D Margriet Ouwens

List of Publications by Year
in descending order

118 papers	6,323 citations	61984 43 h-index	71685 76 g-index
118 all docs	118 docs citations	118 times ranked	9527 citing authors

#	Article	IF	Citations
1	Dipeptidyl Peptidase 4 Is a Novel Adipokine Potentially Linking Obesity to the Metabolic Syndrome. Diabetes, 2011, 60, 1917-1925.	0.6	506
2	Novel insights into glucocorticoidâ€mediated diabetogenic effects: towards expansion of therapeutic options?. European Journal of Clinical Investigation, 2009, 39, 81-93.	3.4	351
3	Cardiac dysfunction induced by high-fat diet is associated with altered myocardial insulin signalling in rats. Diabetologia, 2005, 48, 1229-1237.	6.3	213
4	Growth factors can activate ATF2 via a two-step mechanism: phosphorylation of Thr71 through the Ras-MEK-ERK pathway and of Thr69 through RalGDS-Src-p38. EMBO Journal, 2002, 21, 3782-3793.	7.8	204
5	Mammalian target of rapamycin is a direct target for protein kinase B: identification of a convergence point for opposing effects of insulin and amino-acid deficiency on protein translation. Biochemical Journal, 1999, 344, 427.	3.7	203
6	The role of epicardial and perivascular adipose tissue in the pathophysiology of cardiovascular disease. Journal of Cellular and Molecular Medicine, 2010, 14, 2223-2234.	3.6	192
7	Cardiac contractile dysfunction in insulin-resistant rats fed a high-fat diet is associated with elevated CD36-mediated fatty acid uptake and esterification. Diabetologia, 2007, 50, 1938-1948.	6.3	190
8	Identification and Validation of Novel Adipokines Released from Primary Human Adipocytes. Molecular and Cellular Proteomics, 2012, 11, M111.010504.	3.8	187
9	CD36 deficiency increases insulin sensitivity in muscle, but induces insulin resistance in the liver in mice. Journal of Lipid Research, 2003, 44, 2270-2277.	4.2	155
10	Secretory Products From Epicardial Adipose Tissue of Patients With Type 2 Diabetes Mellitus Induce Cardiomyocyte Dysfunction. Circulation, 2012, 126, 2324-2334.	1.6	155
11	MIF Deficiency Reduces Chronic Inflammation in White Adipose Tissue and Impairs the Development of Insulin Resistance, Glucose Intolerance, and Associated Atherosclerotic Disease. Circulation Research, 2009, 105, 99-107.	4.5	138
12	Secretome profiling of primary human skeletal muscle cells. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2014, 1844, 1011-1017.	2.3	138
13	Role of PRAS40 in Akt and mTOR signaling in health and disease. American Journal of Physiology - Endocrinology and Metabolism, 2012, 302, E1453-E1460.	3.5	133
14	Glucagon-Like Peptide-1 Receptor Agonist Treatment Prevents Glucocorticoid-Induced Glucose Intolerance and Islet-Cell Dysfunction in Humans. Diabetes Care, 2011, 34, 412-417.	8.6	117
15	Increased Hepatic Insulin Sensitivity Together with Decreased Hepatic Triglyceride Stores in Hormone-Sensitive Lipase-Deficient Mice. Endocrinology, 2003, 144, 3456-3462.	2.8	104
16	Altered myocardial substrate metabolism is associated with myocardial dysfunction in early diabetic cardiomyopathy in rats: studies using positron emission tomography. Cardiovascular Diabetology, 2009, 8, 39.	6.8	102
17	Intracerebroventricular Administration of Neuropeptide Y Induces Hepatic Insulin Resistance via Sympathetic Innervation. Diabetes, 2008, 57, 2304-2310.	0.6	101
18	Cardioprotective Properties of Omentin-1 in Type 2 Diabetes: Evidence from Clinical and In Vitro Studies. PLoS ONE, 2013, 8, e59697.	2.5	87

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19	Beneficial and Adverse Effects of Testosterone on the Cardiovascular System in Men. Journal of Clinical Endocrinology and Metabolism, 2013, 98, 4300-4310.	3.6	86
