

# Casper G Schalkwijk

## List of Publications by Year in descending order

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253  
papers

12,738  
citations

22099

59  
h-index

32761

100  
g-index

255  
all docs

255  
docs citations

255  
times ranked

18876  
citing authors

#	ARTICLE	IF	CITATIONS
1	Vascular complications in diabetes mellitus: the role of endothelial dysfunction. <i>Clinical Science</i> , 2005, 109, 143-159.	1.8	537
2	Associations of C-Reactive Protein With Measures of Obesity, Insulin Resistance, and Subclinical Atherosclerosis in Healthy, Middle-Aged Women. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 1999, 19, 1986-1991.	1.1	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. <i>Arthritis and Rheumatism</i> , 2002, 46, 114-123.	6.7	398
4	Disease variants alter transcription factor levels and methylation of their binding sites. <i>Nature Genetics</i> , 2017, 49, 131-138.	9.4	390
5	Identification of context-dependent expression quantitative trait loci in whole blood. <i>Nature Genetics</i> , 2017, 49, 139-145.	9.4	363
6	Methylglyoxal, a Highly Reactive Dicarbonyl Compound, in Diabetes, Its Vascular Complications, and Other Age-Related Diseases. <i>Physiological Reviews</i> , 2020, 100, 407-461.	13.1	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. <i>Diabetologia</i> , 1999, 42, 351-357.	2.9	272
8	The role of methylglyoxal and the glyoxalase system in diabetes and other age-related diseases. <i>Clinical Science</i> , 2015, 128, 839-861.	1.8	241
9	Markers of inflammation are cross-sectionally associated with microvascular complications and cardiovascular disease in type 1 diabetes?the EURODIAB Prospective Complications Study. <i>Diabetologia</i> , 2005, 48, 370-378.	2.9	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. <i>Food Chemistry</i> , 2016, 190, 1145-1150.	4.2	222
11	Higher Plasma Levels of Advanced Glycation End Products Are Associated With Incident Cardiovascular Disease and All-Cause Mortality in Type 1 Diabetes. <i>Diabetes Care</i> , 2011, 34, 442-447.	4.3	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. <i>Journal of Internal Medicine</i> , 2005, 257, 100-109.	2.7	194
13	Overexpression of Glyoxalase-I Reduces Hyperglycemia-induced Levels of Advanced Glycation End Products and Oxidative Stress in Diabetic Rats. <i>Journal of Biological Chemistry</i> , 2011, 286, 1374-1380.	1.6	189
14	Inflammation and premature aging in advanced chronic kidney disease. <i>American Journal of Physiology - Renal Physiology</i> , 2017, 313, F938-F950.	1.3	176
15	N <sup>ε</sup> -(Carboxymethyl)lysine-Receptor for Advanced Glycation End Product Axis Is a Key Modulator of Obesity-Induced Dysregulation of Adipokine Expression and Insulin Resistance. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2014, 34, 1199-1208.	1.1	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. <i>Diabetologia</i> , 2010, 53, 989-1000.	2.9	154
17	Blood lipids influence DNA methylation in circulating cells. <i>Genome Biology</i> , 2016, 17, 138.	3.8	154
18	Amadori albumin in type 1 diabetic patients: correlation with markers of endothelial function, association with diabetic nephropathy, and localization in retinal capillaries. <i>Diabetes</i> , 1999, 48, 2446-2453.	0.3	143

