

Edzard Schwedhelm

List of Publications by Citations

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104
papers

2,976
citations

30
h-index

52
g-index

108
ext. papers

3,571
ext. citations

5.8
avg. IF

4.91
L-index

#	Paper	IF	Citations
104	Pharmacokinetic and pharmacodynamic properties of oral L-citrulline and L-arginine: impact on nitric oxide metabolism. <i>British Journal of Clinical Pharmacology</i> , 2008 , 65, 51-9	3.8	313
103	Plasma asymmetric dimethylarginine and incidence of cardiovascular disease and death in the community. <i>Circulation</i> , 2009 , 119, 1592-600	16.7	270
102	The role of asymmetric and symmetric dimethylarginines in renal disease. <i>Nature Reviews Nephrology</i> , 2011 , 7, 275-85	14.9	167
101	High-throughput liquid chromatographic-tandem mass spectrometric determination of arginine and dimethylated arginine derivatives in human and mouse plasma. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2007 , 851, 211-9	3.2	131
100	Liquid chromatography-tandem mass spectrometry method for the analysis of asymmetric dimethylarginine in human plasma. <i>Clinical Chemistry</i> , 2005 , 51, 1268-71	5.5	109
99	Homoarginine levels are regulated by L-arginine:glycine amidinotransferase and affect stroke outcome: results from human and murine studies. <i>Circulation</i> , 2013 , 128, 1451-61	16.7	102
98	Symmetric dimethylarginine predicts all-cause mortality following ischemic stroke. <i>Atherosclerosis</i> , 2010 , 208, 518-23	3.1	102
97	Pathophysiology of isoprostanes in the cardiovascular system: implications of isoprostane-mediated thromboxane A2 receptor activation. <i>British Journal of Pharmacology</i> , 2014 , 171, 3115-31	8.6	95
96	Decreased serum concentrations of sphingosine-1-phosphate in sepsis. <i>Critical Care</i> , 2015 , 19, 372	10.8	81
95	Isoprostanes inhibit vascular endothelial growth factor-induced endothelial cell migration, tube formation, and cardiac vessel sprouting in vitro, as well as angiogenesis in vivo via activation of the thromboxane A(2) receptor: a potential link between oxidative stress and impaired angiogenesis. <i>Circulation Research</i> , 2008 , 103, 1037-46	15.7	79
94	Targeting sphingosine-1-phosphate lyase as an anabolic therapy for bone loss. <i>Nature Medicine</i> , 2018 , 24, 667-678	50.5	62
93	Symmetrical dimethylarginine predicts mortality in the general population: observations from the Dallas heart study. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2013 , 33, 2682-8	9.4	59
92	Human leucocyte antigen (HLA-DR) gene expression is reduced in sepsis and correlates with impaired TNF α response: A diagnostic tool for immunosuppression?. <i>PLoS ONE</i> , 2017 , 12, e0182427	3.7	58
91	Homoarginine and cardiovascular outcome in the population-based Dallas Heart Study. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2014 , 34, 2501-7	9.4	57
90	L-homoarginine and cardiovascular disease. <i>Current Opinion in Clinical Nutrition and Metabolic Care</i> , 2015 , 18, 83-8	3.8	56
89	Asymmetric and symmetric dimethylarginine and risk of secondary cardiovascular disease events and mortality in patients with stable coronary heart disease: the KAROLA follow-up study. <i>Clinical Research in Cardiology</i> , 2013 , 102, 193-202	6.1	56
88	Stable isotope dilution assay for liquid chromatography-tandem mass spectrometric determination of L-homoarginine in human plasma. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2011 , 879, 2294-8	3.2	51

