Casper G Schalkwijk

List of Publications by Year
in descending order

253	12,738	22153	59	32842	100
papers	citations		h-index		g-index

255	255	255	18876
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Vascular complications in diabetes mellitus: the role of endothelial dysfunction. Clinical Science, 2005, 109, 143-159.	4.3	537
2	Associations of C-Reactive Protein With Measures of Obesity, Insulin Resistance, and Subclinical Atherosclerosis in Healthy, Middle-Aged Women. Arteriosclerosis, Thrombosis, and Vascular Biology, 1999, 19, 1986-1991.	2.4	455
3	Crosslinking by advanced glycation end products increases the stiffness of the collagen network in human articular cartilage: A possible mechanism through which age is a risk factor for osteoarthritis. Arthritis and Rheumatism, 2002, 46, 114-123.	6.7	398
4	Disease variants alter transcription factor levels and methylation of their binding sites. Nature Genetics, 2017, 49, 131-138.	21.4	390
5	Identification of context-dependent expression quantitative trait loci in whole blood. Nature Genetics, 2017, 49, 139-145.	21.4	363
6	Methylglyoxal, a Highly Reactive Dicarbonyl Compound, in Diabetes, Its Vascular Complications, and Other Age-Related Diseases. Physiological Reviews, 2020, 100, 407-461.	28.8	293
7	Plasma concentration of C-reactive protein is increased in Type I diabetic patients without clinical macroangiopathy and correlates with markers of endothelial dysfunction: evidence for chronic inflammation. Diabetologia, 1999, 42, 351-357.	6.3	272
8	The role of methylglyoxal and the glyoxalase system in diabetes and other age-related diseases. Clinical Science, 2015, 128, 839-861.	4.3	241
9	Markers of inflammation are cross-sectionally associated with microvascular complications and cardiovascular disease in type 1 diabetes?the EURODIAB Prospective Complications Study. Diabetologia, 2005, 48, 370-378.	6.3	235
10	Analysis of advanced glycation endproducts in selected food items by ultra-performance liquid chromatography tandem mass spectrometry: Presentation of a dietary AGE database. Food Chemistry, 2016, 190, 1145-1150.	8.2	222
11	Higher Plasma Levels of Advanced Glycation End Products Are Associated With Incident Cardiovascular Disease and All-Cause Mortality in Type 1 Diabetes. Diabetes Care, 2011, 34, 442-447.	8.6	202
12	Effects of short-term treatment with metformin on markers of endothelial function and inflammatory activity in type 2 diabetes mellitus: a randomized, placebo-controlled trial. Journal of Internal Medicine, 2005, 257, 100-109.	6.0	194
13	Overexpression of Glyoxalase-I Reduces Hyperglycemia-induced Levels of Advanced Glycation End Products and Oxidative Stress in Diabetic Rats. Journal of Biological Chemistry, 2011, 286, 1374-1380.	3.4	189
14	Inflammation and premature aging in advanced chronic kidney disease. American Journal of Physiology - Renal Physiology, 2017, 313, F938-F950.	2.7	176
15	N ^{Îµ} -(Carboxymethyl)lysine-Receptor for Advanced Glycation End Product Axis Is a Key Modulator of Obesity-Induced Dysregulation of Adipokine Expression and Insulin Resistance. Arteriosclerosis, Thrombosis, and Vascular Biology, 2014, 34, 1199-1208.	2.4	165
16	Hyperglycaemia-induced impairment of endothelium-dependent vasorelaxation in rat mesenteric arteries is mediated by intracellular methylglyoxal levels in a pathway dependent on oxidative stress. Diabetologia, 2010, 53, 989-1000.	6.3	154
17	Blood lipids influence DNA methylation in circulating cells. Genome Biology, 2016, 17, 138.	8.8	154
18	Amadori albumin in type 1 diabetic patients: correlation with markers of endothelial function, association with diabetic nephropathy, and localization in retinal capillaries.. Diabetes, 1999, 48, 2446-2453.	0.6	143