20	Hepatic VLDL Production in ob/ob Mice Is Not Stimulated by Massive De Novo Lipogenesis but Is Less Sensitive to the Suppressive Effects of Insulin. Diabetes, 2003, 52, 1081-1089.	0.6	80
21	Two Naturally Occurring Insulin Receptor Tyrosine Kinase Domain Mutants Provide Evidence That Phosphoinositide 3-Kinase Activation Alone Is Not Sufficient for the Mediation of Insulin's Metabolic and Mitogenic Effects. Journal of Biological Chemistry, 1997, 272, 30208-30214.	3.4	79
22	Endogenous Interleukin-10 Protects against Hepatic Steatosis but Does Not Improve Insulin Sensitivity during High-Fat Feeding in Mice. Endocrinology, 2006, 147, 4553-4558.	2.8	76
23	Phosphorylation of PRAS40 on Thr246 by PKB/AKT facilitates efficient phosphorylation of Ser183 by mTORC1. Cellular Signalling, 2010, 22, 961-967.	3.6	74
24	CD36 inhibition prevents lipid accumulation and contractile dysfunction in rat cardiomyocytes. Biochemical Journal, 2012, 448, 43-53.	3.7	73
25	High Oxidative Capacity Due to Chronic Exercise Training Attenuates Lipid-Induced Insulin Resistance. Diabetes, 2012, 61, 2472-2478.	0.6	71
26	Expression, Enzyme Activity, and Subcellular Localization of Mammalian Target of Rapamycin in Insulin-Responsive Cells. Biochemical and Biophysical Research Communications, 1997, 241, 704-709.	2.1	69
27	The dopamine receptor D2 agonist bromocriptine inhibits glucose-stimulated insulin secretion by direct activation of the Î±2-adrenergic receptors in beta cells. Biochemical Pharmacology, 2010, 79, 1827-1836.	4.4	67
28	Subcellular trafficking of the substrate transporters GLUT4 and CD36 in cardiomyocytes. Cellular and Molecular Life Sciences, 2011, 68, 2525-2538.	5.4	66
29	Loss of 50% of excess weight using a very low energy diet improves insulin-stimulated glucose disposal and skeletal muscle insulin signalling in obese insulin-treated type 2 diabetic patients. Diabetologia, 2008, 51, 309-319.	6.3	63
30	Heat Shock Protein 60 as a Mediator of Adipose Tissue Inflammation and Insulin Resistance. Diabetes, 2012, 61, 615-625.	0.6	62
31	Adiponectin may mediate the association between omentin, circulating lipids and insulin sensitivity: results from the KORA F4 study. European Journal of Endocrinology, 2015, 172, 423-432.	3.7	62
32	Arsenite stimulated glucose transport in 3T3-L1 adipocytes involves both Glut4 translocation and p38 MAPK activity. FEBS Journal, 2003, 270, 3891-3903.	0.2	57
33	Effects of Adding Exercise to a 16-Week Very Low-Calorie Diet in Obese, Insulin-Dependent Type 2 Diabetes Mellitus Patients. Journal of Clinical Endocrinology and Metabolism, 2012, 97, 2512-2520.	3.6	57
34	Activin A impairs insulin action in cardiomyocytes via up-regulation of miR-143. Cardiovascular Research, 2013, 100, 201-210.	3.8	57
35	Acute hepatic steatosis in mice by blocking Î²-oxidation does not reduce insulin sensitivity of very-low-density lipoprotein production. American Journal of Physiology - Renal Physiology, 2005, 289, G592-G598.	3.4	56
36	Regulation of Sarcolemmal Transport of Substrates in the Healthy and Diseased Heart. Cardiovascular Drugs and Therapy, 2006, 20, 471-476.	2.6	53

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37	Sustained activation of the mammalian target of rapamycin nutrient sensing pathway is associated with hepatic insulin resistance, but not with steatosis, in mice. Diabetologia, 2006, 49, 3049-3057.	6.3	53
38	Secretory products of guinea pig epicardial fat induce insulin resistance and impair primary adult rat cardiomyocyte function. Journal of Cellular and Molecular Medicine, 2011, 15, 2399-2410.	3.6	53
39	Tissue-Specific Differences in the Development of Insulin Resistance in a Mouse Model for Type 1 Diabetes. Diabetes, 2014, 63, 3856-3867.	0.6	51