87	Homoarginine--an independent marker of mortality in heart failure. <i>International Journal of Cardiology</i> , 2013 , 168, 4907-9	3.2	48
86	Pathogenic cycle between the endogenous nitric oxide synthase inhibitor asymmetrical dimethylarginine and the leukocyte-derived hemoprotein myeloperoxidase. <i>Circulation</i> , 2011 , 124, 2735-45	16.7	47
85	Symmetric dimethylarginine, high-density lipoproteins and cardiovascular disease. <i>European Heart Journal</i> , 2017 , 38, 1597-1607	9.5	45
84	Asymmetric dimethylarginine reference intervals determined with liquid chromatography-tandem mass spectrometry: results from the Framingham offspring cohort. <i>Clinical Chemistry</i> , 2009 , 55, 1539-45	5.5	44
83	Symmetric dimethylarginine is a marker of detrimental outcome in the acute phase after ischaemic stroke: role of renal function. <i>Clinical Science</i> , 2012 , 122, 105-11	6.5	42
82	Association of the endogenous nitric oxide synthase inhibitor ADMA with carotid artery intimal media thickness in the Framingham Heart Study offspring cohort. <i>Stroke</i> , 2009 , 40, 2715-9	6.7	40
81	Independent association of urinary F2-isoprostanes with survival in pulmonary arterial hypertension. <i>Chest</i> , 2012 , 142, 869-876	5.3	40
80	Genome-wide association study of L-arginine and dimethylarginines reveals novel metabolic pathway for symmetric dimethylarginine. <i>Circulation: Cardiovascular Genetics</i> , 2014 , 7, 864-72		38
79	Markers of nitric oxide are associated with sepsis severity: an observational study. <i>Critical Care</i> , 2017 , 21, 189	10.8	35
78	Oxidative stress in drug-naïve first episode patients with schizophrenia and major depression: effects of disease acuity and potential confounders. <i>European Archives of Psychiatry and Clinical Neuroscience</i> , 2018 , 268, 129-143	5.1	32
77	Oral supplementation with L-homoarginine in young volunteers. <i>British Journal of Clinical Pharmacology</i> , 2016 , 82, 1477-1485	3.8	32
76	Serum-Sphingosine-1-Phosphate Concentrations Are Inversely Associated with Atherosclerotic Diseases in Humans. <i>PLoS ONE</i> , 2016 , 11, e0168302	3.7	31
75	Dietary Supplementation with Homoarginine Preserves Cardiac Function in a Murine Model of Post-Myocardial Infarction Heart Failure. <i>Circulation</i> , 2017 , 135, 400-402	16.7	30
74	Integrated genomics and metabolomics in nephrology. <i>Nephrology Dialysis Transplantation</i> , 2014 , 29, 1467-74	4.3	30
73	Ranolazine antagonizes catecholamine-induced dysfunction in isolated cardiomyocytes, but lacks long-term therapeutic effects in vivo in a mouse model of hypertrophic cardiomyopathy. <i>Cardiovascular Research</i> , 2016 , 109, 90-102	9.9	28
72	Dimethylarginines: their vascular and metabolic roles in Africans and Caucasians. <i>European Journal of Endocrinology</i> , 2010 , 162, 525-33	6.5	27
71	Incidence of all-cause and cardiovascular mortality predicted by symmetric dimethylarginine in the population-based study of health in pomerania. <i>PLoS ONE</i> , 2014 , 9, e96875	3.7	25
70	Plasma symmetric dimethylarginine reference limits from the Framingham offspring cohort. <i>Clinical Chemistry and Laboratory Medicine</i> , 2011 , 49, 1907-10	5.9	23