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19	Higher levels of advanced glycation endproducts in human carotid atherosclerotic plaques are associated with a rupture-prone phenotype. <i>European Heart Journal</i> , 2014, 35, 1137-1146.	1.0	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. <i>Peritoneal Dialysis International</i> , 1999, 19, 325-333.	1.1	137
21	Advanced glycation end products and diabetic foot disease. <i>Diabetes/Metabolism Research and Reviews</i> , 2008, 24, S19-S24.	1.7	135
22	Endothelial Dysfunction and Low-Grade Inflammation Are Associated With Greater Arterial Stiffness Over a 6-Year Period. <i>Hypertension</i> , 2011, 58, 588-595.	1.3	127
23	Advanced glycation endproducts and its receptor for advanced glycation endproducts in obesity. <i>Current Opinion in Lipidology</i> , 2013, 24, 4-11.	1.2	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). <i>Diabetes</i> , 2015, 64, 257-265.	0.3	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. <i>Clinical Chemistry and Laboratory Medicine</i> , 2014, 52, 85-91.	1.4	120
26	Age-related accrual of methylomic variability is linked to fundamental ageing mechanisms. <i>Genome Biology</i> , 2016, 17, 191.	3.8	120
27	Glyoxalase-1 overexpression reduces endothelial dysfunction and attenuates early renal impairment in a rat model of diabetes. <i>Diabetologia</i> , 2014, 57, 224-235.	2.9	118
28	Measurement of N <sup>1</sup> μ-(Carboxymethyl)lysine and N <sup>1</sup> μ-(Carboxyethyl)lysine in Human Plasma Protein by Stable-Isotope-Dilution Tandem Mass Spectrometry. <i>Clinical Chemistry</i> , 2004, 50, 1222-1228.	1.5	116
29	Dietary intake of advanced glycation endproducts is associated with higher levels of advanced glycation endproducts in plasma and urine: The CODAM study. <i>Clinical Nutrition</i> , 2018, 37, 919-925.	2.3	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. <i>Diabetes</i> , 2010, 59, 2027-2032.	0.3	109
31	Adipose tissue macrophages induce hepatic neutrophil recruitment and macrophage accumulation in mice. <i>Gut</i> , 2018, 67, 1317-1327.	6.1	108
32	Markers of Endothelial Dysfunction and Inflammation in Type 1 Diabetic Patients With or Without Diabetic Nephropathy Followed for 10 Years. <i>Diabetes Care</i> , 2008, 31, 1170-1176.	4.3	106
33	Early- and advanced non-enzymatic glycation in diabetic vascular complications: the search for therapeutics. <i>Amino Acids</i> , 2012, 42, 1193-1204.	1.2	106
34	Associations of low grade inflammation and endothelial dysfunction with depression â€œ The Maastricht Study. <i>Brain, Behavior, and Immunity</i> , 2016, 56, 390-396.	2.0	103
35	Current therapeutic interventions in the glycation pathway: evidence from clinical studies. <i>Diabetes, Obesity and Metabolism</i> , 2013, 15, 677-689.	2.2	101
36	Plasma Levels of Advanced Glycation Endproducts N <sup>1</sup> μ-(carboxymethyl)lysine, N <sup>1</sup> μ-(carboxyethyl)lysine, and Pentosidine Are not Independently Associated With Cardiovascular Disease in Individuals With or Without Type 2 Diabetes: The Hoorn and CODAM Studies. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2013, 98, E1369-E1373.	1.8	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. <i>American Journal of Clinical Nutrition</i> , 2016, 103, 1426-1433.	2.2	101
38	Methylglyoxal, a glycolysis side-product, induces Hsp90 glycation and YAP-mediated tumor growth and metastasis. <i>ELife</i> , 2016, 5, .	2.8	100
39	Low-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. <i>European Journal of Clinical Investigation</i> , 2009, 39, 437-444.	1.7	92
40	Endogenous formation of N <sup>ε</sup> -(carboxymethyl)lysine is increased in fatty livers and induces inflammatory markers in an in vitro model of hepatic steatosis. <i>Journal of Hepatology</i> , 2012, 56, 647-655.	1.8	90
41	Increased accumulation of the glycoxidation product N <sup>ε</sup> -(carboxymethyl)lysine in hearts of diabetic patients: generation and characterisation of a monoclonal anti-CML antibody. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2004, 1636, 82-89.	1.2	89