40	Insulin-Mediated Phosphorylation of the Proline-Rich Akt Substrate PRAS40 Is Impaired in Insulin Target Tissues of High-Fat Diet-Fed Rats. Diabetes, 2006, 55, 3221-3228.	0.6	50
41	Determinants of testosterone levels in human male obesity. Endocrine, 2015, 50, 202-211.	2.3	48
42	Functioning of oxidative phosphorylation in liver mitochondria of high-fat diet fed rats. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2007, 1772, 307-316.	3.8	47
43	Secretory products from epicardial adipose tissue from patients with type 2 diabetes impair mitochondrial Î²-oxidation in cardiomyocytes via activation of the cardiac reninâ€“angiotensin system and induction of miR-208a. Basic Research in Cardiology, 2017, 112, 2.	5.9	47
44	Absence of fatty acid transporter CD36 protects against Western-type diet-related cardiac dysfunction following pressure overload in mice. American Journal of Physiology - Endocrinology and Metabolism, 2011, 301, E618-E627.	3.5	44
45	Insulin-induced tyrosine dephosphorylation of paxillin and focal adhesion kinase requires active phosphotyrosine phosphatase 1D. Biochemical Journal, 1996, 318, 609-614.	3.7	43
46	Diabetic cardiomyopathy in Zucker diabetic fatty rats: the forgotten right ventricle. Cardiovascular Diabetology, 2010, 9, 25.	6.8	43
47	Prednisolone-induced beta cell dysfunction is associated with impaired endoplasmic reticulum homeostasis in INS-1E cells. Cellular Signalling, 2011, 23, 1708-1715.	3.6	43
48	VEGF in the Crosstalk between Human Adipocytes and Smooth Muscle Cells: Depot-Specific Release from Visceral and Perivascular Adipose Tissue. Mediators of Inflammation, 2013, 2013, 1-10.	3.0	43
49	Cerebrospinal fluid levels of Alzheimerâ€™s disease biomarkers in middle-aged patients with type 1 diabetes. Diabetologia, 2014, 57, 2208-2214.	6.3	40
50	High levels of dietary stearate promote adiposity and deteriorate hepatic insulin sensitivity. Nutrition and Metabolism, 2010, 7, 24.	3.0	39
51	Chemerin as biomarker for insulin sensitivity in males without typical characteristics of metabolic syndrome. Archives of Physiology and Biochemistry, 2012, 118, 135-138.	2.1	38
52	Targeting of mitochondrial reactive oxygen species production does not avert lipid-induced insulin resistance in muscle tissue from mice. Diabetologia, 2012, 55, 2759-2768.	6.3	37
53	Does dipeptidyl peptidase-4 inhibition prevent the diabetogenic effects of glucocorticoids in men with the metabolic syndrome? A randomized controlled trial. European Journal of Endocrinology, 2014, 170, 429-439.	3.7	36
54	Effect of Sfrp5 on Cytokine Release and Insulin Action in Primary Human Adipocytes and Skeletal Muscle Cells. PLoS ONE, 2014, 9, e85906.	2.5	36

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55	Myocardial insulin action and the contribution of insulin resistance to the pathogenesis of diabetic cardiomyopathy. Archives of Physiology and Biochemistry, 2007, 113, 76-86.	2.1	35
56	Differential regulation of cardiac glucose and fatty acid uptake by endosomal pH and actin filaments. American Journal of Physiology - Cell Physiology, 2010, 298, C1549-C1559.	4.6	35
57	The novel adipokine WISP1 associates with insulin resistance and impairs insulin action in human myotubes and mouse hepatocytes. Diabetologia, 2018, 61, 2054-2065.	6.3	34
58	SREBP-1c expression in Schwann cells is affected by diabetes and nutritional status. Molecular and Cellular Neurosciences, 2007, 35, 525-534.	2.2	32
59	Permissive action of protein kinase C-Î¶ in insulin-induced CD36- and GLUT4 translocation in cardiac myocytes. Journal of Endocrinology, 2009, 201, 199-209.	2.6	32
60	Activin a is associated with impaired myocardial glucose metabolism and left ventricular remodeling in patients with uncomplicated type 2 diabetes. Cardiovascular Diabetology, 2013, 12, 150.	6.8	32