69	Loss of sphingosine 1-phosphate (S1P) in septic shock is predominantly caused by decreased levels of high-density lipoproteins (HDL). <i>Journal of Intensive Care</i> , 2019 , 7, 23	7	22
68	Cardiomyocyte dimethylarginine dimethylaminohydrolase-1 (DDAH1) plays an important role in attenuating ventricular hypertrophy and dysfunction. <i>Basic Research in Cardiology</i> , 2017 , 112, 55	11.8	21
67	Plasma Nitrate and Incidence of Cardiovascular Disease and All-Cause Mortality in the Community: The Framingham Offspring Study. <i>Journal of the American Heart Association</i> , 2017 , 6,	6	19
66	A Label-Free Continuous Fluorescence-Based Assay for Monitoring Ornithine Decarboxylase Activity with a Synthetic Putrescine Receptor. <i>SLAS Discovery</i> , 2017 , 22, 906-914	3.4	18
65	Reference intervals for serum sphingosine-1-phosphate in the population-based Study of Health in Pomerania. <i>Clinica Chimica Acta</i> , 2017 , 468, 25-31	6.2	17
64	Homoarginine supplementation improves blood glucose in diet-induced obese mice. <i>Amino Acids</i> , 2015 , 47, 1921-9	3.5	16
63	Low Homoarginine Levels in the Prognosis of Patients With Acute Chest Pain. <i>Journal of the American Heart Association</i> , 2016 , 5, e002565	6	16
62	Symmetrical (SDMA) and asymmetrical dimethylarginine (ADMA) in sepsis: high plasma levels as combined risk markers for sepsis survival. <i>Critical Care</i> , 2018 , 22, 216	10.8	16
61	FoxO1 regulates asymmetric dimethylarginine via downregulation of dimethylaminohydrolase 1 in human endothelial cells and subjects with atherosclerosis. <i>Atherosclerosis</i> , 2015 , 242, 230-5	3.1	15
60	Prasugrel as opposed to clopidogrel improves endothelial nitric oxide bioavailability and reduces platelet-leukocyte interaction in patients with unstable angina pectoris: A randomized controlled trial. <i>International Journal of Cardiology</i> , 2017 , 248, 7-13	3.2	15
59	ADMA, subclinical changes and atrial fibrillation in the general population. <i>International Journal of Cardiology</i> , 2016 , 203, 640-6	3.2	14
58	Asymmetric Dimethylarginine at Sea Level Is a Predictive Marker of Hypoxic Pulmonary Arterial Hypertension at High Altitude. <i>Frontiers in Physiology</i> , 2019 , 10, 651	4.6	14
57	Asymmetric and Symmetric Dimethylarginines are Markers of Delayed Cerebral Ischemia and Neurological Outcome in Patients with Subarachnoid Hemorrhage. <i>Neurocritical Care</i> , 2018 , 29, 84-93	3.3	14
56	Reference intervals of plasma homoarginine from the German Gutenberg Health Study. <i>Clinical Chemistry and Laboratory Medicine</i> , 2016 , 54, 1231-7	5.9	14
55	Arginine Derivatives in Cerebrovascular Diseases: Mechanisms and Clinical Implications. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	13
54	Nitric oxide synthesis capacity, ambulatory blood pressure and end organ damage in a black and white population: the SABPA study. <i>Amino Acids</i> , 2016 , 48, 801-810	3.5	13
53	The relationship of nitric oxide synthesis capacity, oxidative stress, and albumin-to-creatinine ratio in black and white men: the SABPA study. <i>Age</i> , 2016 , 38, 9		13
52	ADMA and arginine derivatives in relation to non-invasive vascular function in the general population. <i>Atherosclerosis</i> , 2016 , 244, 149-56	3.1	13

