. <i>Diabetes</i> , 2014 , 63, 3166-8	0.9	15
56	Role of mineralocorticoid receptor activation in cardiac diastolic dysfunction. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2017 , 1863, 2012-2018	6.9	14
55	Caveolin-1 in Cardiovascular Disease: A Double-Edged Sword. <i>Diabetes</i> , 2015 , 64, 3645-7	0.9	13
54	Glucagon-Like Peptide 1 Receptor Activation and Platelet Function: Beyond Glycemic Control. <i>Diabetes</i> , 2016 , 65, 1487-9	0.9	11
53	Potential Role of Antihypertensive Medications in Preventing Excessive Arterial Stiffening. <i>Current Hypertension Reports</i> , 2018 , 20, 76	4.7	11
52	Role of perivascular adipose tissue on vascular reactive oxygen species in type 2 diabetes: a give-and-take relationship. <i>Diabetes</i> , 2015 , 64, 1904-6	0.9	11
51	Interaction of Adipogenesis and Angiogenesis in Dietary-Induced Obesity. <i>Diabetes</i> , 2015 , 64, 2326-8	0.9	9
50	Diabetes and Hypertension: Clinical Update. <i>American Journal of Hypertension</i> , 2018 , 31, 515-521	2.3	9
49	Role of TRIB3 in diabetic and overnutrition-induced atherosclerosis. <i>Diabetes</i> , 2012 , 61, 265-6	0.9	9
48	Initial combination therapy compared with monotherapy in diabetic hypertensive patients. <i>Journal of Clinical Hypertension</i> , 2008 , 10, 668-76	2.3	9
47	Mineralocorticoid receptors: an appealing target to treat coronary microvascular dysfunction in diabetes. <i>Diabetes</i> , 2015 , 64, 3-5	0.9	8
46	Statins and New-Onset Diabetes in Cardiovascular and Kidney Disease Cohorts: A Meta-Analysis. <i>CardioRenal Medicine</i> , 2018 , 8, 105-112	2.8	8
45	Hypertension in Diabetes: An Update of Basic Mechanisms and Clinical Disease. <i>Hypertension</i> , 2021 , 78, 1197-1205	8.5	8
44	Targeting endothelial exosomes for the prevention of cardiovascular disease. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2020 , 1866, 165833	6.9	8

43	Endothelial sodium channel activation promotes cardiac stiffness and diastolic dysfunction in Western diet fed female mice. <i>Metabolism: Clinical and Experimental</i> , 2020 , 109, 154223	12.7	7
42	Salt Loading Promotes Kidney Injury via Fibrosis in Young Female Ren2 Rats. <i>CardioRenal Medicine</i> , 2014 , 4, 43-52	2.8	7
41	Effect of strain at low-frequency loading on peri-implant bone (re)modelling: a guinea-pig experimental study. <i>Journal of the Cardiometabolic Syndrome</i> , 2008 , 19, 733-9		7
40	Increased Fibro-Adipogenic Progenitors and Intramyocellular Lipid Accumulation in Obesity-Related Skeletal Muscle Dysfunction. <i>Diabetes</i> , 2019 , 68, 18-20	0.9	7
39	Absence of Endothelial ER β Results in Arterial Remodeling and Decreased Stiffness in Western Diet-Fed Male Mice. <i>Endocrinology</i> , 2017 , 158, 1875-1885	4.8	6
38	Two-dimensional zymography differentiates gelatinase isoforms in stimulated microglial cells and in brain tissues of acute brain injuries. <i>PLoS ONE</i> , 2015 , 10, e0123852	3.7	6
37	Antihypertensive therapy in the geriatric patient. I: A review of the role of calcium channel blockers. <i>Journal of Clinical Pharmacology</i> , 1989 , 29, 193-200	2.9	6
36	Role of intestinal Na(+)/H(+) exchanger inhibition in the prevention of cardiovascular and kidney disease. <i>Annals of Translational Medicine</i> , 2015 , 3, 91	3.2	6
35	Ghrelin: a new incretin enhancer therapy?. <i>Diabetes</i> , 2015 , 64, 1500-2	0.9	5
34	The Journal of the CardioMetabolic Syndrome : Why It Is Needed. <i>Journal of the Cardiometabolic Syndrome</i> , 2006 , 1, 5		5
33	Cervical neuroendocrine tumor in a young female with Lynch Syndrome. <i>Neuroendocrinology Letters</i> , 2014 , 35, 89-94	0.3	5
32	Mineralocorticoid receptors in the pathogenesis of insulin resistance and related disorders: from basic studies to clinical disease. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2021 , 320, R276-R286	3.2	5
31	The VASP Road to NAFLD: A Macrophage Detour. <i>Diabetes</i> , 2015 , 64, 2711-3	0.9	4
30	Sacubitril/valsartan inhibits obesity-associated diastolic dysfunction through suppression of ventricular-vascular stiffness. <i>Cardiovascular Diabetology</i> , 2021 , 20, 80	8.7	4
29	Utility of obesity and metabolic dyslipidemia (a non-insulin based determinate of the metabolic syndrome and insulin resistance) in predicting arterial stiffness. <i>Journal of Clinical Hypertension</i> , 2019 , 21, 1071-1074	2.3	3
28	Hypertension myocardial fibrosis. <i>Journal of Clinical Hypertension</i> , 2007 , 9, 558-9	2.3	3
27	A Possible New Multiple Endocrine Neoplasia Mutation in a Patient with a Prototypic Multiple Endocrine Neoplasia Presentation. <i>CardioRenal Medicine</i> , 2016 , 6, 129-34	2.8	3
26	Blood Pressure-Related Outcomes in a Diabetic Population. <i>Hypertension</i> , 2016 , 68, 34-5	8.5	3

