Tatiana Kuznetsova

List of Publications by Year
in descending order

135 papers	21,755 citations	94433 37 h-index	12597 132 g-index
137 all docs	137 docs citations	137 times ranked	24646 citing authors

#	Article	IF	Citations
1	Dissecting the Polygenic Basis of Primary Hypertension: Identification of Key Pathway-Specific Components. Frontiers in Cardiovascular Medicine, 2022, 9, 814502.	2.4	5
2	Temporal shift and predictive performance of machine learning for heart transplant outcomes. Journal of Heart and Lung Transplantation, 2022, 41, 928-936.	0.6	12
3	Evaluation of diastole by echocardiography for detecting early cardiac dysfunction: an outcome study. ESC Heart Failure, 2022, 9, 1775-1783.	3.1	12
4	Insulin Growth Factor Phenotypes in Heart Failure With Preserved Ejection Fraction, an INSPIRE Registry and CATHGEN Study. Journal of Cardiac Failure, 2022, 28, 935-946.	1.7	2
5	Association of left ventricular diastolic function with coronary artery calcium score: A Project Baseline Health Study. Journal of Cardiovascular Computed Tomography, 2022, 16, 498-508.	1.3	3
6	Applying machine learning to detect early stages of cardiac remodelling and dysfunction. European Heart Journal Cardiovascular Imaging, 2021, 22, 1208-1217.	1.2	15
7	Determinants of circulating angiotensin-converting enzyme 2 protein levels in the general population. European Journal of Internal Medicine, 2021, 84, 104-105.	2.2	7
8	Subclinical Heart Dysfunction in Relation to Metabolic and Inflammatory Markers: A Community-Based Study. American Journal of Hypertension, 2021, 34, 46-55.	2.0	6
9	Association of Subclinical Heart Maladaptation With the Pooled Cohort Equations to Prevent Heart Failure Risk Score for Incident Heart Failure. JAMA Cardiology, 2021, 6, 214.	6.1	2
10	Diastolic left ventricular function in relation to the retinal microvascular fractal dimension in a Flemish population. Hypertension Research, 2021, 44, 446-453.	2.7	0
11	Echocardiographic phenogrouping by machine learning for risk stratification in the general population. European Heart Journal Digital Health, 2021, 2, 390-400.	1.7	3
12	Proteomic profiling for detection of early‑stage heart failure in the community. ESC Heart Failure, 2021, 8, 2928-2939.	3.1	8
13	Peripheral Oxygen Extraction and Exercise Limitation in Asymptomatic Patients with Diabetes Mellitus. American Journal of Cardiology, 2021, 149, 132-139.	1.6	4
14	An inflammatory aging clock (iAge) based on deep learning tracks multimorbidity, immunosenescence, frailty and cardiovascular aging. Nature Aging, 2021, 1, 598-615.	11.6	202
15	Temporal changes in soluble angiotensin-converting enzyme 2 associated with metabolic health, body composition, and proteome dynamics during a weight loss diet intervention: a randomized trial with implications for the COVID-19 pandemic. American Journal of Clinical Nutrition, 2021, 114, 1655-1665.	4.7	3
16	Subclinical Heart Remodeling and Dysfunction in Relation to Peripheral Endothelial Dysfunction: a general population study. Microcirculation, 2021, 28, e12731.	1.8	1
17	Impact of age, sex and heart rate variability on the acute cardiovascular response to isometric handgrip exercise. Journal of Human Hypertension, 2021, 35, 55-64.	2.2	14
18	Workload-indexed blood pressure response is superior to peak systolic blood pressure in predicting all-cause mortality. European Journal of Preventive Cardiology, 2020, 27, 978-987.	1.8	39

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19	Electrocardiographic left ventricular hypertrophy in relation to peripheral and central blood pressure indices in a Nigerian population. Blood Pressure, 2020, 29, 39-46.	1.5	2
20	Value of Neutrophil to Lymphocyte Ratio and Its Trajectory in Patients Hospitalized With Acute Heart Failure and Preserved Ejection Fraction. American Journal of Cardiology, 2020, 125, 229-235.	1.6	29
