

James R Sowers

List of Publications by Year in descending order

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Version: 2024-02-01

118
papers

8,806
citations

66343

42
h-index

46799

89
g-index

118
all docs

118
docs citations

118
times ranked

12217
citing authors

#	ARTICLE	IF	CITATIONS
1	Diabetic Cardiomyopathy. <i>Circulation Research</i> , 2018, 122, 624-638.	4.5	1,076
2	Insulin resistance and hyperinsulinaemia in diabetic cardiomyopathy. <i>Nature Reviews Endocrinology</i> , 2016, 12, 144-153.	9.6	597
3	Diabetic cardiomyopathy: a hyperglycaemia- and insulin-resistance-induced heart disease. <i>Diabetologia</i> , 2018, 61, 21-28.	6.3	501
4	Obesity as a cardiovascular risk factor. <i>American Journal of Medicine</i> , 2003, 115, 37-41.	1.5	447
5	Fibroblast Growth Factor 23 and Hypophosphatemia: A Case of Hypophosphatemia along the Rickets-Osteomalacia Spectrum. <i>CardioRenal Medicine</i> , 2017, 7, 60-65.	1.9	443
6	The pathophysiology of hypertension in patients with obesity. <i>Nature Reviews Endocrinology</i> , 2014, 10, 364-376.	9.6	376
7	Targeting autophagy in obesity: from pathophysiology to management. <i>Nature Reviews Endocrinology</i> , 2018, 14, 356-376.	9.6	244
8	Obesity, Adipose Tissue and Vascular Dysfunction. <i>Circulation Research</i> , 2021, 128, 951-968.	4.5	243
9	Endothelial cell senescence in aging-related vascular dysfunction. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2019, 1865, 1802-1809.	3.8	232
10	Type 2 Diabetes Mellitus and Hypertension. <i>Endocrinology and Metabolism Clinics of North America</i> , 2014, 43, 103-122.	3.2	231
11	Insulin resistance, cardiovascular stiffening and cardiovascular disease. <i>Metabolism: Clinical and Experimental</i> , 2021, 119, 154766.	3.4	231
12	Thyroid and the Heart. <i>American Journal of Medicine</i> , 2014, 127, 691-698.	1.5	217
13	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.	6.8	205
14	Covid-19 and Disparities in Nutrition and Obesity. <i>New England Journal of Medicine</i> , 2020, 383, e69.	27.0	180
15	Endothelial Mineralocorticoid Receptor Mediates Diet-Induced Aortic Stiffness in Females. <i>Circulation Research</i> , 2016, 118, 935-943.	4.5	142
16	Diabetes Mellitus and Vascular Disease. <i>Hypertension</i> , 2013, 61, 943-947.	2.7	136
17	Commentary: COVID-19 in patients with diabetes. <i>Metabolism: Clinical and Experimental</i> , 2020, 107, 154217.	3.4	136
18	Low-Dose Mineralocorticoid Receptor Blockade Prevents Western Diet-Induced Arterial Stiffening in Female Mice. <i>Hypertension</i> , 2015, 66, 99-107.	2.7	125

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19	The Renin Angiotensin Aldosterone System in Obesity and Hypertension. <i>Medical Clinics of North America</i> , 2017, 101, 129-137.	2.5	118
20	Uric Acid Promotes Left Ventricular Diastolic Dysfunction in Mice Fed a Western Diet. <i>Hypertension</i> , 2015, 65, 531-539.	2.7	114
21	Cellular mechanisms underlying obesity-induced arterial stiffness. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2018, 314, R387-R398.	1.8	112
22	Glycemic control by the SGLT2 inhibitor empagliflozin decreases aortic stiffness, renal resistivity index and kidney injury. <i>Cardiovascular Diabetology</i> , 2018, 17, 108.	6.8	112
23	Role of Renin-Angiotensin-Aldosterone System Activation in Promoting Cardiovascular Fibrosis and Stiffness. <i>Hypertension</i> , 2018, 72, 537-548.	2.7	112
24	Endothelial Mineralocorticoid Receptor Deletion Prevents Diet-Induced Cardiac Diastolic Dysfunction in Females. <i>Hypertension</i> , 2015, 66, 1159-1167.	2.7	111
25	Vascular stiffness in insulin resistance and obesity. <i>Frontiers in Physiology</i> , 2015, 6, 231.	2.8	100
26	Autophagy as an emerging target in cardiorenal metabolic disease: From pathophysiology to management. , 2018, 191, 1-22.		100
27	Overnutrition, mTOR signaling, and cardiovascular diseases. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2014, 307, R1198-R1206.	1.8	96
28	Obesity and kidney disease: from population to basic science and the search for new therapeutic targets. <i>Kidney International</i> , 2017, 92, 313-323.	5.2	93
29	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, 1000-1011.	3.4	86
30	Hypertension in Diabetes: An Update of Basic Mechanisms and Clinical Disease. <i>Hypertension</i> , 2021, 78, 1197-1205.	2.7	85
31	Mineralocorticoid Receptor Antagonism Treats Obesity-Associated Cardiac Diastolic Dysfunction. <i>Hypertension</i> , 2015, 65, 1082-1088.	2.7	84
32	Metabolic Stress, Autophagy, and Cardiovascular Aging: from Pathophysiology to Therapeutics. <i>Trends in Endocrinology and Metabolism</i> , 2018, 29, 699-711.	7.1	83
33	Treatment of Hypertension in Patients With Diabetes. <i>Archives of Internal Medicine</i> , 2004, 164, 1850.	3.8	74
34	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.	0.6	69
35	Insulin Resistance in Kidney Disease: Is There a Distinct Role Separate from That of Diabetes or Obesity. <i>CardioRenal Medicine</i> , 2018, 8, 41-49.	1.9	65
36	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-H1135.	3.2	64