61	Sex Steroids Affect Triglyceride Handling, Glucose-Dependent Insulinotropic Polypeptide, and Insulin Sensitivity. Diabetes Care, 2010, 33, 1831-1833.	8.6	31
62	Assessment of circulating Wnt1 inducible signalling pathway protein 1 (WISP-1)/CCN4 as a novel biomarker of obesity. Journal of Cell Communication and Signaling, 2018, 12, 539-548.	3.4	30
63	Increased Glycolysis and Higher Lactate Production in Hyperglycemic Myotubes. Cells, 2019, 8, 1101.	4.1	30
64	PRAS40: Target or modulator of mTORC1 signalling and insulin action?. Archives of Physiology and Biochemistry, 2009, 115, 163-175.	2.1	29
65	Combined Gene and Protein Expression of Hormone-Sensitive Lipase and Adipose Triglyceride Lipase, Mitochondrial Content, and Adipocyte Size in Subcutaneous and Visceral Adipose Tissue of Morbidly Obese Men. Obesity Facts, 2011, 4, 407-416.	3.4	29
66	Presence of Gonadotropin-Releasing Hormone (GnRH) Binding Sites and Compounds with GnRH-Like Activity in the Ovary of African Catfish, Clarias Gariepinus1. Biology of Reproduction, 1994, 50, 643-652.	2.7	28
67	The adipokine sFRP4 induces insulin resistance and lipogenesis in the liver. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2019, 1865, 2671-2684.	3.8	28
68	Evaluation of proinflammatory cytokines and inflammation markers as biomarkers for the action of thiazolidinediones in Type 2 diabetes mellitus patients and healthy volunteers. British Journal of Clinical Pharmacology, 2006, 62, 391-402.	2.4	27
69	Glucocorticoid treatment impairs microvascular function in healthy men in association with its adverse effects on glucose metabolism and blood pressure: a randomised controlled trial. Diabetologia, 2013, 56, 2383-2391.	6.3	26
70	Hyperosmotic stress activates the insulin receptor in CHO cells. Biochimica Et Biophysica Acta - Molecular Cell Research, 2001, 1540, 97-106.	4.1	25
71	The Role of c-Jun N-Terminal Kinase, p38, and Extracellular Signal-Regulated Kinase in Insulin-Induced Thr69 and Thr71 Phosphorylation of Activating Transcription Factor 2. Molecular Endocrinology, 2006, 20, 1786-1795.	3.7	25
72	Over-expression of PRAS40 enhances insulin sensitivity in skeletal muscle. Archives of Physiology and Biochemistry, 2014, 120, 64-72.	2.1	25

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73	Adipocyte-derived factors impair insulin signaling in differentiated human vascular smooth muscle cells via the upregulation of miR-143. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2014, 1842, 275-283.	3.8	25
74	Reduced expression of chemerin in visceral adipose tissue associates with hepatic steatosis in patients with obesity. Obesity, 2016, 24, 2544-2552.	3.0	23
75	Physiological Disturbance in Fatty Liver Energy Metabolism Converges on IGFBP2 Abundance and Regulation in Mice and Men. International Journal of Molecular Sciences, 2020, 21, 4144.	4.1	22
76	Rhein, a novel Histone Deacetylase (HDAC) inhibitor with antifibrotic potency in human myocardial fibrosis. Scientific Reports, 2020, 10, 4888.	3.3	22
77	Circulating insulin stimulates fatty acid retention in white adipose tissue via KATP channel activation in the central nervous system only in insulin-sensitive mice. Journal of Lipid Research, 2011, 52, 1712-1722.	4.2	21
78	Sex Steroid-Induced Changes in Circulating Monocyte Chemoattractant Protein-1 Levels May Contribute to Metabolic Dysfunction in Obese Men. Journal of Clinical Endocrinology and Metabolism, 2012, 97, E1187-E1191.	3.6	20
79	Endogenous oestradiol and cardiovascular disease in healthy men: a systematic review and meta-analysis of prospective studies. Heart, 2012, 98, 1478-1482.	2.9	20
