

Renke Maas

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109
papers

5,677
citations

41
h-index

73
g-index

116
ext. papers

6,265
ext. citations

4.8
avg. IF

5.18
L-index

#	Paper	IF	Citations
109	Asymmetric dimethyl-arginine (ADMA) response to inflammation in acute infections. <i>Nephrology Dialysis Transplantation</i> , 2007 , 22, 801-6	4.3	578
108	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
107	Plasma asymmetric dimethylarginine and incidence of cardiovascular disease and death in the community. <i>Circulation</i> , 2009 , 119, 1592-600	16.7	270
106	Urinary 8-iso-prostaglandin F2alpha as a risk marker in patients with coronary heart disease: a matched case-control study. <i>Circulation</i> , 2004 , 109, 843-8	16.7	230
105	Asymmetric dimethylarginine, L-arginine, and endothelial dysfunction in essential hypertension. <i>Journal of the American College of Cardiology</i> , 2005 , 46, 518-23	15.1	214
104	Asymmetric dimethylarginine, C-reactive protein, and carotid intima-media thickness in end-stage renal disease. <i>Journal of the American Society of Nephrology: JASN</i> , 2002 , 13, 490-496	12.7	187
103	Asymmetric dimethylarginine (ADMA) as a prospective marker of cardiovascular disease and mortality—an update on patient populations with a wide range of cardiovascular risk. <i>Pharmacological Research</i> , 2009 , 60, 481-7	10.2	168
102	Left ventricular hypertrophy, cardiac remodeling and asymmetric dimethylarginine (ADMA) in hemodialysis patients. <i>Kidney International</i> , 2002 , 62, 339-45	9.9	164
101	The pathophysiology of erectile dysfunction related to endothelial dysfunction and mediators of vascular function. <i>Vascular Medicine</i> , 2002 , 7, 213-25	3.3	160
100	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
99	Clinical pharmacokinetics of antioxidants and their impact on systemic oxidative stress. <i>Clinical Pharmacokinetics</i> , 2003 , 42, 437-59	6.2	116
98	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
97	Suppression of paroxysmal atrial tachyarrhythmias—results of the SOPAT trial. <i>European Heart Journal</i> , 2004 , 25, 1395-404	9.5	108
96	Symmetric dimethylarginine predicts all-cause mortality following ischemic stroke. <i>Atherosclerosis</i> , 2010 , 208, 518-23	3.1	102
95	Asymmetric and Symmetric Dimethylarginine as Risk Markers for Total Mortality and Cardiovascular Outcomes: A Systematic Review and Meta-Analysis of Prospective Studies. <i>PLoS ONE</i> , 2016 , 11, e0165811	3.7	96
94	Telmisartan improves insulin sensitivity in nondiabetic patients with essential hypertension. <i>Metabolism: Clinical and Experimental</i> , 2006 , 55, 1159-64	12.7	85
93	Analysis of the relationship between norepinephrine and asymmetric dimethyl arginine levels among patients with end-stage renal disease. <i>Journal of the American Society of Nephrology: JASN</i> , 2004 , 15, 435-41	12.7	82