21	Immune biomarkers link air pollution exposure to blood pressure in adolescents. Environmental Health, 2020, 19, 108.	4.0	23
22	Retinal and Renal Microvasculature in Relation to Central Hemodynamics in 11â€Yearâ€Old Children Born Preterm or At Term. Journal of the American Heart Association, 2020, 9, e014305.	3.7	5
23	Incremental value of diastolic stress test in identifying subclinical heart failure in patients with diabetes mellitus. European Heart Journal Cardiovascular Imaging, 2020, 21, 876-884.	1.2	12
24	Isolated left ventricular apical hypoplasia with myocardial non-compaction: a case report. European Heart Journal - Case Reports, 2020, 4, 1-6.	0.6	7
25	Subclinical left atrial dysfunction profiles for prediction of cardiac outcome in the general population. Journal of Hypertension, 2020, 38, 2465-2474.	0.5	22
26	Area of the pressure-strain loop during ejection as non-invasive index of left ventricular performance: a population study. Cardiovascular Ultrasound, 2019, 17, 15.	1.6	8
27	Improving risk stratification in heart failure with preserved ejection fraction by combining two validated risk scores. Open Heart, 2019, 6, e000961.	2.3	13
28	Opposing Age-Related Trends in Absolute and Relative Risk of Adverse Health Outcomes Associated With Out-of-Office Blood Pressure. Hypertension, 2019, 74, 1333-1342.	2.7	31
29	The 2013 ACC/AHA risk score and subclinical cardiac remodeling and dysfunction: Complementary in cardiovascular disease prediction. International Journal of Cardiology, 2019, 297, 67-74.	1.7	13
30	Central Hemodynamics in Relation to Circulating Desphosphoâ€Uncarboxylated Matrix Gla Protein: A Population Study. Journal of the American Heart Association, 2019, 8, e011960.	3.7	14
31	Hemodynamic Mechanisms. Updates in Hypertension and Cardiovascular Protection, 2019, , 59-70.	0.1	0
32	Echocardiographic evaluations of right ventriculoâ€"arterial coupling in experimental and clinical pulmonary hypertension. Physiological Reports, 2019, 7, e14322.	1.7	14
33	Incremental Value of Aortomitral Continuity Calcification for Risk Assessment after Transcatheter Aortic Valve Replacement. Radiology: Cardiothoracic Imaging, 2019, 1, e190067.	2.5	3
34	Diastolic left ventricular function in relation to circulating metabolic biomarkers in a population study. European Journal of Preventive Cardiology, 2019, 26, 22-32.	1.8	23
35	Temporal changes in left ventricular longitudinal strain in general population: Clinical correlates and impact on cardiac remodeling. Echocardiography, 2019, 36, 458-468.	0.9	16
36	Circulating Biomarkers Predicting Longitudinal Changes in Left Ventricular Structure and Function in a General Population. Journal of the American Heart Association, 2019, 8, e010430.	3.7	5

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37	Conventional and Ambulatory Blood Pressure as Predictors of Diastolic Left Ventricular Function in a Flemish Population. Journal of the American Heart Association, 2018, 7, .	3.7	5
38	Ambulatory blood pressure and long-term risk for atrial fibrillation. Heart, 2018, 104, 1263-1270.	2.9	21
39	Epidemiologic observations guiding clinical application of a urinary peptidomic marker of diastolic left ventricular dysfunction. Journal of the American Society of Hypertension, 2018, 12, 438-447.e4.	2.3	20
40	Relation of Insulin Resistance to Longitudinal Changes in Left Ventricular Structure and Function in a General Population. Journal of the American Heart Association, 2018, 7, .	3.7	35
41	The risk of nephrolithiasis is causally related to inactive matrix Gla protein, a marker of vitamin K status: a Mendelian randomization study in a Flemish population. Nephrology Dialysis Transplantation, 2018, 33, 514-522.	0.7	15
42	Glomerular function in relation to circulating adhesion molecules and inflammation markers in a general population. Nephrology Dialysis Transplantation, 2018, 33, 426-435.	0.7	27