42	Adiponectin Is Inversely Associated with Renal Function in Type 1 Diabetic Patients. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2006, 91, 129-135.	1.8	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. <i>International Journal of Biochemistry and Cell Biology</i> , 2016, 81, 403-418.	1.2	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. <i>European Journal of Endocrinology</i> , 2008, 158, 631-641.	1.9	84
45	Markers of low-grade inflammation and endothelial dysfunction are related to reduced information processing speed and executive functioning in an older population – the Hoorn Study. <i>Psychoneuroendocrinology</i> , 2014, 40, 108-118.	1.3	82
46	High-Density Lipoproteins Exert Pro-inflammatory Effects on Macrophages via Passive Cholesterol Depletion and PKC-NF- $\kappa$ B/STAT1-IRF1 Signaling. <i>Cell Metabolism</i> , 2017, 25, 197-207.	7.2	80
47	Transient Intermittent Hyperglycemia Accelerates Atherosclerosis by Promoting Myelopoiesis. <i>Circulation Research</i> , 2020, 127, 877-892.	2.0	77
48	Heat-shock protein 27 is a major methylglyoxal-modified protein in endothelial cells. <i>FEBS Letters</i> , 2006, 580, 1565-1570.	1.3	72
49	Quantification of dicarbonyl compounds in commonly consumed foods and drinks; presentation of a food composition database for dicarbonyls. <i>Food Chemistry</i> , 2021, 339, 128063.	4.2	70
50	Soluble vascular cell adhesion molecule-1 and soluble E-selectin are associated with micro- and macrovascular complications in Type 1 diabetic patients. <i>Journal of Diabetes and Its Complications</i> , 2006, 20, 188-195.	1.2	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. <i>Diabetes Care</i> , 2014, 37, 1900-1909.	4.3	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). <i>European Journal of Clinical Investigation</i> , 2011, 41, 372-379.	1.7	67
53	Vascular AGE-ing by methylglyoxal: the past, the present and the future. <i>Diabetologia</i> , 2015, 58, 1715-1719.	2.9	66
54	Type 2 Diabetes as Measured by a Simultaneous Quantification of L(+) and D(-)-Tandem Mass Spectrometry. <i>Experimental Diabetes Research</i> , 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. <i>Peritoneal Dialysis International</i> , 1999, 19, 325-33.	1.1	64
56	Higher Plasma Methylglyoxal Levels Are Associated With Incident Cardiovascular Disease in Individuals With Type 1 Diabetes: A 12-Year Follow-up Study. <i>Diabetes</i> , 2017, 66, 2278-2283.	0.3	63
57	Higher Plasma Methylglyoxal Levels Are Associated With Incident Cardiovascular Disease and Mortality in Individuals With Type 2 Diabetes. <i>Diabetes Care</i> , 2018, 41, 1689-1695.	4.3	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. <i>Diabetologia</i> , 2009, 52, 705-714.	2.9	62
59	Obesity-induced chronic inflammation in high fat diet challenged C57BL/6J mice is associated with acceleration of age-dependent renal amyloidosis. <i>Scientific Reports</i> , 2015, 5, 16474.	1.6	62
60	Post-“Glucose Load Plasma 1,2-Dicarbonyl Concentrations Are Increased in Individuals With Impaired Glucose Metabolism and Type 2 Diabetes: The CODAM Study. <i>Diabetes Care</i> , 2015, 38, 913-920.	4.3	61
61	Associations of Advanced Glycation End-Products With Cognitive Functions in Individuals With and Without Type 2 Diabetes: The Maastricht Study. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2015, 100, 951-960.	1.8	60
62	Endothelial dysfunction is associated with a greater depressive symptom score in a general elderly population: the Hoorn Study. <i>Psychological Medicine</i> , 2014, 44, 1403-1416.	2.7	59
63	Methylglyoxal-Derived Advanced Glycation Endproducts in Multiple Sclerosis. <i>International Journal of Molecular Sciences</i> , 2017, 18, 421.	1.8	57
64	Novel Biomarkers to Improve the Prediction of Cardiovascular Event Risk in Type 2 Diabetes Mellitus. <i>Journal of the American Heart Association</i> , 2016, 5, .	1.6	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. <i>American Journal of Clinical Nutrition</i> , 2017, 105, 23-31.	2.2	55