92	Inflammation and asymmetric dimethylarginine for predicting death and cardiovascular events in ESRD patients. <i>Clinical Journal of the American Society of Nephrology: CJASN</i> , 2011 , 6, 1714-21	6.9	79
91	Asymmetric dimethylarginine determines the improvement of endothelium-dependent vasodilation by simvastatin: Effect of combination with oral L-arginine. <i>Journal of the American College of Cardiology</i> , 2007 , 49, 2274-82	15.1	75
90	Elevation of asymmetric dimethylarginine in patients with unstable angina and recurrent cardiovascular events. <i>European Heart Journal</i> , 2005 , 26, 1846-51	9.5	75
89	Asymmetric dimethylarginine, smoking, and risk of coronary heart disease in apparently healthy men: prospective analysis from the population-based Monitoring of Trends and Determinants in Cardiovascular Disease/Kooperative Gesundheitsforschung in der Region Augsburg study and experimental data. <i>Clinical Chemistry</i> , 2007 , 53, 693-701	5.5	71
88	Substrate-Dependent Inhibition of the Human Organic Cation Transporter OCT2: A Comparison of Metformin with Experimental Substrates. <i>PLoS ONE</i> , 2015 , 10, e0136451	3.7	70
87	Event-recorder monitoring in the diagnosis of atrial fibrillation in symptomatic patients: subanalysis of the SOPAT trial. <i>Journal of Cardiovascular Electrophysiology</i> , 2006 , 17, 1216-20	2.7	70
86	Association of plasma ADMA levels with MRI markers of vascular brain injury: Framingham offspring study. <i>Stroke</i> , 2009 , 40, 2959-64	6.7	66
85	N(1)-methylnicotinamide as an endogenous probe for drug interactions by renal cation transporters: studies on the metformin-trimethoprim interaction. <i>European Journal of Clinical Pharmacology</i> , 2015 , 71, 85-94	2.8	59
84	Molecular mechanism of renal tubular secretion of the antimalarial drug chloroquine. <i>Antimicrobial Agents and Chemotherapy</i> , 2011 , 55, 3091-8	5.9	57
83	A randomized and controlled pilot trial of beta-blockers for the treatment of recurrent syncope in patients with a positive or negative response to head-up tilt test. <i>PACE - Pacing and Clinical Electrophysiology</i> , 2002 , 25, 816-21	1.6	57
82	Reference intervals for plasma L-arginine and the L-arginine:asymmetric dimethylarginine ratio in the Framingham Offspring Cohort. <i>Journal of Nutrition</i> , 2011 , 141, 2186-90	4.1	56
81	Adverse drug events in older patients admitted as an emergency: the role of potentially inappropriate medication in elderly people (PRISCUS). <i>Deutsches Arzteblatt International</i> , 2013 , 110, 213-9	2.5	55
80	Telmisartan improves endothelial function in patients with essential hypertension. <i>Journal of Cardiovascular Pharmacology</i> , 2007 , 50, 367-71	3.1	54
79	Methylarginines and mortality in patients with end stage renal disease: a prospective cohort study. <i>Atherosclerosis</i> , 2009 , 207, 541-5	3.1	52
78	Diagnostic yield of external electrocardiographic loop recorders in patients with recurrent syncope and negative tilt table test. <i>PACE - Pacing and Clinical Electrophysiology</i> , 2003 , 26, 1837-40	1.6	52
77	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
76	Accuracy and completeness of drug information in Wikipedia: a comparison with standard textbooks of pharmacology. <i>PLoS ONE</i> , 2014 , 9, e106930	3.7	49
75	Dimethylarginine dimethylaminohydrolase overexpression ameliorates atherosclerosis in apolipoprotein E-deficient mice by lowering asymmetric dimethylarginine. <i>American Journal of Pathology</i> , 2010 , 176, 2559-70	5.8	48

74	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
73	The role of nitric oxide synthase inhibition by asymmetric dimethylarginine in the pathophysiology of preeclampsia. <i>Gynecologic and Obstetric Investigation</i> , 2010 , 69, 1-13	2.5	45
72	Pharmacotherapies and their influence on asymmetric dimethylarginine (ADMA). <i>Vascular Medicine</i> , 2005 , 10 Suppl 1, S49-57	3.3	45
71	Adverse drug events in patients admitted to an emergency department: an analysis of direct costs. <i>Pharmacoepidemiology and Drug Safety</i> , 2015 , 24, 176-86	2.6	44
70	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
69	Plasma concentrations of asymmetric dimethylarginine (ADMA) in Colombian women with pre-eclampsia. <i>JAMA - Journal of the American Medical Association</i> , 2004 , 291, 823-4	27.4	43
68	Asymmetrical dimethylarginine is increased in plasma and decreased in cerebrospinal fluid of patients with Alzheimer's disease. <i>Dementia and Geriatric Cognitive Disorders</i> , 2008 , 26, 58-64	2.6	41
67	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
66	Independent association of urinary F2-isoprostanes with survival in pulmonary arterial hypertension. <i>Chest</i> , 2012 , 142, 869-876	5.3	40
65	Simultaneous assessment of endothelial function, nitric oxide synthase activity, nitric oxide-mediated signaling, and oxidative stress in individuals with and without hypercholesterolemia. <i>Clinical Chemistry</i> , 2008 , 54, 292-300	5.5	40
64	Plasma concentrations of asymmetric dimethylarginine (ADMA) in metabolic syndrome. <i>International Journal of Cardiology</i> , 2007 , 122, 176-8	3.2	39
63	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
62	Interaction of the cardiovascular risk marker asymmetric dimethylarginine (ADMA) with the human cationic amino acid transporter 1 (CAT1). <i>Journal of Molecular and Cellular Cardiology</i> , 2012 , 53, 392-400	5.8	38
61	Acute effects of various fast-food meals on vascular function and cardiovascular disease risk markers: the Hamburg Burger Trial. <i>American Journal of Clinical Nutrition</i> , 2007 , 86, 334-40	7	37
60	Anticholinergic burden and cognitive function in a large German cohort of hospitalized geriatric patients. <i>PLoS ONE</i> , 2017 , 12, e0171353	3.7	36
59	Elevated plasma concentrations of the endogenous nitric oxide synthase inhibitor asymmetric dimethylarginine predict adverse events in patients undergoing noncardiac surgery. <i>Critical Care Medicine</i> , 2007 , 35, 1876-81	1.4	34
58	Transport of asymmetric dimethylarginine (ADMA) by cationic amino acid transporter 2 (CAT2), organic cation transporter 2 (OCT2) and multidrug and toxin extrusion protein 1 (MATE1). <i>Amino Acids</i> , 2013 , 45, 989-1002	3.5	33
57	Asymmetrical dimethylarginine (ADMA) and coronary endothelial function in patients with coronary artery disease and mild hypercholesterolemia. <i>Atherosclerosis</i> , 2007 , 191, 211-9	3.1	33