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19	Higher levels of advanced glycation endproducts in human carotid atherosclerotic plaques are associated with a rupture-prone phenotype. European Heart Journal, 2014, 35, 1137-1146.	2.2	138
20	Induction of 1,2-Dicarbonyl Compounds, Intermediates in the Formation of Advanced Glycation End-Products, during Heat-Sterilization of Glucose-Based Peritoneal Dialysis Fluids. Peritoneal Dialysis International, 1999, 19, 325-333.	2.3	137
21	Advanced glycation end products and diabetic foot disease. Diabetes/Metabolism Research and Reviews, 2008, 24, S19-S24.	4.0	135
22	Endothelial Dysfunction and Low-Grade Inflammation Are Associated With Greater Arterial Stiffness Over a 6-Year Period. Hypertension, 2011, 58, 588-595.	2.7	127
23	Advanced glycation endproducts and its receptor for advanced glycation endproducts in obesity. Current Opinion in Lipidology, 2013, 24, 4-11.	2.7	124
24	Plasma Advanced Glycation End Products Are Associated With Incident Cardiovascular Events in Individuals With Type 2 Diabetes: A Case-Cohort Study With a Median Follow-up of 10 Years (EPIC-NL). Diabetes, 2015, 64, 257-265.	0.6	123
25	Quantification of glyoxal, methylglyoxal and 3-deoxyglucosone in blood and plasma by ultra performance liquid chromatography tandem mass spectrometry: evaluation of blood specimen. Clinical Chemistry and Laboratory Medicine, 2014, 52, 85-91.	2.3	120
26	Age-related accrual of methylomic variability is linked to fundamental ageing mechanisms. Genome Biology, 2016, 17, 191.	8.8	120
27	Glyoxalase-1 overexpression reduces endothelial dysfunction and attenuates early renal impairment in a rat model of diabetes. Diabetologia, 2014, 57, 224-235.	6.3	118
28	Measurement of NÎµ-(Carboxymethyl)lysine and NÎµ-(Carboxyethyl)lysine in Human Plasma Protein by Stable-Isotope-Dilution Tandem Mass Spectrometry. Clinical Chemistry, 2004, 50, 1222-1228.	3.2	116
29	Dietary intake of advanced glycation endproducts is associated with higher levels of advanced glycation endproducts in plasma and urine: The CODAM study. Clinical Nutrition, 2018, 37, 919-925.	5.0	114
30	Higher Plasma Soluble Receptor for Advanced Glycation End Products (sRAGE) Levels Are Associated With Incident Cardiovascular Disease and All-Cause Mortality in Type 1 Diabetes. Diabetes, 2010, 59, 2027-2032.	0.6	109
31	Adipose tissue macrophages induce hepatic neutrophil recruitment and macrophage accumulation in mice. Gut, 2018, 67, 1317-1327.	12.1	108
32	Markers of Endothelial Dysfunction and Inflammation in Type 1 Diabetic Patients With or Without Diabetic Nephropathy Followed for 10 Years. Diabetes Care, 2008, 31, 1170-1176.	8.6	106
33	Early- and advanced non-enzymatic glycation in diabetic vascular complications: the search for therapeutics. Amino Acids, 2012, 42, 1193-1204.	2.7	106
34	Associations of low grade inflammation and endothelial dysfunction with depression â€“ The Maastricht Study. Brain, Behavior, and Immunity, 2016, 56, 390-396.	4.1	103
35	Current therapeutic interventions in the glycation pathway: evidence from clinical studies. Diabetes, Obesity and Metabolism, 2013, 15, 677-689.	4.4	101
36	Plasma Levels of Advanced Glycation Endproducts N^{Ïµ}-(carboxymethyl)lysine, N^{Ïµ}-(carboxyethyl)lysine, and Pentosidine Are not Independently Associated With Cardiovascular Disease in Individuals With or Without Type 2 Diabetes: The Hoorn and CODAM Studies. Journal of Clinical Endocrinology and Metabolism, 2013, 98, E1369-E1373.	3.6	101

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37	Diet low in advanced glycation end products increases insulin sensitivity in healthy overweight individuals: a double-blind, randomized, crossover trial. American Journal of Clinical Nutrition, 2016, 103, 1426-1433.	4.7	101