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37	Endocrine Functions of Adipose Tissue: Focus on Adiponectin. <i>Clinical Cornerstone</i> , 2008, 9, 32-40.	0.7	62
38	Epithelial Sodium Channel in Aldosterone-Induced Endothelium Stiffness and Aortic Dysfunction. <i>Hypertension</i> , 2018, 72, 731-738.	2.7	61
39	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.	6.8	58
40	Diabetes and Cardiovascular Disease: an Update. <i>Current Diabetes Reports</i> , 2019, 19, 161.	4.2	53
41	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-H582.	3.2	51
42	Autophagy: A housekeeper in cardiorenal metabolic health and disease. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2015, 1852, 219-224.	3.8	49
43	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.	3.4	49
44	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.	3.8	47
45	Aerobic exercise training in the treatment of non-alcoholic fatty liver disease related fibrosis. <i>Journal of Physiology</i> , 2016, 594, 5271-5284.	2.9	45
46	Diet-Induced Obesity Promotes Kidney Endothelial Stiffening and Fibrosis Dependent on the Endothelial Mineralocorticoid Receptor. <i>Hypertension</i> , 2019, 73, 849-858.	2.7	41
47	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.	3.4	40
48	Psychological Distress and Hypertension: Results from the National Health Interview Survey for 2004-2013. <i>CardioRenal Medicine</i> , 2016, 6, 198-208.	1.9	39
49	Amiloride Improves Endothelial Function and Reduces Vascular Stiffness in Female Mice Fed a Western Diet. <i>Frontiers in Physiology</i> , 2017, 8, 456.	2.8	37
50	Dipeptidyl peptidase-4 inhibition with linagliptin prevents western diet-induced vascular abnormalities in female mice. <i>Cardiovascular Diabetology</i> , 2016, 15, 94.	6.8	36
51	Endothelial Dysfunction Potentially Interacts With Impaired Glucose Metabolism to Increase Cardiovascular Risk. <i>Hypertension</i> , 2014, 64, 1192-1193.	2.7	35
52	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.	3.4	35
53	Angiotensin receptor blocker/diuretic combination preserves insulin responses in obese hypertensives. <i>Journal of Hypertension</i> , 2010, 28, 1761-1769.	0.5	34
54	Basic science. <i>Journal of the American Society of Hypertension</i> , 2014, 8, 604-606.	2.3	32