66	The Role of Hyperglycemia, Insulin Resistance, and Blood Pressure in Diabetes-Associated Differences in Cognitive Performance—The Maastricht Study. <i>Diabetes Care</i> , 2017, 40, 1537-1547.	4.3	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 Disease—3. <i>Journal of Nutrition</i> , 2015, 145, 532-540.	1.3	52
68	Protein-bound uraemic toxins, dicarbonyl stress and advanced glycation end products in conventional and extended haemodialysis and haemodiafiltration. <i>Nephrology Dialysis Transplantation</i> , 2015, 30, 1395-1402.	0.4	52
69	Capillary Rarefaction Associates with Albuminuria: The Maastricht Study. <i>Journal of the American Society of Nephrology: JASN</i> , 2016, 27, 3748-3757.	3.0	51
70	Delayed Intervention With Pyridoxamine Improves Metabolic Function and Prevents Adipose Tissue Inflammation and Insulin Resistance in High-Fat Diet-Induced Obese Mice. <i>Diabetes</i> , 2016, 65, 956-966.	0.3	51
71	Measurement of pentosidine in human plasma protein by a single-column high-performance liquid chromatography method with fluorescence detection. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2009, 877, 610-614.	1.2	49
72	Unhealthy dietary patterns associated with inflammation and endothelial dysfunction in type 1 diabetes: The EURODIAB study. <i>Nutrition, Metabolism and Cardiovascular Diseases</i> , 2013, 23, 758-764.	1.1	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. <i>Journal of Diabetes and Its Complications</i> , 2016, 30, 248-255.	1.2	49
74	Association of Type D personality with increased vulnerability to depression: Is there a role for inflammation or endothelial dysfunction? " The Maastricht Study. <i>Journal of Affective Disorders</i> , 2016, 189, 118-125.	2.0	49
75	Extracellular overhydration linked with endothelial dysfunction in the context of inflammation in haemodialysis dependent chronic kidney disease. <i>PLoS ONE</i> , 2017, 12, e0183281.	1.1	49
76	Skin autofluorescence is increased in systemic lupus erythematosus but is not reflected by elevated plasma levels of advanced glycation endproducts. <i>Rheumatology</i> , 2008, 47, 1554-1558.	0.9	48
77	Fish Consumption in Healthy Adults Is Associated with Decreased Circulating Biomarkers of Endothelial Dysfunction and Inflammation during a 6-Year Follow-Up. <i>Journal of Nutrition</i> , 2011, 141, 1719-1725.	1.3	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. <i>Cardiovascular Diabetology</i> , 2017, 16, 55.	2.7	47
79	Microvascular Dysfunction Is Associated With Worse Cognitive Performance. <i>Hypertension</i> , 2020, 75, 237-245.	1.3	47
80	Renal inflammatory markers during the onset of hypertension in spontaneously hypertensive rats. <i>Hypertension Research</i> , 2014, 37, 100-109.	1.5	46
81	Plasma advanced glycation end-products and skin autofluorescence are increased in COPD. <i>European Respiratory Journal</i> , 2014, 43, 430-438.	3.1	46
82	Skin Autofluorescence and Pentosidine Are Associated With Aortic Stiffening. <i>Hypertension</i> , 2016, 68, 956-963.	1.3	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. <i>American Journal of Clinical Nutrition</i> , 2019, 110, 437-450.	2.2	46
84	Plasma levels of advanced glycation endproducts are associated with type 1 diabetes and coronary artery calcification. <i>Cardiovascular Diabetology</i> , 2013, 12, 149.	2.7	45
85	Distinct associations of complement C3a and its precursor C3 with atherosclerosis and cardiovascular disease. <i>Thrombosis and Haemostasis</i> , 2014, 111, 1102-1111.	1.8	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. <i>Journal of Nutrition</i> , 2018, 148, 1911-1916.	1.3	45
87	Circulating and Urinary Transforming Growth Factor $\hat{A}1$ , Amadori Albumin, and Complications of Type 1 Diabetes: The EURODIAB Prospective Complications Study. <i>Diabetes Care</i> , 2002, 25, 2320-2327.	4.3	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 /Overback 10 4450 137 T		
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. <i>Diabetologia</i> , 2013, 56, 1845-1855.	2.9	44
90	Methylglyoxal and glyoxalase I in atherosclerosis. <i>Biochemical Society Transactions</i> , 2014, 42, 443-449.	1.6	44