25	Fibroblast Growth Factor 23 and Hypophosphatemia: A Case of Hypophosphatemia along the Rickets-Osteomalacia Spectrum. <i>CardioRenal Medicine</i> , 2016 , 7, 60-65	2.8	2
24	Mineralocorticoid antagonists and ENaC inhibitors in hyperaldosteronism. <i>Journal of Clinical Hypertension</i> , 2019 , 21, 929-931	2.3	2
23	Renal resistive index as a novel biomarker for cardiovascular and kidney risk reduction in type II diabetes. <i>Journal of Clinical Hypertension</i> , 2020 , 22, 231-233	2.3	2
22	Treatment of hypertension in diabetes: a contemporary approach with a focus on improving cardiovascular outcomes. <i>Expert Review of Endocrinology and Metabolism</i> , 2016 , 11, 41-50	4.1	2
21	Evaluation and treatment of patients with prolactin-secreting pituitary tumors. <i>International Journal of Gynecology and Obstetrics</i> , 1980 , 17, 421-7	4	2
20	Targeting mineralocorticoid receptors in diet-induced hepatic steatosis and insulin resistance.. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2022 ,	3.2	2
19	Interaction of islet β cell and δ cell in the regulation of glucose homeostasis in HI/HA syndrome patients with the GDH(H454Y) mutation. <i>Diabetes</i> , 2014 , 63, 4008-10	0.9	1
18	DPP4 inhibition mitigates ANG II-mediated kidney immune activation and injury in male mice. <i>American Journal of Physiology - Renal Physiology</i> , 2021 , 320, F505-F517	4.3	1
17	Uncovering a Mineralocorticoid Receptor-Dependent Adipose-Vascular Axis: Implications for Vascular Dysfunction in Obesity?. <i>Diabetes</i> , 2016 , 65, 2127-9	0.9	1
16	Cell death regulation by MAMs: From molecular mechanisms to therapeutic implications in cardiovascular diseases. <i>Cell Death and Disease</i> , 2022 , 13,	9.8	1
15	Endothelial sodium channel activation mediates DOCA-salt-induced endothelial cell and arterial stiffening.. <i>Metabolism: Clinical and Experimental</i> , 2022 , 130, 155165	12.7	0
14	Inhibition of sphingomyelinase attenuates diet - Induced increases in aortic stiffness.. <i>Journal of Molecular and Cellular Cardiology</i> , 2022 , 167, 32-39	5.8	0
13	The reply. <i>American Journal of Medicine</i> , 2015 , 128, e11	2.4	
12	Management of hypertension in patients with COVID-19: Implication of angiotensin-converting enzyme 2.. <i>Cardiology Plus</i> , 2021 , 6, 210-217	0.3	
11	Exercise training maintains cardiac output and stroke volume in hypertensive TG (mREN-2)27 rats with impaired diastolic function. <i>FASEB Journal</i> , 2007 , 21, A930	0.9	
10	Experimental Hypertension is Associated with Differential Expression of Angiotensin-(1 β 2) in Heart of Hypertensive and Normotensive Rats. <i>FASEB Journal</i> , 2008 , 22, 1210.20	0.9	
9	Renin Inhibition Attenuates Ang II Induced Oxidative Stress and Remodeling in the Pancreas of the Ren2 Rat (tg (mREN2)27). <i>FASEB Journal</i> , 2008 , 22, 758.12	0.9	
8	Estrogen receptor alpha mediated activation of the endothelial epithelial sodium channel: role in the genesis of arterial stiffness. <i>FASEB Journal</i> , 2018 , 32, 846.7	0.9	

- 7 Mineralocorticoid Receptor (MR) Inhibition Attenuates High Salt-Aldosterone Induced Increases in Vascular Renin-Angiotensin-Aldosterone System (RAAS) and Oxidative Stress. *FASEB Journal*, **2009**, 23, 626.18 0.9
- 6 Rosuvastatin Attenuates Pulmonary Arterial Hypertension in the Transgenic (mREN2)27 (Ren2) Rat. *FASEB Journal*, **2009**, 23, 770.4 0.9
- 5 Mineralocorticoid Receptor (MR) Antagonism Attenuates Glomerular Filtration Barrier Remodeling in the Transgenic Ren2 Rat. *FASEB Journal*, **2009**, 23, 803.16 0.9
- 4 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
- 3 Differential Remodeling Characteristics of Femoral and Mesenteric Arteries from Mice with Diet-Induced Obesity. *FASEB Journal*, **2013**, 27, lb698 0.9
- 2 Enhanced coronary vasoconstriction in western diet-induced obesity is associated with alterations in NHE1, SERCA2a and 3. *FASEB Journal*, **2013**, 27, lb660 0.9
- 1 Impaired Ca²⁺ signaling following acutely elevated glucose in mouse endothelial cell tubes. *FASEB Journal*, **2013**, 27, 678.2 0.9