38	Methylglyoxal, a glycolysis side-product, induces Hsp90 glycation and YAP-mediated tumor growth and metastasis. ELife, 2016, 5, .	6.0	100
39	Lowâ€grade inflammation can partly explain the association between the metabolic syndrome and either coronary artery disease or severity of peripheral arterial disease: the CODAM study. European Journal of Clinical Investigation, 2009, 39, 437-444.	3.4	92
40	Endogenous formation of NÎµ-(carboxymethyl)lysine is increased in fatty livers and induces inflammatory markers in an in vitro model of hepatic steatosis. Journal of Hepatology, 2012, 56, 647-655.	3.7	90
41	Increased accumulation of the glycoxidation product NÎµ-(carboxymethyl)lysine in hearts of diabetic patients: generation and characterisation of a monoclonal anti-CML antibody. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2004, 1636, 82-89.	2.4	89
42	Adiponectin Is Inversely Associated with Renal Function in Type 1 Diabetic Patients. Journal of Clinical Endocrinology and Metabolism, 2006, 91, 129-135.	3.6	89
43	Advanced glycation end products and their receptor in age-related, non-communicable chronic inflammatory diseases; Overview of clinical evidence and potential contributions to disease. International Journal of Biochemistry and Cell Biology, 2016, 81, 403-418.	2.8	86
44	Impact of metformin versus repaglinide on non-glycaemic cardiovascular risk markers related to inflammation and endothelial dysfunction in non-obese patients with type 2 diabetes. European Journal of Endocrinology, 2008, 158, 631-641.	3.7	84
45	Markers of low-grade inflammation and endothelial dysfunction are related to reduced information processing speed and executive functioning in an older population â€“ the Hoorn Study. Psychoneuroendocrinology, 2014, 40, 108-118.	2.7	82
46	High-Density Lipoproteins Exert Pro-inflammatory Effects on Macrophages via Passive Cholesterol Depletion and PKC-NF-ÎºB/STAT1-IRF1 Signaling. Cell Metabolism, 2017, 25, 197-207.	16.2	80
47	Transient Intermittent Hyperglycemia Accelerates Atherosclerosis by Promoting Myelopoiesis. Circulation Research, 2020, 127, 877-892.	4.5	77
48	Heat-shock protein 27 is a major methylglyoxal-modified protein in endothelial cells. FEBS Letters, 2006, 580, 1565-1570.	2.8	72
49	Quantification of dicarbonyl compounds in commonly consumed foods and drinks; presentation of a food composition database for dicarbonyls. Food Chemistry, 2021, 339, 128063.	8.2	70
50	Soluble vascular cell adhesion molecule-1 and soluble E-selectin are associated with micro- and macrovascular complications in Type 1 diabetic patients. Journal of Diabetes and Its Complications, 2006, 20, 188-195.	2.3	69
51	Complement Factor 3 Is Associated With Insulin Resistance and With Incident Type 2 Diabetes Over a 7-Year Follow-up Period: The CODAM Study. Diabetes Care, 2014, 37, 1900-1909.	8.6	68
52	The cross-sectional association between insulin resistance and circulating complement C3 is partly explained by plasma alanine aminotransferase, independent of central obesity and general inflammation (the CODAM study). European Journal of Clinical Investigation, 2011, 41, 372-379.	3.4	67
53	Vascular AGE-ing by methylglyoxal: the past, the present and the future. Diabetologia, 2015, 58, 1715-1719.	6.3	66
54	Type 2 Diabetes as Measured by a Simultaneous Quantification of L(+) and D(<mml:math) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 62 Td (<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mo) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 82 Td (m L(+) and D(<mml:math) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 62 Td (<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mo) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 82 Td (m Tandem Mass Spectrometry. Experimental Diabetes Research, 2012, 2012, 1-10.	3.8	64

