Cor de Wit

List of Publications by Year
in descending order

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105 papers	6,500 citations	53939 47 h-index	73587 79 g-index
106 all docs	106 docs citations	106 times ranked	7220 citing authors

#	Article	IF	Citations
1	Functional and structural adaptations of the coronary macro- and microvasculature to regular aerobic exercise by activation of physiological, cellular, and molecular mechanisms: ESC Working Group on Coronary Pathophysiology and Microcirculation position paper. Cardiovascular Research, 2022, 118, 357-371.	1.8	19
2	Mechanobiology of Arterial Hypertension. Cardiac and Vascular Biology, 2021, , 277-298.	0.2	0
3	The mitochondrial thioredoxin reductase system (TrxR2) in vascular endothelium controls peroxynitrite levels and tissue integrity. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	25
4	Expression of Connexin43 Stimulates Endothelial Angiogenesis Independently of Gap Junctional Communication In Vitro. International Journal of Molecular Sciences, 2021, 22, 7400.	1.8	12
5	KATP channels and NO dilate redundantly intramuscular arterioles during electrical stimulation of the skeletal muscle in mice. Pflugers Archiv European Journal of Physiology, 2021, 473, 1795-1806.	1.3	2
6	Cardiovascular disease and COVID-19: a consensus paper from the ESC Working Group on Coronary Pathophysiology & Microcirculation, ESC Working Group on Thrombosis and the Association for Acute CardioVascular Care (ACVC), in collaboration with the European Heart Rhythm Association (EHRA). Cardiovascular Research, 2021, 117, 2705-2729.	1.8	95
7	Depression and coronary heart disease: 2018 position paper of the ESC working group on coronary pathophysiology and microcirculation. European Heart Journal, 2020, 41, 1687-1696.	1.0	203
8	Endothelium-Derived Hyperpolarizing Factor and Myoendothelial Coupling: The in vivo Perspective. Frontiers in Physiology, 2020, 11, 602930.	1.3	19
9	The ESC Working Group on Coronary Pathophysiology and Microcirculation. European Heart Journal, 2020, 41, 2150-2151.	1.0	1
10	ESC Working Group on Coronary Pathophysiology and Microcirculation position paper on â€˜coronary microvascular dysfunction in cardiovascular diseaseâ€™. Cardiovascular Research, 2020, 116, 741-755.	1.8	147
11	Impaired endothelium-mediated cerebrovascular reactivity promotes anxiety and respiration disorders in mice. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 1753-1761.	3.3	39
12	Basic Concepts of the Microcirculation. , 2020, , 3-20.		0
13	Angiotensin-converting-enzyme inhibitors in hemodynamic congestion: a meta-analysis of early studies. Clinical Research in Cardiology, 2019, 108, 1240-1248.	1.5	11
14	Preserved cardiovascular homeostasis despite blunted acetylcholineâ€induced dilation in mice with endothelial muscarinic M3 receptor deletion. Acta Physiologica, 2019, 226, e13262.	1.8	9
15	Myoendothelial coupling through Cx40 contributes to <scp>EDH</scp>â€induced vasodilation in murine renal arteries: evidence from experiments and modelling. Acta Physiologica, 2018, 222, e12906.	1.8	22
16	A shear-dependent NO-cGMP-cGKI cascade in platelets acts as an auto-regulatory brake of thrombosis. Nature Communications, 2018, 9, 4301.	5.8	32
17	Mechanisms of Connexin-Related Lymphedema. Circulation Research, 2018, 123, 964-985.	2.0	54
18	Position paper of the European Society of Cardiologyâ€“working group of coronary pathophysiology and microcirculation: obesity and heart disease. European Heart Journal, 2017, 38, 1951-1958.	1.0	64