56	In vivo evidence that Agxt2 can regulate plasma levels of dimethylarginines in mice. <i>Biochemical and Biophysical Research Communications</i> , 2013 , 430, 84-9	3.4	32
55	Co-Prescription of QT-Interval Prolonging Drugs: An Analysis in a Large Cohort of Geriatric Patients. <i>PLoS ONE</i> , 2016 , 11, e0155649	3.7	32
54	Homoarginine and mortality in pre-dialysis chronic kidney disease (CKD) patients. <i>PLoS ONE</i> , 2013 , 8, e72694	3.7	30
53	Alanine-glyoxylate aminotransferase 2 (AGXT2) polymorphisms have considerable impact on methylarginine and β-aminoisobutyrate metabolism in healthy volunteers. <i>PLoS ONE</i> , 2014 , 9, e88544	3.7	29
52	A stable-isotope based technique for the determination of dimethylarginine dimethylaminohydrolase (DDAH) activity in mouse tissue. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2007 , 851, 220-8	3.2	27
51	P2Y12 polymorphisms and antiplatelet effects of aspirin in patients with coronary artery disease. <i>British Journal of Clinical Pharmacology</i> , 2008 , 65, 540-7	3.8	26
50	Polymorphisms in the promoter region of the dimethylarginine dimethylaminohydrolase 2 gene are associated with prevalence of hypertension. <i>Pharmacological Research</i> , 2009 , 60, 488-93	10.2	25
49	Elevation of asymmetrical dimethylarginine (ADMA) and coronary artery disease in men with erectile dysfunction. <i>European Urology</i> , 2005 , 48, 1004-11; discussion 1011-2	10.2	24
48	Plasma symmetric dimethylarginine reference limits from the Framingham offspring cohort. <i>Clinical Chemistry and Laboratory Medicine</i> , 2011 , 49, 1907-10	5.9	23
47	Comparative evaluation of different medication safety measures for the emergency department: physicians' usage and acceptance of training, poster, checklist and computerized decision support. <i>BMC Medical Informatics and Decision Making</i> , 2013 , 13, 79	3.6	21
46	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
45	The prognostic biomarker L-homoarginine is a substrate of the cationic amino acid transporters CAT1, CAT2A and CAT2B. <i>Scientific Reports</i> , 2017 , 7, 4767	4.9	19
44	Predicting recurrence of vasovagal syncope: a simple risk score for the clinical routine. <i>Journal of Cardiovascular Electrophysiology</i> , 2009 , 20, 416-21	2.7	19
43	A Novel Pathway for Metabolism of the Cardiovascular Risk Factor Homoarginine by alanine:glyoxylate aminotransferase 2. <i>Scientific Reports</i> , 2016 , 6, 35277	4.9	19
42	Correlation of biomarkers of endothelium dysfunction and matrix remodeling in patients with systemic sclerosis. <i>Journal of Rheumatology</i> , 2009 , 36, 984-8	4.1	18
41	Pharmacokinetics of oral doses of telmisartan and nisoldipine, given alone and in combination, in patients with essential hypertension. <i>Journal of Clinical Pharmacology</i> , 2007 , 47, 295-304	2.9	18
40	Impact of atorvastatin treatment on platelet-activating factor acetylhydrolase and 15-F(2trans)-isoprostane in hypercholesterolaemic patients. <i>British Journal of Clinical Pharmacology</i> , 2007 , 63, 672-9	3.8	18
39	Pharmacology and clinical pharmacology of methylarginines used as inhibitors of nitric oxide synthases. <i>Current Pharmaceutical Design</i> , 2014 , 20, 3530-47	3.3	17