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55	Induction of 1,2-dicarbonyl compounds, intermediates in the formation of advanced glycation end-products, during heat-sterilization of glucose-based peritoneal dialysis fluids. Peritoneal Dialysis International, 1999, 19, 325-33.	2.3	64
56	Higher Plasma Methylglyoxal Levels Are Associated With Incident Cardiovascular Disease in Individuals With Type 1 Diabetes: A 12-Year Follow-up Study. Diabetes, 2017, 66, 2278-2283.	0.6	63
57	Higher Plasma Methylglyoxal Levels Are Associated With Incident Cardiovascular Disease and Mortality in Individuals With Type 2 Diabetes. Diabetes Care, 2018, 41, 1689-1695.	8.6	63
58	Levels of soluble receptor for AGE are cross-sectionally associated with cardiovascular disease in type 1 diabetes, and this association is partially mediated by endothelial and renal dysfunction and by low-grade inflammation: the EURODIAB Prospective Complications Study. Diabetologia, 2009, 52, 705-714.	6.3	62
59	Obesity-induced chronic inflammation in high fat diet challenged C57BL/6J mice is associated with acceleration of age-dependent renal amyloidosis. Scientific Reports, 2015, 5, 16474.	3.3	62
60	Postâ€“Glucose Load Plasma Î±-Dicarbonyl Concentrations Are Increased in Individuals With Impaired Glucose Metabolism and Type 2 Diabetes: The CODAM Study. Diabetes Care, 2015, 38, 913-920.	8.6	61
61	Associations of Advanced Glycation End-Products With Cognitive Functions in Individuals With and Without Type 2 Diabetes: The Maastricht Study. Journal of Clinical Endocrinology and Metabolism, 2015, 100, 951-960.	3.6	60
62	Endothelial dysfunction is associated with a greater depressive symptom score in a general elderly population: the Hoorn Study. Psychological Medicine, 2014, 44, 1403-1416.	4.5	59
63	Methylglyoxal-Derived Advanced Glycation Endproducts in Multiple Sclerosis. International Journal of Molecular Sciences, 2017, 18, 421.	4.1	57
64	Novel Biomarkers to Improve the Prediction of Cardiovascular Event Risk in Type 2 Diabetes Mellitus. Journal of the American Heart Association, 2016, 5, .	3.7	56
65	Diet-induced weight loss improves not only cardiometabolic risk markers but also markers of vascular function: a randomized controlled trial in abdominally obese men. American Journal of Clinical Nutrition, 2017, 105, 23-31.	4.7	55
66	The Role of Hyperglycemia, Insulin Resistance, and Blood Pressure in Diabetes-Associated Differences in Cognitive Performanceâ€”The Maastricht Study. Diabetes Care, 2017, 40, 1537-1547.	8.6	53
67	A Healthy Diet Is Associated with Less Endothelial Dysfunction and Less Low-Grade Inflammation over a 7-Year Period in Adults at Risk of Cardiovascular Disease1â€“3. Journal of Nutrition, 2015, 145, 532-540.	2.9	52
68	Protein-bound uraemic toxins, dicarbonyl stress and advanced glycation end products in conventional and extended haemodialysis and haemodiafiltration. Nephrology Dialysis Transplantation, 2015, 30, 1395-1402.	0.7	52
69	Capillary Rarefaction Associates with Albuminuria: The Maastricht Study. Journal of the American Society of Nephrology: JASN, 2016, 27, 3748-3757.	6.1	51
70	Delayed Intervention With Pyridoxamine Improves Metabolic Function and Prevents Adipose Tissue Inflammation and Insulin Resistance in High-Fat Dietâ€Induced Obese Mice. Diabetes, 2016, 65, 956-966.	0.6	51
71	Measurement of pentosidine in human plasma protein by a single-column high-performance liquid chromatography method with fluorescence detection. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2009, 877, 610-614.	2.3	49