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91	N <sup>ε</sup> -(carboxymethyl)lysine, N <sup>ε</sup> -(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. <i>Nephrology Dialysis Transplantation</i> , 2004, 19, 910-916.	0.4	43
92	Skin-Autofluorescence, a Measure of Tissue Advanced Glycation End-Products (AGEs), is Related to Diastolic Function in Dialysis Patients. <i>Journal of Cardiac Failure</i> , 2008, 14, 596-602.	0.7	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. <i>Cardiovascular Diabetology</i> , 2015, 14, 67.	2.7	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. <i>Food Research International</i> , 2021, 147, 110547.	2.9	41
95	Hypertension Is a Conditional Factor for the Development of Cardiac Hypertrophy in Type 2 Diabetic Mice. <i>PLoS ONE</i> , 2014, 9, e85078.	1.1	40
96	Iron metabolism is prospectively associated with insulin resistance and glucose intolerance over a 7-year follow-up period: the CODAM study. <i>Acta Diabetologica</i> , 2015, 52, 337-348.	1.2	40
97	Modulation of Insulin Action by Advanced Glycation Endproducts: A New Player in the Field. <i>Hormone and Metabolic Research</i> , 2008, 40, 614-619.	0.7	38
98	Activated complement factor 3 is associated with liver fat and liver enzymes: the CODAM study. <i>European Journal of Clinical Investigation</i> , 2013, 43, 679-688.	1.7	38
99	Reducing sitting time versus adding exercise: differential effects on biomarkers of endothelial dysfunction and metabolic risk. <i>Scientific Reports</i> , 2018, 8, 8657.	1.6	38
100	Effect of Benfotiamine on Advanced Glycation Endproducts and Markers of Endothelial Dysfunction and Inflammation in Diabetic Nephropathy. <i>PLoS ONE</i> , 2012, 7, e40427.	1.1	37
101	Effects of fructose restriction on liver steatosis (FRUITLESS); a double-blind randomized controlled trial. <i>American Journal of Clinical Nutrition</i> , 2021, 113, 391-400.	2.2	37
102	Protein-Bound Plasma N <sup>ε</sup> -(Carboxymethyl)lysine Is Inversely Associated With Central Obesity and Inflammation and Significantly Explain a Part of the Central Obesity-Related Increase in Inflammation. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2015, 35, 2707-2713.	1.1	36
103	Subcutaneous Adipose Tissue and Systemic Inflammation Are Associated With Peripheral but Not Hepatic Insulin Resistance in Humans. <i>Diabetes</i> , 2019, 68, 2247-2258.	0.3	35
104	ACE-inhibition modulates some endothelial functions in healthy subjects and in normotensive type 1 diabetic patients. <i>European Journal of Clinical Investigation</i> , 2000, 30, 853-860.	1.7	33
105	Dietary intake of advanced glycation end products (AGEs) and changes in body weight in European adults. <i>European Journal of Nutrition</i> , 2020, 59, 2893-2904.	1.8	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. <i>Cellular and Molecular Life Sciences</i> , 2020, 77, 1709-1719.	2.4	33
107	The alternative complement pathway is longitudinally associated with adverse cardiovascular outcomes. <i>Thrombosis and Haemostasis</i> , 2016, 115, 446-457.	1.8	32
108	Advanced Glycation End Product (AGE) Accumulation in the Skin is Associated with Depression: The Maastricht Study. <i>Depression and Anxiety</i> , 2017, 34, 59-67.	2.0	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. <i>Diabetologia</i> , 2022, 65, 777-789.	2.9	32
110	NÎµ-(Carboxymethyl)lysine depositions in human aortic heart valves: similarities with atherosclerotic blood vessels. <i>Atherosclerosis</i> , 2004, 174, 287-292.	0.4	31
111	Low-grade inflammation, but not endothelial dysfunction, is associated with greater carotid stiffness in the elderly. <i>Journal of Hypertension</i> , 2012, 30, 744-752.	0.3	31
112	Glucocorticoid Receptor Polymorphism Is Associated With Greater Body Fatness: The Hoorn and CODAM Studies. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2013, 98, E595-E599.	1.8	31
113	Methylglyoxal stress, the glyoxalase system, and diabetic chronic kidney disease. <i>Current Opinion in Nephrology and Hypertension</i> , 2019, 28, 26-33.	1.0	31
114	Interaction of NÎµ(carboxymethyl)lysine- and methylglyoxalmodified albumin with endothelial cells and macrophages. <i>Thrombosis and Haemostasis</i> , 2006, 95, 320-328.	1.8	30
115	Patients With Aldolase B Deficiency Are Characterized by Increased Intrahepatic Triglyceride Content. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2019, 104, 5056-5064.	1.8	30
116	Methylglyoxal-Derived Advanced Glycation Endproducts Accumulate in Multiple Sclerosis Lesions. <i>Frontiers in Immunology</i> , 2019, 10, 855.	2.2	30
117	Abdominal Fat Mass Is Associated With Adaptive Immune Activation: The CODAM Study. <i>Obesity</i> , 2011, 19, 1690-1698.	1.5	29
118	Energy restriction and Roux-en-Y gastric bypass reduce postprandial Î±-dicarbonyl stress in obese women with type 2 diabetes. <i>Diabetologia</i> , 2016, 59, 2013-2017.	2.9	29