43	Doppler indexes of left ventricular systolic and diastolic function in relation to haemodynamic load components in a general population. Journal of Hypertension, 2018, 36, 867-875.	0.5	4
44	Inactive matrix Gla protein is a novel circulating biomarker predicting retinal arteriolar narrowing in humans. Scientific Reports, 2018, 8, 15088.	3.3	17
45	Cytokines profile of reverse cardiac remodeling following transcatheter aortic valve replacement. International Journal of Cardiology, 2018, 270, 83-88.	1.7	12
46	The Pythagorean theorem reveals the inherent companion of cardiac ejection fraction. International Journal of Cardiology, 2018, 270, 237-243.	1.7	14
47	Sex Differences in Epidemiology of Cardiac and Vascular Disease. Advances in Experimental Medicine and Biology, 2018, 1065, 61-70.	1.6	20
48	Cardiophysiology Illustrated by Comparing Ventricular Volumes in Healthy Adult Males and Females. Advances in Experimental Medicine and Biology, 2018, 1065, 123-138.	1.6	11
49	Left ventricular volume analysis as a basic tool to describe cardiac function. American Journal of Physiology - Advances in Physiology Education, 2018, 42, 130-139.	1.6	30
50	Pilot studies demonstrate the potential benefits of antiinflammatory therapy in human lymphedema. JCI Insight, 2018, 3, .	5.0	89
51	Epidemiological and histological findings implicate matrix Gla protein in diastolic left ventricular dysfunction. PLoS ONE, 2018, 13, e0193967.	2.5	10
52	Sex-specific differences in cardiac maladaptation to hypertension and arterial stiffening. Kardiologia Polska, 2018, 76, 1303-1311.	0.6	7
53	Abstract 17154: Machine Learning Outperforms ACC/AHA CVD Risk Calculator in MESA Offering new opportunities for Short-Term Risk Prediction and Early Detection of the Vulnerable Patient. Circulation, 2018, 138, .	1.6	1
54	Does Extremely Low Birth Weight Predispose to Low-Renin Hypertension?. Hypertension, 2017, 69, 443-449.	2.7	27

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55	Left Ventricular Structure and Function in Relation to Environmental Exposure to Lead and Cadmium. Journal of the American Heart Association, 2017, 6, .	3.7	42
56	Risk for Incident Heart Failure: A Subjectâ€Level Metaâ€Analysis From the Heart â€œOMicsâ€•in AGEing (HOMAGE) Study. Journal of the American Heart Association, 2017, 6, .	3.7	41
57	Genetic loci associated with heart rate variability and their effects on cardiac disease risk. Nature Communications, 2017, 8, 15805.	12.8	95
58	Autoantibody profiling on a plasmonic nano-gold chip for the early detection of hypertensive heart disease. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 7089-7094.	7.1	30
59	Right Heart End-Systolic Remodeling Index Strongly Predicts Outcomes in Pulmonary Arterial Hypertension. Circulation: Cardiovascular Imaging, 2017, 10, .	2.6	72
60	Peripheral Blood Mitochondrial DNA and Myocardial Function. Advances in Experimental Medicine and Biology, 2017, 982, 347-358.	1.6	10
61	Longitudinal Changes in LV Structure and Diastolic Function in Relation to Arterial Properties in GeneralÂPopulation. JACC: Cardiovascular Imaging, 2017, 10, 1307-1316.	5.3	35
62	A Urinary Fragment of Mucin-1 Subunit Î± Is a Novel Biomarker Associated With Renal Dysfunction in the General Population. Kidney International Reports, 2017, 2, 811-820.	0.8	24
63	Post-processing reproducibility of the structural characteristics of the common carotid artery in a Flemish population. Artery Research, 2017, 19, 9.	0.6	3
64	Novel Urinary Peptidomic Classifier Predicts Incident Heart Failure. Journal of the American Heart Association, 2017, 6, .	3.7	30
65	Correlation Between Mitochondrial DNA Content Measured in Myocardium and Peripheral Blood of Patients with Non-Ischemic Heart Failure. Genetic Testing and Molecular Biomarkers, 2017, 21, 736-741.	0.7	9