72	Unhealthy dietary patterns associated with inflammation and endothelial dysfunction in type 1 diabetes: The EURODIAB study. Nutrition, Metabolism and Cardiovascular Diseases, 2013, 23, 758-764.	2.6	49

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73	Markers of inflammation and endothelial dysfunction are associated with incident cardiovascular disease, all-cause mortality, and progression of coronary calcification in type 2 diabetic patients with microalbuminuria. Journal of Diabetes and Its Complications, 2016, 30, 248-255.	2.3	49
74	Association of Type D personality with increased vulnerability to depression: Is there a role for inflammation or endothelial dysfunction? â€“ The Maastricht Study. Journal of Affective Disorders, 2016, 189, 118-125.	4.1	49
75	Extracellular overhydration linked with endothelial dysfunction in the context of inflammation in haemodialysis dependent chronic kidney disease. PLoS ONE, 2017, 12, e0183281.	2.5	49
76	Skin autofluorescence is increased in systemic lupus erythematosus but is not reflected by elevated plasma levels of advanced glycation endproducts. Rheumatology, 2008, 47, 1554-1558.	1.9	48
77	Fish Consumption in Healthy Adults Is Associated with Decreased Circulating Biomarkers of Endothelial Dysfunction and Inflammation during a 6-Year Follow-Up. Journal of Nutrition, 2011, 141, 1719-1725.	2.9	48
78	Plasma matrix metalloproteinases are associated with incident cardiovascular disease and all-cause mortality in patients with type 1 diabetes: a 12-year follow-up study. Cardiovascular Diabetology, 2017, 16, 55.	6.8	47
79	Microvascular Dysfunction Is Associated With Worse Cognitive Performance. Hypertension, 2020, 75, 237-245.	2.7	47
80	Renal inflammatory markers during the onset of hypertension in spontaneously hypertensive rats. Hypertension Research, 2014, 37, 100-109.	2.7	46
81	Plasma advanced glycation end-products and skin autofluorescence are increased in COPD. European Respiratory Journal, 2014, 43, 430-438.	6.7	46
82	Skin Autofluorescence and Pentosidine Are Associated With Aortic Stiffening. Hypertension, 2016, 68, 956-963.	2.7	46
83	Association of dietary folate and vitamin B-12 intake with genome-wide DNA methylation in blood: a large-scale epigenome-wide association analysis in 5841 individuals. American Journal of Clinical Nutrition, 2019, 110, 437-450.	4.7	46
84	Plasma levels of advanced glycation endproducts are associated with type 1 diabetes and coronary artery calcification. Cardiovascular Diabetology, 2013, 12, 149.	6.8	45
85	Distinct associations of complement C3a and its precursor C3 with atherosclerosis and cardiovascular disease. Thrombosis and Haemostasis, 2014, 111, 1102-1111.	3.4	45
86	Quercetin, but Not Epicatechin, Decreases Plasma Concentrations of Methylglyoxal in Adults in a Randomized, Double-Blind, Placebo-Controlled, Crossover Trial with Pure Flavonoids. Journal of Nutrition, 2018, 148, 1911-1916.	2.9	45
87	Circulating and Urinary Transforming Growth Factor Î²1, Amadori Albumin, and Complications of Type 1 Diabetes. Diabetes Care, 2002, 25, 2320-2327.	8.6	44
88	The association between the metabolic syndrome and alanine amino transferase is mediated by insulin resistance via related metabolic intermediates (the Cohort on Diabetes and Atherosclerosis) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 450 137 T	3.4	44
89	The methylglyoxal-derived AGE tetrahydropyrimidine is increased in plasma of individuals with type 1 diabetes mellitus and in atherosclerotic lesions and is associated with sVCAM-1. Diabetologia, 2013, 56, 1845-1855.	6.3	44
90	Methylglyoxal and glyoxalase I in atherosclerosis. Biochemical Society Transactions, 2014, 42, 443-449.	3.4	44