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55	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.	3.4	32
56	Commentary: COVID-19 and obesity pandemics converge into a syndemic requiring urgent and multidisciplinary action. <i>Metabolism: Clinical and Experimental</i> , 2021, 114, 154408.	3.4	28
57	Contribution of Maladaptive Adipose Tissue Expansion to Development of Cardiovascular Disease. , 2016, 7, 253-262.		23
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.	1.8	23
59	Caveolin-1 in Cardiovascular Disease: A Double-Edged Sword. <i>Diabetes</i> , 2015, 64, 3645-3647.	0.6	22
60	Endothelium-Derived Hyperpolarizing Factors: A Potential Therapeutic Target for Vascular Dysfunction in Obesity and Insulin Resistance. <i>Diabetes</i> , 2016, 65, 2118-2120.	0.6	20
61	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.	1.8	20
62	Cell death regulation by MAMs: from molecular mechanisms to therapeutic implications in cardiovascular diseases. <i>Cell Death and Disease</i> , 2022, 13, .	6.3	20
63	Insulin Resistance and Skeletal Muscle Vasculature: Significance, Assessment and Therapeutic Modulators. <i>CardioRenal Medicine</i> , 2014, 4, 244-256.	1.9	19
64	Application of a Novel Curcumin Analog in the Management of Diabetic Cardiomyopathy. <i>Diabetes</i> , 2014, 63, 3166-3168.	0.6	18
65	Sacubitril/valsartan inhibits obesity-associated diastolic dysfunction through suppression of ventricular-vascular stiffness. <i>Cardiovascular Diabetology</i> , 2021, 20, 80.	6.8	18
66	Role of mineralocorticoid receptor activation in cardiac diastolic dysfunction. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2017, 1863, 2012-2018.	3.8	17
67	Targeting endothelial exosomes for the prevention of cardiovascular disease. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2020, 1866, 165833.	3.8	17
68	Statins and New-Onset Diabetes in Cardiovascular and Kidney Disease Cohorts: A Meta-Analysis. <i>CardioRenal Medicine</i> , 2018, 8, 105-112.	1.9	16
69	Diabetes and Hypertension: Clinical Update. <i>American Journal of Hypertension</i> , 2018, 31, 515-521.	2.0	16
70	Role of Perivascular Adipose Tissue on Vascular Reactive Oxygen Species in Type 2 Diabetes: A Give-and-Take Relationship. <i>Diabetes</i> , 2015, 64, 1904-1906.	0.6	15
71	Potential Role of Antihypertensive Medications in Preventing Excessive Arterial Stiffening. <i>Current Hypertension Reports</i> , 2018, 20, 76.	3.5	15
72	Metabolic Derangements in the Insulin-Resistant Heart. <i>Journal of the Cardiometabolic Syndrome</i> , 2006, 1, 102-106.	1.7	13

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73	Initial Combination Therapy Compared With Monotherapy in Diabetic Hypertensive Patients. <i>Journal of Clinical Hypertension</i> , 2008, 10, 668-676.	2.0	13
74	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.	3.4	13
75	Glucagon-Like Peptide 1 Receptor Activation and Platelet Function: Beyond Glycemic Control. <i>Diabetes</i> , 2016, 65, 1487-1489.	0.6	12
76	Increased Fibro-Adipogenic Progenitors and Intramyocellular Lipid Accumulation in Obesity-Related Skeletal Muscle Dysfunction. <i>Diabetes</i> , 2019, 68, 18-20.	0.6	12
77	Role of TRIB3 in Diabetic and Overnutrition-Induced Atherosclerosis. <i>Diabetes</i> , 2012, 61, 265-266.	0.6	11
78	Salt Loading Promotes Kidney Injury via Fibrosis in Young Female Ren2 Rats. <i>CardioRenal Medicine</i> , 2014, 4, 43-52.	1.9	10
79	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.	2.5	10
80	Interaction of Adipogenesis and Angiogenesis in Dietary-Induced Obesity. <i>Diabetes</i> , 2015, 64, 2326-2328.	0.6	10
81	Absence of Endothelial ER α Results in Arterial Remodeling and Decreased Stiffness in Western Diet-Fed Male Mice. <i>Endocrinology</i> , 2017, 158, 1875-1885.	2.8	10
82	Mineralocorticoid Receptors: An Appealing Target to Treat Coronary Microvascular Dysfunction in Diabetes: Figure 1. <i>Diabetes</i> , 2015, 64, 3-5.	0.6	9
83	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.	2.7	7
84	Endothelial sodium channel activation mediates DOCA-salt-induced endothelial cell and arterial stiffening. <i>Metabolism: Clinical and Experimental</i> , 2022, 130, 155165.	3.4	7
85	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.	2.0	6
86	The Journal of the CardioMetabolic Syndrome : Why It Is Needed. <i>Journal of the Cardiometabolic Syndrome</i> , 2006, 1, 5-5.	1.7	6
87	Ghrelin: A New Incretin Enhancer Therapy?. <i>Diabetes</i> , 2015, 64, 1500-1502.	0.6	6
88	Utility of obesity and metabolic dyslipidemia (a non-insulin based determinate of the metabolic) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 2019, 21, 1071-1074.	2.0	6
89	Role of intestinal Na(+)/H(+) exchanger inhibition in the prevention of cardiovascular and kidney disease. <i>Annals of Translational Medicine</i> , 2015, 3, 91.	1.7	6
90	Targeting mineralocorticoid receptors in diet-induced hepatic steatosis and insulin resistance. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2022, 322, R253-R262.	1.8	6