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19	Oxidant sensor in the cGMP-binding pocket of PKGIÎ± regulates nitroxyl-mediated kinase activity. Scientific Reports, 2017, 7, 9938.	1.6	22
20	Communication Through Gap Junctions in the Endothelium. Advances in Pharmacology, 2016, 77, 209-240.	1.2	8
21	Proatherosclerotic Effect of the Î±1-Subunit of Soluble Guanylyl Cyclase by Promoting Smooth Muscle Phenotypic Switching. American Journal of Pathology, 2016, 186, 2220-2231.	1.9	19
22	Central Role of P2Y ₆ UDP Receptor in Arteriolar Myogenic Tone. Arteriosclerosis, Thrombosis, and Vascular Biology, 2016, 36, 1598-1606.	1.1	64
23	Real-time imaging of cGMP signals in platelets. BMC Pharmacology & Toxicology, 2015, 16, .	1.0	0
24	Flow Increase Is Decisive to Initiate Angiogenesis in Veins Exposed to Altered Hemodynamics. PLoS ONE, 2015, 10, e0117407.	1.1	31
25	Keep calm and carry on: miR-1298 prevents up-regulation of Cx43 and secures a quiescent vascular smooth muscle cell: FigureÂ1. Cardiovascular Research, 2015, 107, 407-409.	1.8	7
26	Two polymorphisms in the Cx40 promoter are associated with hypertension and left ventricular hypertrophy preferentially in men. Clinical and Experimental Hypertension, 2015, 37, 580-586.	0.5	9
27	Coronary vascular regulation, remodelling, and collateralization: mechanisms and clinical implications on behalf of the working group on coronary pathophysiology and microcirculation. European Heart Journal, 2015, 36, 3134-3146.	1.0	177
28	ADAMTS-7 Inhibits Re-endothelialization of Injured Arteries and Promotes Vascular Remodeling Through Cleavage of Thrombospondin-1. Circulation, 2015, 131, 1191-1201.	1.6	125
29	Exercise may be detrimental in hypertension: too much of a good thing!. Hypertension Research, 2015, 38, 644-645.	1.5	1
30	Correlative intravital imaging of cGMP signals and vasodilation in mice. Frontiers in Physiology, 2014, 5, 394.	1.3	21
31	Restoring a Critical Element in Renin-Producing Cells. Hypertension, 2014, 63, 1161-1162.	1.3	0
32	Presentation, management, and outcomes of ischaemic heart disease in women. Nature Reviews Cardiology, 2013, 10, 508-518.	6.1	103
33	Dysfunctional nitric oxide signalling increases risk of myocardial infarction. Nature, 2013, 504, 432-436.	13.7	230
34	Transgenic Mice for cGMP Imaging. Circulation Research, 2013, 113, 365-371.	2.0	66
35	Activation of <scp>K_{Ca}</scp>3.1 by <scp>SKA</scp>â€31 induces arteriolar dilatation and lowers blood pressure in normoâ€and hypertensive connexin40â€deficient mice. British Journal of Pharmacology, 2013, 170, 293-303.	2.7	43
36	High Flow Conditions Increase Connexin43 Expression in a Rat Arteriovenous and Angioinductive Loop Model. PLoS ONE, 2013, 8, e78782.	1.1	19

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37	Association of two polymorphisms in the Cx40 promoter with hypertension and leftventricular hypertrophy. FASEB Journal, 2013, 27, 678.10.	0.2	0
38	Alterations in the nitric oxide / soluble guanylyl cyclase pathway enhance the risk of myocardial infarction. FASEB Journal, 2013, 27, 686.10.	0.2	0
39	Defective Cx40 Maintains Cx37 Expression but Intact Cx40 Is Crucial for Conducted Dilations Irrespective of Hypertension. Hypertension, 2012, 60, 1422-1429.	1.3	52
40	Regulation of tumor growth and angiogenesis in colorectal cancer. European Surgery - Acta Chirurgica Austriaca, 2012, 44, 336-340.	0.3	0
41	Cellâ€“Cell Communication Through Gap Junctions. , 2012, , 1259-1268.		0