38	Implementation of warnings from Dear Doctor Letters (Rote-Hand-Briefe): an analysis of medication data from a large cohort of elderly patients. <i>Deutsches Arzteblatt International</i> , 2014 , 111, 255-63	2.5	17
37	Role of alanine:glyoxylate aminotransferase 2 in metabolism of asymmetric dimethylarginine in the settings of asymmetric dimethylarginine overload and bilateral nephrectomy. <i>Nephrology Dialysis Transplantation</i> , 2014 , 29, 2035-42	4.3	15
36	Antihypertensive therapy: special focus on drug interactions. <i>Expert Opinion on Drug Safety</i> , 2003 , 2, 549-79	4.1	15
35	Diabetes-linked transcription factor HNF4 α regulates metabolism of endogenous methylarginines and β -aminoisobutyric acid by controlling expression of alanine-glyoxylate aminotransferase 2. <i>Scientific Reports</i> , 2016 , 6, 35503	4.9	14
34	Different indications, warnings and precautions, and contraindications for the same drug--an international comparison of prescribing information for commonly used psychiatric drugs. <i>Pharmacoepidemiology and Drug Safety</i> , 2013 , 22, 329-33	2.6	14
33	Potentially inappropriate medications in a large cohort of patients in geriatric units: association with clinical and functional characteristics. <i>European Journal of Clinical Pharmacology</i> , 2013 , 69, 975-84	2.8	13
32	A new approach to identify, classify and count drug-related events. <i>British Journal of Clinical Pharmacology</i> , 2013 , 76 Suppl 1, 56-68	3.8	13
31	L-Arginine enhances the triglyceride-lowering effect of simvastatin in patients with elevated plasma triglycerides. <i>Nutrition Research</i> , 2009 , 29, 291-7	4	13
30	Extensive characterization of the human DDAH1 transgenic mice. <i>Pharmacological Research</i> , 2009 , 60, 494-502	10.2	13
29	Application of the Pareto principle to identify and address drug-therapy safety issues. <i>European Journal of Clinical Pharmacology</i> , 2014 , 70, 727-36	2.8	12
28	ADMA and the role of the genes: lessons from genetically modified animals and human gene polymorphisms. <i>Pharmacological Research</i> , 2009 , 60, 475-80	10.2	12
27	Atherosclerosis and the Glu298Asp polymorphism of the eNOS gene in white patients with end-stage renal disease. <i>American Journal of Hypertension</i> , 2005 , 18, 1549-55	2.3	12
26	Measuring asymmetric dimethylarginine (ADMA) in CKD: a comparison between enzyme-linked immunosorbent assay and liquid chromatography-electrospray tandem mass spectrometry. <i>Journal of Nephrology</i> , 2012 , 25, 1016-22	4.8	12
25	Medication safety and knowledge-based functions: a stepwise approach against information overload. <i>British Journal of Clinical Pharmacology</i> , 2013 , 76 Suppl 1, 14-24	3.8	11
24	A myeloperoxidase promoter polymorphism is independently associated with mortality in patients with impaired left ventricular function. <i>Free Radical Biology and Medicine</i> , 2009 , 47, 1584-90	7.8	11
23	Trimethylamine-N-oxide (TMAO) determined by LC-MS/MS: distribution and correlates in the population-based PopGen cohort. <i>Clinical Chemistry and Laboratory Medicine</i> , 2020 , 58, 733-740	5.9	9
22	Potentially inappropriate medication in the elderly in Germany: an economic appraisal of the PRISCUS list. <i>BMC Health Services Research</i> , 2016 , 16, 109	2.9	9
21	Plasma asymmetric dimethylarginine, L-arginine and left ventricular structure and function in a community-based sample. <i>Atherosclerosis</i> , 2009 , 204, 282-7	3.1	9