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91	N Â-(carboxymethyl)lysine, N Â-(carboxyethyl)lysine and vascular cell adhesion molecule-1 (VCAM-1) in relation to peritoneal glucose prescription and residual renal function; a study in peritoneal dialysis patients. Nephrology Dialysis Transplantation, 2004, 19, 910-916.	0.7	43
92	Skin-Autofluorescence, a Measure of Tissue Advanced Glycation End-Products (AGEs), is Related to Diastolic Function in Dialysis Patients. Journal of Cardiac Failure, 2008, 14, 596-602.	1.7	43
93	Low 25-hydroxyvitamin D2 and 25-hydroxyvitamin D3 levels are independently associated with macroalbuminuria, but not with retinopathy and macrovascular disease in type 1 diabetes: the EURODIAB prospective complications study. Cardiovascular Diabetology, 2015, 14, 67.	6.8	43
94	Dietary advanced glycation endproducts (AGEs) increase their concentration in plasma and tissues, result in inflammation and modulate gut microbial composition in mice; evidence for reversibility. Food Research International, 2021, 147, 110547.	6.2	41
95	Hypertension Is a Conditional Factor for the Development of Cardiac Hypertrophy in Type 2 Diabetic Mice. PLoS ONE, 2014, 9, e85078.	2.5	40
96	Iron metabolism is prospectively associated with insulin resistance and glucose intolerance over a 7-year follow-up period: the CODAM study. Acta Diabetologica, 2015, 52, 337-348.	2.5	40
97	Modulation of Insulin Action by Advanced Glycation Endproducts: A New Player in the Field. Hormone and Metabolic Research, 2008, 40, 614-619.	1.5	38
98	Activated complement factor 3 is associated with liver fat and liver enzymes: the CODAM study. European Journal of Clinical Investigation, 2013, 43, 679-688.	3.4	38
99	Reducing sitting time versus adding exercise: differential effects on biomarkers of endothelial dysfunction and metabolic risk. Scientific Reports, 2018, 8, 8657.	3.3	38
100	Effect of Benfotiamine on Advanced Glycation Endproducts and Markers of Endothelial Dysfunction and Inflammation in Diabetic Nephropathy. PLoS ONE, 2012, 7, e40427.	2.5	37
101	Effects of fructose restriction on liver steatosis (FRUITLESS); a double-blind randomized controlled trial. American Journal of Clinical Nutrition, 2021, 113, 391-400.	4.7	37
102	Protein-Bound Plasma N ^{Îµ} -(Carboxymethyl)lysine Is Inversely Associated With Central Obesity and Inflammation and Significantly Explain a Part of the Central Obesityâ€“Related Increase in Inflammation. Arteriosclerosis, Thrombosis, and Vascular Biology, 2015, 35, 2707-2713.	2.4	36
103	Subcutaneous Adipose Tissue and Systemic Inflammation Are Associated With Peripheral but Not Hepatic Insulin Resistance in Humans. Diabetes, 2019, 68, 2247-2258.	0.6	35
104	ACEâ€inhibition modulates some endothelial functions in healthy subjects and in normotensive type 1 diabetic patients. European Journal of Clinical Investigation, 2000, 30, 853-860.	3.4	33
105	Dietary intake of advanced glycation end products (AGEs) and changes in body weight in European adults. European Journal of Nutrition, 2020, 59, 2893-2904.	3.9	33
106	Recent advances in the pathogenesis of hereditary fructose intolerance: implications for its treatment and the understanding of fructose-induced non-alcoholic fatty liver disease. Cellular and Molecular Life Sciences, 2020, 77, 1709-1719.	5.4	33
107	The alternative complement pathway is longitudinally associated with adverse cardiovascular outcomes. Thrombosis and Haemostasis, 2016, 115, 446-457.	3.4	32
108	Advanced Glycation End Product (AGE) Accumulation in the Skin is Associated with Depression: The Maastricht Study. Depression and Anxiety, 2017, 34, 59-67.	4.1	32

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109	Sedentary behaviour and physical activity are associated with biomarkers of endothelial dysfunction and low-grade inflammationâ€"relevance for (pre)diabetes: The Maastricht Study. Diabetologia, 2022, 65, 777-789.	6.3	32