42	Pharmacological activation of KCa3.1/KCa2.3 channels produces endothelial hyperpolarization and lowers blood pressure in conscious dogs. British Journal of Pharmacology, 2012, 165, 223-234.	2.7	60
43	Hypoxic pulmonary vasoconstriction requires connexin 40â€“mediated endothelial signal conduction. Journal of Clinical Investigation, 2012, 122, 4218-4230.	3.9	134
44	Connexin45 Is Expressed in Vascular Smooth Muscle but Its Function Remains Elusive. PLoS ONE, 2012, 7, e42287.	1.1	34
45	Ischaemic heart disease in women: are there sex differences in pathophysiology and risk factors?: Position Paper from the Working Group on Coronary Pathophysiology and Microcirculation of the European Society of Cardiology. Cardiovascular Research, 2011, 90, 9-17.	1.8	242
46	Distinct Endothelium-Derived Hyperpolarizing Factors Emerge In Vitro and In Vivo and Are Mediated in Part via Connexin 40â€“Dependent Myoendothelial Coupling. Hypertension, 2011, 57, 802-808.	1.3	43
47	The endothelium at the brink of calamity in storage disease: more than just overloaded with junk?. Cardiovascular Research, 2011, 89, 258-259.	1.8	3
48	Connexins and gap junctions in the EDHF phenomenon and conducted vasomotor responses. Pflugers Archiv European Journal of Physiology, 2010, 459, 897-914.	1.3	136
49	Amplification of EDHFâ€type vasodilatations in TRPC1â€deficient mice. British Journal of Pharmacology, 2010, 161, 1722-1733.	2.7	30
50	Crucial importance of the endothelial K ⁺ channel SK3 and connexin40 in arteriolar dilations during skeletal muscle contraction. FASEB Journal, 2010, 24, 3572-3579.	0.2	63
51	Endothelial-Specific Deletion of Connexin40 Promotes Atherosclerosis by Increasing CD73-Dependent Leukocyte Adhesion. Circulation, 2010, 121, 123-131.	1.6	126
52	Different pathways with distinct properties conduct dilations in the microcirculation in vivo. Cardiovascular Research, 2010, 85, 604-613.	1.8	72
53	Selective deletion of Connexin 40 in renin-producing cells impairs renal baroreceptor function and is associated with arterial hypertension. Kidney International, 2010, 78, 762-768.	2.6	71
54	Semiautomatic Quantification of Angiogenesis. Journal of Surgical Research, 2010, 162, 132-139.	0.8	6

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55	A critical role for connexin 40 in hypoxia induced pulmonary vasoconstriction. FASEB Journal, 2010, 24, 795.7.	0.2	0
56	Connexin 40 Mediates the Tubuloglomerular Feedback Contribution to Renal Blood Flow Autoregulation. Journal of the American Society of Nephrology: JASN, 2009, 20, 1577-1585.	3.0	51
57	Prominent role of KCa3.1 in endothelium-derived hyperpolarizing factor-type dilations and conducted responses in the microcirculation in vivo. Cardiovascular Research, 2009, 82, 476-483.	1.8	72
58	Genetic Deficit of SK3 and IK1 Channels Disrupts the Endothelium-Derived Hyperpolarizing Factor Vasodilator Pathway and Causes Hypertension. Circulation, 2009, 119, 2323-2332.	1.6	215
59	Substitution of connexin40 with connexin45 prevents hyperreninemia and attenuates hypertension. Kidney International, 2009, 75, 482-489.	2.6	50
60	Connexins in the Vasculature. , 2009, , 457-468.		1
61	Impaired Renal Blood Flow Autoregulation due to Compromised Tubuloglomerular Feedback in Mice Lacking Connexin 40. FASEB Journal, 2009, 23, 804.11.	0.2	0
62	Connexin 40 is essential for hypoxic pulmonary vasoconstriction. FASEB Journal, 2009, 23, 1002.7.	0.2	0
63	Signaling across Myoendothelial Gap Junctionsâ€"Fact or fiction?. Cell Communication and Adhesion, 2008, 15, 231-245.	1.0	50