20	An additive effect of endothelial nitric oxide synthase gene polymorphisms contributes to the severity of atherosclerosis in patients on dialysis. <i>American Journal of Hypertension</i> , 2007 , 20, 758-63	2.3	9
19	Building the technical infrastructure to support a study on drug safety in a general hospital. <i>Studies in Health Technology and Informatics</i> , 2011 , 169, 325-9	0.5	9
18	Dental procedures in patients treated with antiplatelet or oral anticoagulation therapy - an anonymous survey. <i>Gerodontology</i> , 2016 , 33, 447-452	2.8	8
17	Transport of L-Arginine Related Cardiovascular Risk Markers. <i>Journal of Clinical Medicine</i> , 2020 , 9,	5.1	7
16	The renal transport protein OATP4C1 mediates uptake of the uremic toxin asymmetric dimethylarginine (ADMA) and efflux of cardioprotective L-homoarginine. <i>PLoS ONE</i> , 2019 , 14, e0213747 ³	3.7	6
15	Development of a Standardized Rating Tool for Drug Alerts to Reduce Information Overload. <i>Methods of Information in Medicine</i> , 2016 , 55, 507-515	1.5	6
14	Effect of syncope-related traumatic injuries on the diagnostic evaluation and syncope recurrence of patients with syncope and apparently normal hearts. <i>American Journal of Cardiology</i> , 2005 , 95, 1101-3	3	6
13	The Randomized AMBORA Trial: Impact of Pharmacological/Pharmaceutical Care on Medication Safety and Patient-Reported Outcomes During Treatment With New Oral Anticancer Agents. <i>Journal of Clinical Oncology</i> , 2021 , 39, 1983-1994	2.2	6
12	Asymmetric dimethylarginine, related arginine derivatives, and incident atrial fibrillation. <i>American Heart Journal</i> , 2016 , 176, 100-6	4.9	6
11	Data Requirements for the Correct Identification of Medication Errors and Adverse Drug Events in Patients Presenting at an Emergency Department. <i>Methods of Information in Medicine</i> , 2017 , 56, 276-282 ¹	1.5	5
10	Effect of lowering asymmetric dimethylarginine (ADMA) on vascular pathology in atherosclerotic ApoE-deficient mice with reduced renal mass. <i>International Journal of Molecular Sciences</i> , 2014 , 15, 5522-33 ⁶	3.3	4
9	Kidney and liver are the main organs of expression of a key metabolic enzyme alanine:glyoxylate aminotransferase 2 in humans. <i>Atherosclerosis Supplements</i> , 2019 , 40, 106-112	1.7	4
8	Establishment of reference values for the lysine acetylation marker N-acetyllysine in small volume human plasma samples by a multi-target LC-MS/MS method. <i>Amino Acids</i> , 2019 , 51, 1259-1271	3.5	3
7	Asymmetric dimethylarginine predicts outcome and time of stay in hospital in patients attending an internal medicine emergency room. <i>Clinica Chimica Acta</i> , 2009 , 401, 20-4	6.2	3
6	Drugs linked to plasma homoarginine in chronic kidney disease patients-a cross-sectional analysis of the German Chronic Kidney Disease cohort. <i>Nephrology Dialysis Transplantation</i> , 2020 , 35, 1187-1195	4.3	3
5	The effect object paradigm--a means to support medication safety with clinical decision support. <i>Studies in Health Technology and Informatics</i> , 2014 , 205, 1065-9	0.5	3
4	Effects of treatment with SGLT-2 inhibitors on arginine-related cardiovascular and renal biomarkers.. <i>Cardiovascular Diabetology</i> , 2022 , 21, 4	8.7	2
3	Vectorial transport of the arginine derivatives asymmetric dimethylarginine (ADMA) and L-homoarginine by OATP4C1 and P-glycoprotein studied in double-transfected MDCK cells. <i>Amino Acids</i> , 2020 , 52, 975-985	3.5	1

2	Associations of circulating dimethylarginines with the metabolic syndrome in the Framingham Offspring study. <i>PLoS ONE</i> , 2021 , 16, e0254577	3·7	1
1	Screening of commonly prescribed drugs for effects on the CAT1-mediated transport of L-arginine and arginine derivatives.. <i>Amino Acids</i> , 2022 , 1	3·5	1