66	Circulating Biomarkers to Identify Responders in Cardiac Cell therapy. Scientific Reports, 2017, 7, 4419.	3.3	18
67	Left ventricular function in relation to chronic residential air pollution in a general population. European Journal of Preventive Cardiology, 2017, 24, 1416-1428.	1.8	35
68	PEAR1 is not a major susceptibility gene for cardiovascular disease in a Flemish population. BMC Medical Genetics, 2017, 18, 45.	2.1	13
69	Challenging the complementarity of different metrics of left atrial function: insight from a cardiomyopathy-based study. European Heart Journal Cardiovascular Imaging, 2017, 18, 1153-1162.	1.2	16
70	Office and Home Blood Pressures as Determinants of Electrocardiographic Left Ventricular Hypertrophy Among Black Nigerians Compared With White Flemish. American Journal of Hypertension, 2017, 30, 1083-1092.	2.0	11
71	Peripheral blood mitochondrial DNA content in relation to circulating metabolites and inflammatory markers: A population study. PLoS ONE, 2017, 12, e0181036.	2.5	24
72	Correlates of Peripheral Blood Mitochondrial DNA Content in a General Population. American Journal of Epidemiology, 2016, 183, kwv175.	3.4	91

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73	Doppler indexes of left ventricular systolic and diastolic function in relation to the arterial stiffness in a general population. Journal of Hypertension, 2016, 34, 762-771.	0.5	28
74	Impact and pitfalls of scaling of left ventricular and atrial structure in population-based studies. Journal of Hypertension, 2016, 34, 1186-1194.	0.5	60
75	Diastolic Left Ventricular Function in Relation to Circulating Metabolic Biomarkers in a General Population. Journal of the American Heart Association, 2016, 5, e002681.	3.7	16
76	Vitamin K Dependent Protection of Renal Function in Multi-ethnic Population Studies. EBioMedicine, 2016, 4, 162-169.	6.1	44
77	Association of left ventricular structure and function with peripheral blood mitochondrial DNA content in a general population. International Journal of Cardiology, 2016, 214, 180-188.	1.7	10
78	Conventional and Ambulatory Blood Pressure as Predictors of Retinal Arteriolar Narrowing. Hypertension, 2016, 68, 511-520.	2.7	20
79	Additive Prognostic Value of Left Ventricular Systolic Dysfunction in a Population-Based Cohort. Circulation: Cardiovascular Imaging, 2016, 9, .	2.6	73
80	Retinal microvascular diameter, a hypertension-related trait, in ECG-gated vs. non-gated images analyzed by IVAN and SIVA. Hypertension Research, 2016, 39, 886-892.	2.7	15
81	Renal glomerular dysfunction in relation to retinal arteriolar narrowing and high pulse pressure in seniors. Hypertension Research, 2016, 39, 138-143.	2.7	14
82	Urinary Proteomics Pilot Study for Biomarker Discovery and Diagnosis in Heart Failure with Reduced Ejection Fraction. PLoS ONE, 2016, 11, e0157167.	2.5	42
83	Diastolic Left Ventricular Function in Relation to Urinary and Serum Collagen Biomarkers in a General Population. PLoS ONE, 2016, 11, e0167582.	2.5	22
84	Heart Failure and Hypertension. , 2016, , 437-454.		0
85	Coronary risk in relation to genetic variation in MEOX2 and TCF15 in a Flemish population. BMC Genetics, 2015, 16, 116.	2.7	12
86	Recommendations for Cardiac Chamber Quantification by Echocardiography in Adults: An Update from the American Society of Echocardiography and the European Association of Cardiovascular Imaging. European Heart Journal Cardiovascular Imaging, 2015, 16, 233-271.	1.2	5,352
87	Longitudinal Changes in Left Ventricular Diastolic Function in a General Population. Circulation: Cardiovascular Imaging, 2015, 8, .	2.6	44
88	Recommendations for Cardiac Chamber Quantification by Echocardiography in Adults: An Update from the American Society of Echocardiography and the European Association of Cardiovascular Imaging. Journal of the American Society of Echocardiography, 2015, 28, 1-39.e14.	2.8	10,755