64	A review of methods for assessment of coronary microvascular disease in both clinical and experimental settings. Cardiovascular Research, 2008, 80, 165-174.	1.8	94
65	Gap junctions synchronize vascular tone within the microcirculation. Pharmacological Reports, 2008, 60, 68-74.	1.5	50
66	EDHF and Gap Junctions: Important Regulators of Vascular Tone Within the Microcirculation. Current Pharmaceutical Biotechnology, 2007, 8, 11-25.	0.9	60
67	Endogenous and exogenous NO attenuates conduction of vasoconstrictions along arterioles in the microcirculation. American Journal of Physiology - Heart and Circulatory Physiology, 2007, 292, H2341-H2348.	1.5	23
68	Lack of Connexin 40 Causes Displacement of Renin-Producing Cells from Afferent Arterioles to the Extraglomerular Mesangium. Journal of the American Society of Nephrology: JASN, 2007, 18, 1103-1111.	3.0	104
69	Increased expression of cyclooxygenase 2 contributes to aberrant renin production in connexin 40-deficient kidneys. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2007, 293, R1781-R1786.	0.9	14
70	Closing the Gap at Hot Spots. Circulation Research, 2007, 100, 931-933.	2.0	6
71	Connexin45 Cannot Replace the Function of Connexin40 in Conducting Endothelium-Dependent Dilations Along Arterioles. Circulation Research, 2007, 101, 1292-1299.	2.0	87
72	Connexin40 Is Essential for the Pressure Control of Renin Synthesis and Secretion. Circulation Research, 2007, 100, 556-563.	2.0	197

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73	Gap junctional communication via connexin40 is essential for the pressure control of the renin system. FASEB Journal, 2007, 21, A502.	0.2	3
74	Connexin-Dependent Communication within the Vascular Wall: Contribution to the Control of Arteriolar Diameter. , 2006, 42, 268-283.		46
75	Impaired Endothelium-Derived Hyperpolarizing Factor-Mediated Dilations and Increased Blood Pressure in Mice Deficient of the Intermediate-Conductance Ca 2+ -Activated K + Channel. Circulation Research, 2006, 99, 537-544.	2.0	231
76	Endothelial mediators and communication through vascular gap junctions. Biological Chemistry, 2006, 387, 3-9.	1.2	65
77	Different mechanisms induce remote responses: Acetylcholine versus adenosine. FASEB Journal, 2006, 20, .	0.2	0
78	Myoendothelial Coupling Is Not Prominent in Arterioles Within the Mouse Cremaster Microcirculation In Vivo. Circulation Research, 2005, 97, 781-788.	2.0	81
79	Intact Endothelium-Dependent Dilation and Conducted Responses in Resistance Vessels of Hypercholesterolemic Mice in vivo. Journal of Vascular Research, 2005, 42, 475-482.	0.6	71
80	Connexins Pave the Way for Vascular Communication. Physiology, 2004, 19, 148-153.	1.6	36
81	cGMP-Dependent Protein Kinase Mediates NO- but not Acetylcholine-Induced Dilations in Resistance Vessels In Vivo. Hypertension, 2004, 44, 952-955.	1.3	72
82	Retinoic acid treatment protects MRL/lpr lupus mice from the development of glomerular disease. Kidney International, 2004, 66, 1018-1028.	2.6	79
83	Nitric Oxide-Induced Decrease in Calcium Sensitivity of Resistance Arteries Is Attributable to Activation of the Myosin Light Chain Phosphatase and Antagonized by the RhoA/Rho Kinase Pathway. Circulation, 2003, 107, 3081-3087.	1.6	128
84	Lack of vascular connexin 40 is associated with hypertension and irregular arteriolar vasomotion. Physiological Genomics, 2003, 13, 169-177.	1.0	184
85	Angiotensin Inhibition Reduces Glomerular Damage and Renal Chemokine Expression in MRL/lpr Mice. Journal of Pharmacology and Experimental Therapeutics, 2003, 307, 275-281.	1.3	45