119	Impaired microcirculatory perfusion in a rat model of cardiopulmonary bypass: the role of hemodilution. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2016, 310, H550-H558.	1.5	29
120	Postprandial Glucose Spikes, an Important Contributor to Cardiovascular Disease in Diabetes?. <i>Frontiers in Cardiovascular Medicine</i> , 2020, 7, 570553.	1.1	29
121	Biomarkers for post thrombotic syndrome: A case-control study. <i>Thrombosis Research</i> , 2014, 134, 369-375.	0.8	28
122	Atrial Fibrillation Coincides with the Advanced Glycation End Product NÎµ-(Carboxymethyl)Lysine in the Atrium. <i>American Journal of Pathology</i> , 2015, 185, 2096-2104.	1.9	28
123	Mild Oxidative Damage in the Diabetic Rat Heart Is Attenuated by Glyoxalase-1 Overexpression. <i>International Journal of Molecular Sciences</i> , 2013, 14, 15724-15739.	1.8	27
124	A potential role for glycated cross-links in abdominal aortic aneurysm disease. <i>Journal of Vascular Surgery</i> , 2017, 65, 1493-1503.e3.	0.6	27
125	Circulating matrix metalloproteinases are associated with arterial stiffness in patients with type 1 diabetes: pooled analysis of three cohort studies. <i>Cardiovascular Diabetology</i> , 2017, 16, 139.	2.7	27
126	Association of tear fluid amyloid and tau levels with disease severity and neurodegeneration. <i>Scientific Reports</i> , 2021, 11, 22675.	1.6	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). <i>International Journal of Cardiology</i> , 2012, 154, 158-162.	0.8	26
128	Methylglyoxal Scavengers Resensitize KRAS-Mutated Colorectal Tumors to Cetuximab. <i>Cell Reports</i> , 2020, 30, 1400-1416.e6.	2.9	26
129	Multiple Inflammatory Biomarker Detection in a Prospective Cohort Study: A Cross-Validation between Well-Established Single-Biomarker Techniques and an Electrochemiluminescence-Based Multi-Array Platform. <i>PLoS ONE</i> , 2013, 8, e58576.	1.1	26
130	Up-Regulation of the Complement System in Subcutaneous Adipocytes from Nonobese, Hypertriglyceridemic Subjects Is Associated with Adipocyte Insulin Resistance. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2012, 97, 4742-4752.	1.8	25
131	Dysfunctional adipose tissue and low-grade inflammation in the management of the metabolic syndrome: current practices and future advances. <i>F1000Research</i> , 2016, 5, 2515.	0.8	25
132	Independent tissue contributors to obesity-associated insulin resistance. <i>JCI Insight</i> , 2017, 2, .	2.3	25
133	The cross-sectional association between uric acid and atherosclerosis and the role of low-grade inflammation: the CODAM study. <i>Rheumatology</i> , 2014, 53, 2053-2062.	0.9	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. <i>Peritoneal Dialysis International</i> , 2001, 21, 487-494.	1.1	23
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161	BclII glucocorticoid receptor polymorphism in relation to cardiovascular variables: the Hoorn and CODAM studies. <i>European Journal of Endocrinology</i> , 2015, 173, 455-464.	1.9	15
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183	Plasma Methylglyoxal Levels Are Associated With Amputations and Mortality in Severe Limb Ischemia Patients With and Without Diabetes. <i>Diabetes Care</i> , 2021, 44, 157-163.	4.3	11
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187	The Effect of Sulforaphane on Glyoxalase I Expression and Activity in Peripheral Blood Mononuclear Cells. <i>Nutrients</i> , 2018, 10, 1773.	1.7	10
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218	Irbesartan treatment does not influence plasma levels of the dicarbonyls methylglyoxal, glyoxal and 3-deoxyglucosone in participants with type 2 diabetes and microalbuminuria: An IRMA2 substudy. <i>Diabetic Medicine</i> , 2021, 38, e14405.	1.2	5
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223	The role of serum and dietary advanced glycation endproducts in relation to cardiac function and structure: The Hoorn Study. <i>Nutrition, Metabolism and Cardiovascular Diseases</i> , 2021, 31, 3167-3175.	1.1	4
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228	Associations of dicarbonyl stress with complement activation: the CODAM study. <i>Diabetologia</i> , 2020, 63, 1032-1042.	2.9	3
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250	Endothelial dysfunction and low-grade inflammation in the transition to renal replacement therapy. , 2019, 14, e0222547.		0
251	Endothelial dysfunction and low-grade inflammation in the transition to renal replacement therapy. , 2019, 14, e0222547.		0
252	Endothelial dysfunction and low-grade inflammation in the transition to renal replacement therapy. , 2019, 14, e0222547.		0

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253	Endothelial dysfunction and low-grade inflammation in the transition to renal replacement therapy. , 2019, 14, e0222547.		0