80	Modulation of insulin-stimulated glycogen synthesis by Src Homology Phosphatase 2. Molecular and Cellular Endocrinology, 2001, 175, 131-140.	3.2	19
81	Lessons that can be learned from patients with diabetogenic mutations in mitochondrial DNA: implications for common type 2 diabetes. Current Opinion in Clinical Nutrition and Metabolic Care, 2007, 10, 693-697.	2.5	19
82	Knockdown of PRAS40 inhibits insulin action via proteasome-mediated degradation of IRS1 in primary human skeletal muscle cells. Diabetologia, 2013, 56, 1118-1128.	6.3	18
83	The insulin sensitizing effect of topiramate involves <scp>K_{ATP}</scp> channel activation in the central nervous system. British Journal of Pharmacology, 2013, 170, 908-918.	5.4	18
84	One-leg inactivity induces a reduction in mitochondrial oxidative capacity, intramyocellular lipid accumulation and reduced insulin signalling upon lipid infusion: a human study with unilateral limb suspension. Diabetologia, 2020, 63, 1211-1222.	6.3	18
85	Impact of hyperinsulinemia and hyperglycemia on valvular interstitial cells â€“ A link between aortic heart valve degeneration and type 2 diabetes. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2019, 1865, 2526-2537.	3.8	16
86	CDH13 abundance interferes with adipocyte differentiation and is a novel biomarker for adipose tissue health. International Journal of Obesity, 2018, 42, 1039-1050.	3.4	15
87	Increased triacylglycerol - Fatty acid substrate cycling in human skeletal muscle cells exposed to eicosapentaenoic acid. PLoS ONE, 2018, 13, e0208048.	2.5	15
88	Skin fibroblasts of children with idiopathic short stature show an increased mitogenic response to IGF-I and secrete more IGFBP-3. Clinical Endocrinology, 2002, 56, 439-447.	2.4	14
89	Short-term increase of plasma free fatty acids does not interfere with intrinsic mitochondrial function in healthy young men. Metabolism: Clinical and Experimental, 2011, 60, 1398-1405.	3.4	14
90	Overexpression of AMP-activated protein kinase or protein kinase D prevents lipid-induced insulin resistance in cardiomyocytes. Journal of Molecular and Cellular Cardiology, 2013, 55, 165-173.	1.9	14

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91	Glucose Intolerance and the Amount of Visceral Adipose Tissue Contribute to an Increase in Circulating Triglyceride Concentrations in Caucasian Obese Females. PLoS ONE, 2012, 7, e45145.	2.5	12
92	The nuclear appearance of ERK1/2 and p38 determines the sequential induction of ATF2-Thr71 and ATF2-Thr69 phosphorylation by serum in JNK-deficient cells. Molecular and Cellular Endocrinology, 2009, 311, 94-100.	3.2	11
93	Sfrp5 increases glucose-stimulated insulin secretion in the rat pancreatic beta cell line INS-1E. PLoS ONE, 2019, 14, e0213650.	2.5	11
94	Activation of Overexpressed Receptors for Insulin and Epidermal Growth Factor Interferes in Mitogenic Signaling without Affecting the Activation of p21ras. Biochemistry, 1994, 33, 7453-7459.	2.5	10
95	Replacement of the Conserved Tyrosine 1210 by Phenylalanine in the Insulin Receptor Affects Insulin-Induced Dephosphorylation of Focal Adhesion Kinase but Leaves Other Responses Intactâ€. Biochemistry, 1996, 35, 10377-10382.	2.5	10
96	Effect of a 2-day very low-energy diet on skeletal muscle insulin sensitivity in obese type 2 diabetic patients on insulin therapy. Metabolism: Clinical and Experimental, 2005, 54, 1669-1678.	3.4	10
97	Effects of DPP-4 Inhibitor Linagliptin Versus Sulfonylurea Glimepiride as Add-on to Metformin on Renal Physiology in Overweight Patients With Type 2 Diabetes (RENALIS): A Randomized, Double-Blind Trial. Diabetes Care, 2020, 43, 2889-2893.	8.6	10
98	IRS-4 mediated mitogenic signalling by insulin and growth hormone in LB cells, a murine T-cell lymphoma devoid of IGF-I receptors. Cellular Signalling, 2003, 15, 385-394.	3.6	9