86	Magnetofectionâ€"A highly efficient tool for antisense oligonucleotide delivery in vitro and in vivo. Molecular Therapy, 2003, 7, 700-710.	3.7	179
87	EDHF, but not NO or prostaglandins, is critical to evoke a conducted dilation upon ACh in hamster arterioles. American Journal of Physiology - Heart and Circulatory Physiology, 2002, 283, H996-H1004.	1.5	80
88	Endothelium-specific replacement of the connexin43 coding region by a lacZ reporter gene. Genesis, 2001, 29, 1-13.	0.8	162
89	Chronic increases in transmural pressure reduce NO-mediated dilations in isolated resistance arteries of the hamster. Acta Physiologica Scandinavica, 2000, 168, 113-117.	2.3	8
90	Large arterioles in the control of blood flow: role of endothelium-dependent dilation. Acta Physiologica Scandinavica, 2000, 168, 505-510.	2.3	78

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91	Antisense oligonucleotides against cytochrome P450 2C8 attenuate EDHFâ€mediated Ca 2+ changes and dilation in isolated resistance arteries. FASEB Journal, 2000, 14, 255-260.	0.2	96
92	Intact endothelial and smooth muscle function in small resistance arteries after 48 h in vessel culture. American Journal of Physiology - Heart and Circulatory Physiology, 2000, 279, H1434-H1439.	1.5	24
93	Nitric oxide prevents cardiovascular disease and determines survival in polyglobulic mice overexpressing erythropoietin. Proceedings of the National Academy of Sciences of the United States of America, 2000, 97, 11609-11613.	3.3	238
94	Impaired Conduction of Vasodilation Along Arterioles in Connexin40-Deficient Mice. Circulation Research, 2000, 86, 649-655.	2.0	313
95	Oxidized LDL Increases the Sensitivity of the Contractile Apparatus in Isolated Resistance Arteries for Ca ²⁺ via a Rho- and Rho Kinaseâ€"Dependent Mechanism. Circulation, 2000, 102, 2402-2410.	1.6	37
96	Pentobarbital-sensitive EDHF comediates ACh-induced arteriolar dilation in the hamster microcirculation. American Journal of Physiology - Heart and Circulatory Physiology, 1999, 276, H1527-H1534.	1.5	38
97	A Unique Role of NO in the Control of Blood Flow. Physiology, 1999, 14, 74-80.	1.6	21
98	Endothelium-derived hyperpolarizing factor but not NO reduces smooth muscle Ca2+ during acetylcholine-induced dilation of microvessels. British Journal of Pharmacology, 1999, 128, 124-134.	2.7	87
99	Myogenic effects enhance norepinephrine constriction: Inhibition by nitric oxide and felodipine. Kidney International, 1998, 54, S122-S126.	2.6	5
100	Nitric Oxide Opposes Myogenic Pressure Responses Predominantly in Large Arterioles In Vivo. Hypertension, 1998, 31, 787-794.	1.3	58
101	Elevation of plasma viscosity induces sustained NO-mediated dilation in the hamster cremaster microcirculation in vivo. Pflugers Archiv European Journal of Physiology, 1997, 434, 354-361.	1.3	77
102	Synergistic action of vasodilators that increase cGMP and cAMP in the hamster cremaster microcirculation. Cardiovascular Research, 1994, 28, 1513-1518.	1.8	49
103	Mediator Role of Prostaglandins in Acetylcholine-Induced Vasodilation and Control of Resting Vascular Diameter in the Hamster Cremaster Microcirculation in vivo. Journal of Vascular Research, 1993, 30, 272-278.	0.6	33
104	Experimental studies on the nephrotoxicity of amphotericin B in rats. Journal of Antimicrobial Chemotherapy, 1991, 28, 271-281.	1.3	12
105	Experimental studies on nephrotoxicity and pharmacokinetics of LY 146032 (daptomycin) in rats. Journal of Antimicrobial Chemotherapy, 1990, 25, 635-643.	1.3	13