110	NÎµ-(Carboxymethyl)lysine depositions in human aortic heart valves: similarities with atherosclerotic blood vessels. Atherosclerosis, 2004, 174, 287-292.	0.8	31
111	Low-grade inflammation, but not endothelial dysfunction, is associated with greater carotid stiffness in the elderly. Journal of Hypertension, 2012, 30, 744-752.	0.5	31
112	BclI Glucocorticoid Receptor Polymorphism Is Associated With Greater Body Fatness: The Hoorn and CODAM Studies. Journal of Clinical Endocrinology and Metabolism, 2013, 98, E595-E599.	3.6	31
113	Methylglyoxal stress, the glyoxalase system, and diabetic chronic kidney disease. Current Opinion in Nephrology and Hypertension, 2019, 28, 26-33.	2.0	31
114	Interaction of NÎµ(carboxymethyl)lysine- and methylglyoxalmodified albumin with endothelial cells and macrophages. Thrombosis and Haemostasis, 2006, 95, 320-328.	3.4	30
115	Patients With Aldolase B Deficiency Are Characterized by Increased Intrahepatic Triglyceride Content. Journal of Clinical Endocrinology and Metabolism, 2019, 104, 5056-5064.	3.6	30
116	Methylglyoxal-Derived Advanced Glycation Endproducts Accumulate in Multiple Sclerosis Lesions. Frontiers in Immunology, 2019, 10, 855.	4.8	30
117	Abdominal Fat Mass Is Associated With Adaptive Immune Activation: The CODAM Study. Obesity, 2011, 19, 1690-1698.	3.0	29
118	Energy restriction and Roux-en-Y gastric bypass reduce postprandial Î±-dicarbonyl stress in obese women with type 2 diabetes. Diabetologia, 2016, 59, 2013-2017.	6.3	29
119	Impaired microcirculatory perfusion in a rat model of cardiopulmonary bypass: the role of hemodilution. American Journal of Physiology - Heart and Circulatory Physiology, 2016, 310, H550-H558.	3.2	29
120	Postprandial Glucose Spikes, an Important Contributor to Cardiovascular Disease in Diabetes?. Frontiers in Cardiovascular Medicine, 2020, 7, 570553.	2.4	29
121	Biomarkers for post thrombotic syndrome: A case-control study. Thrombosis Research, 2014, 134, 369-375.	1.7	28
122	Atrial Fibrillation Coincides with the Advanced Glycation End Product NÎµ-(Carboxymethyl)Lysine in the Atrium. American Journal of Pathology, 2015, 185, 2096-2104.	3.8	28
123	Mild Oxidative Damage in the Diabetic Rat Heart Is Attenuated by Glyoxalase-1 Overexpression. International Journal of Molecular Sciences, 2013, 14, 15724-15739.	4.1	27
124	A potential role for glycated cross-links in abdominal aortic aneurysm disease. Journal of Vascular Surgery, 2017, 65, 1493-1503.e3.	1.1	27
125	Circulating matrix metalloproteinases are associated with arterial stiffness in patients with type 1 diabetes: pooled analysis of three cohort studies. Cardiovascular Diabetology, 2017, 16, 139.	6.8	27
126	Association of tear fluid amyloid and tau levels with disease severity and neurodegeneration. Scientific Reports, 2021, 11, 22675.	3.3	27

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127	Human plasma complement C3 is independently associated with coronary heart disease, but only in heavy smokers (the CODAM study). International Journal of Cardiology, 2012, 154, 158-162.	1.7	26
128	Methylglyoxal Scavengers Resensitize KRAS-Mutated Colorectal Tumors to Cetuximab. Cell Reports, 2020, 30, 1400-1416.e6.	6.4	26
129	Multiple Inflammatory Biomarker Detection in a Prospective Cohort Study: A Cross-Validation between Well-Established Single-Biomarker Techniques and an Electrochemiluminescense-Based Multi-Array Platform. PLoS ONE, 2013, 8, e58576.	2.5	26
130	Up-Regulation of the Complement System in Subcutaneous Adipocytes from Nonobese, Hypertriglyceridemic Subjects Is Associated with Adipocyte Insulin Resistance. Journal of Clinical Endocrinology and Metabolism, 2012, 97, 4742-4752.	3.6	25