89	Urinary Proteome and Systolic Blood Pressure as Predictors of 5-Year Cardiovascular and Cardiac Outcomes in a General Population. Hypertension, 2015, 66, 52-60.	2.7	33
90	Doppler Indexes of Left Ventricular Systolic and Diastolic Flow and Central Pulse Pressure in Relation to Renal Resistive Index. American Journal of Hypertension, 2015, 28, 535-545.	2.0	44

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91	Characteristics and Determinants of the Sublingual Microcirculation in Populations of Different Ethnicity. Hypertension, 2015, 65, 993-1001.	2.7	24
92	Biomarkers of cardiomyocyte injury and stress identify left atrial and left ventricular remodelling and dysfunction: A population-based study. International Journal of Cardiology, 2015, 185, 177-185.	1.7	31
93	Cytokines profile in hypertensive patients with left ventricular remodeling and dysfunction. Journal of the American Society of Hypertension, 2015, 9, 975-984.e3.	2.3	16
94	Gender Differences in Ventricular Remodeling andÂFunction in College Athletes, Insights from Lean Body Mass Scaling and Deformation Imaging. American Journal of Cardiology, 2015, 116, 1610-1616.	1.6	30
95	Inactive Matrix Gla Protein Is Causally Related to Adverse Health Outcomes. Hypertension, 2015, 65, 463-470.	2.7	84
96	Determinants and Prognostic Significance of the Renal Resistive Index. Pulse, 2015, 3, 172-178.	1.9	33
97	Association of digital vascular function with cardiovascular risk factors: a population study. BMJ Open, 2014, 4, e004399.	1.9	16
98	Left ventricular diastolic function associated with common genetic variation in ATP12Ain a general population. BMC Medical Genetics, 2014, 15, 121.	2.1	4
99	Heritability and other determinants of left ventricular diastolic function in the family-based population study. Journal of Hypertension, 2014, 32, 1854-1861.	0.5	4
100	Prognostic Value of Left Ventricular Diastolic Dysfunction in a General Population. Journal of the American Heart Association, 2014, 3, e000789.	3.7	95
101	Risk Stratification by Ambulatory Blood Pressure Monitoring Across JNC Classes of Conventional Blood Pressure. American Journal of Hypertension, 2014, 27, 956-965.	2.0	49
102	Age-Specific Differences Between Conventional and Ambulatory Daytime Blood Pressure Values. Hypertension, 2014, 64, 1073-1079.	2.7	78
103	Ambulatory Hypertension Subtypes and 24-Hour Systolic and Diastolic Blood Pressure as Distinct Outcome Predictors in 8341 Untreated People Recruited From 12 Populations. Circulation, 2014, 130, 466-474.	1.6	84
104	Left ventricular diastolic function in relation to the urinary proteome: A proof-of-concept study in a general population. International Journal of Cardiology, 2014, 176, 158-165.	1.7	44
105	The urinary proteome as correlate and predictor of renal function in a population study. Nephrology Dialysis Transplantation, 2014, 29, 2260-2268.	0.7	57
106	Heart â€˜omicsâ€™ in AGEing (HOMAGE): design, research objectives and characteristics of the common database. Journal of Biomedical Research, 2014, 28, 349.	1.6	24
107	cGMP-Dependent Protein Kinase 1 Polymorphisms Underlie Renal Sodium Handling Impairment. Hypertension, 2013, 62, 1027-1033.	2.7	10
108	Target Sequencing, Cell Experiments, and a Population Study Establish Endothelial Nitric Oxide Synthase ($eNOS$) Gene as Hypertension Susceptibility Gene. Hypertension, 2013, 62, 844-852.	2.7	48

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109	Left Ventricular Radial Function Associated With Genetic Variation in the cGMP-Dependent Protein Kinase. Hypertension, 2013, 62, 1034-1039.	2.7	5
110	Central Systolic Augmentation Indexes and Urinary Sodium in a White Population. American Journal of Hypertension, 2013, 26, 95-103.	2.0	17