99	Deletion of the RabGAP TBC1D1 Leads to Enhanced Insulin Secretion and Fatty Acid Oxidation in Islets From Male Mice. Endocrinology, 2018, 159, 1748-1761.	2.8	9
100	Involvement of atypical protein kinase C in the regulation of cardiac glucose and long-chain fatty acid uptake. Frontiers in Physiology, 2012, 3, 361.	2.8	8
101	Prednisolone induces the Wnt signalling pathway in 3T3-L1 adipocytes. Archives of Physiology and Biochemistry, 2013, 119, 52-64.	2.1	8
102	Hepatic Wnt1 Inducible Signaling Pathway Protein 1 (WISP-1/CCN4) Associates with Markers of Liver Fibrosis in Severe Obesity. Cells, 2021, 10, 1048.	4.1	7
103	Postprandial renal haemodynamic effects of the dipeptidyl peptidaseâ€4 inhibitor linagliptin versus the sulphonylurea glimepiride in adults with type 2 diabetes (<scp>RENALIS</scp>): A predefined substudy of a randomized, doubleâ€blind trial. Diabetes, Obesity and Metabolism, 2022, 24, 115-124.	4.4	7
104	Insulin resistance associates with hepatic lobular inflammation in subjects with obesity. Endocrine Connections, 2019, 8, 1294-1301.	1.9	7
105	Effect of the long-acting insulin analogues glargine and degludec on cardiomyocyte cell signalling and function. Cardiovascular Diabetology, 2016, 15, 96.	6.8	6
106	Effects of dipeptidyl peptidaseâ€4 inhibitor linagliptin versus sulphonylurea glimepiride on systemic haemodynamics in overweight patients with type 2 diabetes: A secondary analysis of an 8â€week, randomized, controlled, doubleâ€blind trial. Diabetes, Obesity and Metabolism, 2020, 22, 1847-1856.	4.4	6
107	Molecular mechanisms of contraction-regulated cardiac glucose transport. Biochemical Journal, 2000, 346, 841.	3.7	5
108	Dynamics of insulin signalling in liver during hyperinsulinemic euglycaemic clamp conditionsin vivoand the effects of high-fat feeding in male mice. Archives of Physiology and Biochemistry, 2007, 113, 173-185.	2.1	5

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109	Proline-rich Akt substrate of 40-kDa contains a nuclear export signal. Cellular Signalling, 2013, 25, 1762-1768.	3.6	5
110	Identification of novel adipokines differential regulated in C57BL/Ks and C57BL/6. Archives of Physiology and Biochemistry, 2014, 120, 208-215.	2.1	5
111	Nudix hydrolase NUDT19 regulates mitochondrial function and ATP production in murine hepatocytes. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2022, 1867, 159153.	2.4	4
112	Soluble CD14 inhibits contractile function and insulin action in primary adult rat cardiomyocytes. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2017, 1863, 365-374.	3.8	3
113	Enzymatic Activity Is Not Required for Phospholipase D Mediated TNF-Î± Regulation and Myocardial Healing. Frontiers in Physiology, 2018, 9, 1698.	2.8	3
114	Divergent dynamics in systemic and tissue-specific metabolic and inflammatory responses during weight loss in subjects with obesity. Cytokine, 2021, 144, 155587.	3.2	3
115	The small chain fatty acid butyrate antagonizes the TCR-stimulation-induced metabolic shift in murine epidermal gamma delta T cells. EXCLI Journal, 2020, 19, 334-350.	0.7	3
116	Expression of a dominant-negative Ras mutant does not affect stimulation of glucose uptake and glycogen synthesis by insulin. Diabetologia, 1996, 39, 558-563.	6.3	3
117	Crosstalk of Diabetic Conditions with Static Versus Dynamic Flow Environmentâ€"Impact on Aortic Valve Remodeling. International Journal of Molecular Sciences, 2021, 22, 6976.	4.1	2
118	Differential regulation of cardiac GLUT4-mediated glucose and CD36-mediated fatty acid uptake by endosomal pH and actin filaments. Chemistry and Physics of Lipids, 2010, 163, S11.	3.2	0