51	Dimethylarginine dimethylaminohydrolase-1 transgenic mice are not protected from ischemic stroke. <i>PLoS ONE</i> , 2009 , 4, e7337	3.7	13
50	Subclinical Cardiac Microdamage, Motor Severity, and Cognition in Parkinson's Disease. <i>Movement Disorders</i> , 2020 , 35, 1863-1868	7	12
49	L-Arginine and SDMA Serum Concentrations Are Associated with Subclinical Atherosclerosis in the Study of Health in Pomerania (SHIP). <i>PLoS ONE</i> , 2015 , 10, e0131293	3.7	11
48	Circulating Metabolites Differentiate Acute Ischemic Stroke from Stroke Mimics. <i>Annals of Neurology</i> , 2020 , 88, 736-746	9.4	10
47	Determinants of Serum- and Plasma Sphingosine-1-Phosphate Concentrations in a Healthy Study Group. <i>TH Open</i> , 2020 , 4, e12-e19	2.7	9
46	Personalised haemodynamic management targeting baseline cardiac index in high-risk patients undergoing major abdominal surgery: a randomised single-centre clinical trial. <i>British Journal of Anaesthesia</i> , 2020 , 125, 122-132	5.4	9
45	Evidence by GC-MS that lysine is an arginase-catalyzed metabolite of homoarginine in vitro and in vivo in humans. <i>Analytical Biochemistry</i> , 2019 , 577, 59-66	3.1	8
44	Cognitive performance of 20 healthy humans supplemented with L-homoarginine for 4 weeks. <i>Journal of Clinical Neuroscience</i> , 2018 , 50, 237-241	2.2	8
43	Differential effects of nebivolol vs. metoprolol on microvascular function in hypertensive humans. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2016 , 311, H118-24	5.2	8
42	Guanidino compound ratios are associated with stroke etiology, internal carotid artery stenosis and CHADS-VASc score in three cross-sectional studies. <i>Journal of the Neurological Sciences</i> , 2019 , 397, 156-161	3.2	8
41	Data on subgroup specific baseline characteristics and serum sphingosine-1-phosphate concentrations in the Study of Health in Pomerania. <i>Data in Brief</i> , 2017 , 12, 46-50	1.2	7
40	Muscle phenotype of AGAT- and GAMT-deficient mice after simvastatin exposure. <i>Amino Acids</i> , 2020 , 52, 73-85	3.5	7
39	Homoarginine predicts mortality in treatment-naive patients with pulmonary arterial hypertension. <i>International Journal of Cardiology</i> , 2016 , 217, 12-5	3.2	7
38	Myeloid-Derived Suppressor Cells Mediate Immunosuppression After Cardiopulmonary Bypass. <i>Critical Care Medicine</i> , 2019 , 47, e700-e709	1.4	7
37	Relationship between exercise intervention and NO pathway in patients with heart failure with preserved ejection fraction. <i>Biomarkers</i> , 2018 , 23, 540-550	2.6	6
36	Elevated serum SDMA and ADMA at hospital admission predict in-hospital mortality of COVID-19 patients. <i>Scientific Reports</i> , 2021 , 11, 9895	4.9	6
35	Asymmetric dimethylarginine, related arginine derivatives, and incident atrial fibrillation. <i>American Heart Journal</i> , 2016 , 176, 100-6	4.9	6
34	Measurement of homoarginine in human and mouse plasma by LC-MS/MS and ELISA: a comparison and a biological application. <i>Amino Acids</i> , 2015 , 47, 2015-22	3.5	5

33	Low-Circulating Homoarginine is Associated with Dilatation and Decreased Function of the Left Ventricle in the General Population. <i>Biomolecules</i> , 2018 , 8,	5.9	5
32	Association of lipid levels with motor and cognitive function and decline in advanced Parkinson's disease in the Mark-PD study. <i>Parkinsonism and Related Disorders</i> , 2021 , 85, 5-10	3.6	5
31	Analyses of sphingosine-1-phosphate in the context of transfusion: how much is in stored blood products and in patient blood?. <i>Transfusion</i> , 2019 , 59, 3071-3076	2.9	4
30	Association of proton pump inhibitor use with endothelial function and metabolites of the nitric oxide pathway: A cross-sectional study. <i>Pharmacotherapy</i> , 2021 , 41, 198-204	5.8	4
29	Asymmetric dimethylarginine and L-homoarginine prospectively relate to carotid wall thickness in a South African cohort. <i>Amino Acids</i> , 2020 , 52, 965-973	3.5	3
28	L-homoarginine is associated with decreased cardiovascular- and all-cause mortality. <i>European Journal of Clinical Investigation</i> , 2021 , 51, e13472	4.6	3
27	Association of Lower Plasma Homoarginine Concentrations with Greater Risk of All-Cause Mortality in the Community: The Framingham Offspring Study. <i>Journal of Clinical Medicine</i> , 2020 , 9,	5.1	3
26	Central systolic blood pressure relates inversely to nitric oxide synthesis in young black adults: the African-PREDICT study. <i>Journal of Human Hypertension</i> , 2021 , 35, 985-993	2.6	3
25	Sphingosine-1-Phosphate, Motor Severity, and Progression in Parkinson's Disease (MARK-PD). <i>Movement Disorders</i> , 2021 , 36, 2178-2182	7	3
24	Sphingosine-1-Phosphate Attenuates Lipopolysaccharide-Induced Pericyte Loss via Activation of Rho-A and MRTF-A. <i>Thrombosis and Haemostasis</i> , 2021 , 121, 341-350	7	3
23	Intrathecal and systemic alterations of L-arginine metabolism in patients after intracerebral hemorrhage. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2021 , 41, 1964-1977	7.3	3
22	Trimethyllysine, vascular risk factors and outcome in acute ischemic stroke (MARK-STROKE). <i>Amino Acids</i> , 2021 , 53, 555-561	3.5	3
21	Cross-Sectional Associations between Homoarginine, Intermediate Phenotypes, and Atrial Fibrillation in the Community-The Gutenberg Health Study. <i>Biomolecules</i> , 2018 , 8,	5.9	3
20	Serum neurofilament is associated with motor function, cognitive decline and subclinical cardiac damage in advanced Parkinson's disease (MARK-PD). <i>Parkinsonism and Related Disorders</i> , 2021 , 90, 44-48	3.6	3
19	Homoarginine- and Creatine-Dependent Gene Regulation in Murine Brains with L-Arginine:Glycine Amidinotransferase Deficiency. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	2
18	Association of Asymmetric Dimethylarginine and Diastolic Dysfunction in Patients with Hypertrophic Cardiomyopathy. <i>Biomolecules</i> , 2019 , 9,	5.9	2
17	A Thromboxane A Receptor-Driven COX-2-Dependent Feedback Loop That Affects Endothelial Homeostasis and Angiogenesis.. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2022 , ATVBHA121317380	9.4	2
16	Effect of ranolazine on plasma arginine derivatives and urinary isoprostane 8-iso-PGF in patients with myocardial infarction in the randomized RIMINI-Trial. <i>Scientific Reports</i> , 2019 , 9, 5708	4.9	1