131	Dysfunctional adipose tissue and low-grade inflammation in the management of the metabolic syndrome: current practices and future advances. F1000Research, 2016, 5, 2515.	1.6	25
132	Independent tissue contributors to obesity-associated insulin resistance. JCI Insight, 2017, 2, .	5.0	25
133	The cross-sectional association between uric acid and atherosclerosis and the role of low-grade inflammation: the CODAM study. Rheumatology, 2014, 53, 2053-2062.	1.9	24
134	Early Glycated Albumin, but Not Advanced Glycated Albumin, Methylglyoxal, or 3-Deoxyglucosone Increases the Expression of Pai-1 in Human Peritoneal Mesothelial Cells. Peritoneal Dialysis International, 2001, 21, 487-494.	2.3	23
135	Nitric Oxide Dysregulation in Patients With Heart Failure. Psychosomatic Medicine, 2015, 77, 292-302.	2.0	23
136	Microvascular Phenotyping in the Maastricht Study: Design and Main Findings, 2010â€“2018. American Journal of Epidemiology, 2020, 189, 873-884.	3.4	23
137	The association between the metabolic syndrome and peripheral, but not coronary, artery disease is partly mediated by endothelial dysfunction: the CODAM study. European Journal of Clinical Investigation, 2011, 41, 167-175.	3.4	22
138	Analysis of inflammatory cells and mediators in skin wound biopsies to determine wound age in living subjects in forensic medicine. Forensic Science International, 2015, 247, 7-13.	2.2	22
139	Complement C3 and C4, but not their regulators or activated products, are associated with incident metabolic syndrome: the CODAM study. Endocrine, 2018, 62, 617-627.	2.3	22
140	High dietary glycemic load is associated with higher concentrations of urinary advanced glycation endproducts: the Cohort on Diabetes and Atherosclerosis Maastricht (CODAM) Study. American Journal of Clinical Nutrition, 2019, 110, 358-366.	4.7	22
141	Complement activation products C5a and sC5b-9 are associated with low-grade inflammation and endothelial dysfunction, but not with atherosclerosis in a cross-sectional analysis: The CODAM study. International Journal of Cardiology, 2014, 174, 400-403.	1.7	21
142	A Common Gene Variant in Glucokinase Regulatory Protein Interacts With Glucose Metabolism on Diabetic Dyslipidemia: the Combined CODAM and Hoorn Studies. Diabetes Care, 2016, 39, 1811-1817.	8.6	21
143	Depression and markers of inflammation as predictors of all-cause mortality in heart failure. Brain, Behavior, and Immunity, 2016, 57, 144-150.	4.1	21
144	Association of common gene variants in glucokinase regulatory protein with cardiorenal disease: A systematic review and meta-analysis. PLoS ONE, 2018, 13, e0206174.	2.5	21

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145	RAGE deficiency does not affect non-alcoholic steatohepatitis and atherosclerosis in Western type diet-fed Ldlrâˆ’/âˆ’ mice. Scientific Reports, 2018, 8, 15256.	3.3	20
146	Bone markers and cardiovascular risk in type 2 diabetes patients. Cardiovascular Diabetology, 2018, 17, 45.	6.8	20
147	Relations of advanced glycation endproducts and dicarbonyls with endothelial dysfunction and low-grade inflammation in individuals with end-stage renal disease in the transition to renal replacement therapy: A cross-sectional observational study. PLoS ONE, 2019, 14, e0221058.	2.5	20
148	Glyoxalase 1 overexpression does not affect atherosclerotic lesion size and severity in ApoEâˆ’/âˆ’ mice with or without diabetes. Cardiovascular Research, 2014, 104, 160-170.	3.8	19
149	Type 2 diabetes is not associated with an altered plaque phenotype among patients undergoing carotid revascularization. A histological analysis of 1455 carotid plaques. Atherosclerosis, 2014, 235, 418-423.	0.8	19
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