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91	Inhibition of sphingomyelinase attenuates diet-induced increases in aortic stiffness. <i>Journal of Molecular and Cellular Cardiology</i> , 2022, 167, 32-39.	1.9	6
92	Blood Pressure-Related Outcomes in a Diabetic Population. <i>Hypertension</i> , 2016, 68, 34-35.	2.7	5
93	Maternal Exposure to High Fructose and Offspring Health. <i>Hypertension</i> , 2019, 74, 499-501.	2.7	5
94	Mineralocorticoid antagonists and ENaC inhibitors in hyperaldosteronism. <i>Journal of Clinical Hypertension</i> , 2019, 21, 929-931.	2.0	5
95	Cervical neuroendocrine tumor in a young female with Lynch Syndrome. <i>Neuroendocrinology Letters</i> , 2014, 35, 89-94.	0.2	5
96	The VASP Road to NAFLD: A Macrophage Detour. <i>Diabetes</i> , 2015, 64, 2711-2713.	0.6	4
97	A Possible New Multiple Endocrine Neoplasia Mutation in a Patient with a Prototypic Multiple Endocrine Neoplasia Presentation. <i>CardioRenal Medicine</i> , 2016, 6, 129-134.	1.9	4
98	Hypertension Myocardial Fibrosis. <i>Journal of Clinical Hypertension</i> , 2007, 9, 558-559.	2.0	3
99	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.	2.4	3
100	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.	2.0	3
101	Evaluation and Treatment of Patients with Prolactin-Secreting Pituitary Tumors. <i>International Journal of Gynecology and Obstetrics</i> , 1980, 17, 421-427.	2.3	2
102	Interaction of Islet β -Cell and δ -Cell in the Regulation of Glucose Homeostasis in HI/HA Syndrome Patients With the GDHH454Y Mutation. <i>Diabetes</i> , 2014, 63, 4008-4010.	0.6	2
103	Uncovering a Mineralocorticoid Receptor-Dependent Adipose-Vascular Axis: Implications for Vascular Dysfunction in Obesity?. <i>Diabetes</i> , 2016, 65, 2127-2129.	0.6	2
104	Management of Hypertension in Patients with COVID-19: Implication of Angiotensin-Converting Enzyme 2. <i>Cardiology Plus</i> , 2021, 6, 210-217.	0.7	1
105	Basic Research and Clinical Practice: Bench to Bedside. <i>Journal of the Cardiometabolic Syndrome</i> , 2006, 1, 89-89.	1.7	0
106	The Reply. <i>American Journal of Medicine</i> , 2015, 128, e11.	1.5	0
107	Exercise training maintains cardiac output and stroke volume in hypertensive TG (mRen2)27 rats with impaired diastolic function. <i>FASEB Journal</i> , 2007, 21, A930.	0.5	0
108	Experimental Hypertension is Associated with Differential Expression of Angiotensin(1-12) in Heart of Hypertensive and Normotensive Rats. <i>FASEB Journal</i> , 2008, 22, 1210.20.	0.5	0

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109	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.	0.5	0
110	Mineralocorticoid Receptor (MR) Inhibition Attenuates High Salt-Induced Increases in Vascular Renin-Angiotensin-Aldosterone System (RAAS) and Oxidative Stress. FASEB Journal, 2009, 23, 626.18.	0.5	0
111	Rosuvastatin Attenuates Pulmonary Arterial Hypertension in the Transgenic (mREN2)27 (Ren2) Rat. FASEB Journal, 2009, 23, 770.4.	0.5	0
112	Mineralocorticoid Receptor (MR) Antagonism Attenuates Glomerular Filtration Barrier Remodeling in the Transgenic Ren2 Rat. FASEB Journal, 2009, 23, 803.16.	0.5	0
113	Effect of Age in RAS Activation and Insulin Signaling in the Pancreatic Tissue of db/db Mice. FASEB Journal, 2011, 25, 1063.7.	0.5	0
114	Characterization of the coronary vascular transcriptome in a rat model of metabolic syndrome. FASEB Journal, 2013, 27, .	0.5	0
115	Differential Remodeling Characteristics of Femoral and Mesenteric Arteries from Mice with Diet-Induced Obesity. FASEB Journal, 2013, 27, lb698.	0.5	0
116	Enhanced coronary vasoconstriction in western diet-induced obesity is associated with alterations in NHE1, SERCA2a and 3. FASEB Journal, 2013, 27, lb660.	0.5	0
117	Impaired Ca ²⁺ signaling following acutely elevated glucose in mouse endothelial cell tubes. FASEB Journal, 2013, 27, 678.2.	0.5	0
118	Estrogen receptor alpha mediated activation of the endothelial epithelial sodium channel: role in the genesis of arterial stiffness. FASEB Journal, 2018, 32, 846.7.	0.5	0