15	Arginine metabolism and nitric oxide turnover in the ZSF1 animal model for heart failure with preserved ejection fraction. <i>Scientific Reports</i> , 2021 , 11, 20684	4.9	1
14	Increased Sphingosine-1-Phosphate Serum Concentrations in Subjects with Periodontitis: A Matter of Inflammation. <i>Journal of Inflammation Research</i> , 2021 , 14, 2883-2896	4.8	1
13	Low homoarginine/SDMA ratio is associated with poor short- and long-term outcome after stroke in two prospective studies. <i>Neurological Sciences</i> , 2020 , 41, 149-153	3.5	1
12	Associations of circulating dimethylarginines with the metabolic syndrome in the Framingham Offspring study. <i>PLoS ONE</i> , 2021 , 16, e0254577	3.7	1
11	Reply to: "Parkin Deficiency Appears Not to Be Associated with Cardiac Damage in Parkinson's Disease". <i>Movement Disorders</i> , 2021 , 36, 273-274	7	1
10	Dynamics of Vascular Protective and Immune Supportive Sphingosine-1-Phosphate During Cardiac Surgery. <i>Frontiers in Immunology</i> , 2021 , 12, 761475	8.4	0
9	Creatine, guanidinoacetate and homoarginine in statin-induced myopathy. <i>Amino Acids</i> , 2020 , 52, 1067-1069	3.5	0
8	Blood pressure and nitric oxide synthesis capacity in physically active and inactive groups: the SABPA study. <i>Journal of Human Hypertension</i> , 2021 , 35, 325-333	2.6	0
7	Arginine:Glycine Amidinotransferase Is Essential for Creatine Supply in Mice During Chronic Hypoxia. <i>Frontiers in Physiology</i> , 2021 , 12, 703069	4.6	0
6	Serum Sphingosine-1-Phosphate Levels Are Associated With Severity and Outcome in Patients With Cerebral Ischemia. <i>Stroke</i> , 2021 , 52, 3901-3907	6.7	0
5	Thromboxane A receptor activation via G-RhoA/C-ROCK-LIMK2-dependent signal transduction inhibits angiogenic sprouting of human endothelial cells.. <i>Biochemical Pharmacology</i> , 2022 , 115069	6	0
4	Reply to: "N-Terminal Pro-B-Type Natriuretic Peptide Levels in Parkinson's Disease". <i>Movement Disorders</i> , 2020 , 35, 1888	7	
3	Reference ranges for sphingosine-1-phosphate in neonates. <i>Journal of Perinatal Medicine</i> , 2021 , 49, 932-935	2.5	
2	Effect of intraoperative personalized goal-directed hemodynamic management on acute myocardial injury in high-risk patients having major abdominal surgery: a post-hoc secondary analysis of a randomized clinical trial.. <i>Journal of Clinical Monitoring and Computing</i> , 2022 , 1	2	
1	Sphingosine-1-phosphate and vascular disease in the general population.. <i>Atherosclerosis</i> , 2022 , 350, 73-81	3.1	