111	Association of left ventricular diastolic function with systolic dyssynchrony: a population study. European Heart Journal Cardiovascular Imaging, 2013, 14, 471-479.	1.2	8
112	Genomewide Association Study Using a High-Density Single Nucleotide Polymorphism Array and Case-Control Design Identifies a Novel Essential Hypertension Susceptibility Locus in the Promoter Region of Endothelial NO Synthase. Hypertension, 2012, 59, 248-255.	2.7	144
113	Left Ventricular Structure and Function in Relation to Steroid Biosynthesis Genes in a White Population. American Journal of Hypertension, 2012, 25, 986-993.	2.0	3
114	Urinary proteome analysis in hypertensive patients with left ventricular diastolic dysfunction. European Heart Journal, 2012, 33, 2342-2350.	2.2	79
115	Tissue Doppler indexes of left ventricular systolic function in relation to the pulsatile and steady components of blood pressure in a general population. Journal of Hypertension, 2012, 30, 403-410.	0.5	7
116	Impact of Hypertension on Ventricular-Arterial Coupling and Regional Myocardial Work at Rest and during Isometric Exercise. Journal of the American Society of Echocardiography, 2012, 25, 882-890.	2.8	45
117	Prevalence of left ventricular diastolic dysfunction in European populations based on cross-validated diagnostic thresholds. Cardiovascular Ultrasound, 2012, 10, 10.	1.6	68
118	Assessment of peripheral vascular function with photoplethysmographic pulse amplitude. Artery Research, 2011, 5, 58.	0.6	6
119	Fatal and Nonfatal Outcomes, Incidence of Hypertension, and Blood Pressure Changes in Relation to Urinary Sodium Excretion. JAMA - Journal of the American Medical Association, 2011, 305, 1777.	7.4	483
120	Heritability of left ventricular structure and function in Caucasian families. European Heart Journal Cardiovascular Imaging, 2011, 12, 326-332.	1.2	18
121	Ambulatory Blood Pressure Monitoring in 9357 Subjects From 11 Populations Highlights Missed Opportunities for Cardiovascular Prevention in Women. Hypertension, 2011, 57, 397-405.	2.7	111
122	Circulating MicroRNA-208b and MicroRNA-499 Reflect Myocardial Damage in Cardiovascular Disease. Circulation: Cardiovascular Genetics, 2010, 3, 499-506.	5.1	683
123	Association Between Left Ventricular Mass and Telomere Length in a Population Study. American Journal of Epidemiology, 2010, 172, 440-450.	3.4	53
124	Systolic and diastolic left ventricular dysfunction: from risk factors to overt heart failure. Expert Review of Cardiovascular Therapy, 2010, 8, 251-258.	1.5	39
125	In-vivo assessment of radial and longitudinal strain in the carotid artery using speckle tracking. , 2010, , .		2
126	Prevalence of Left Ventricular Diastolic Dysfunction in a General Population. Circulation: Heart Failure, 2009, 2, 105-112.	3.9	291

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127	Left ventricular strain and strain rate in a general population. European Heart Journal, 2008, 29, 2014-2023.	2.2	188
128	Effects of genetic variation in adducin on left ventricular diastolic function as assessed by tissue Doppler imaging in a Flemish population. Journal of Hypertension, 2008, 26, 1229-1236.	0.5	16
129	Angiotensin-Converting Enzyme I/D and Î±-Adducin Gly460Trp Polymorphisms. Hypertension, 2007, 49, 1291-1297.	2.7	59
130	Prognostic superiority of daytime ambulatory over conventional blood pressure in four populations: a meta-analysis of 7030 individuals. Journal of Hypertension, 2007, 25, 1554-1564.	0.5	328
131	Sodium excretion as a modulator of genetic associations with cardiovascular phenotypes in the European Project on Genes in Hypertension. Journal of Hypertension, 2006, 24, 235-242.	0.5	23
132	Left Ventricular Mass in Relation to Genetic Variation in Angiotensin II Receptors, Renin System Genes, and Sodium Excretion. Circulation, 2004, 110, 2644-2650.	1.6	67
133	Maternal and Paternal Influences on Left Ventricular Mass of Offspring. Hypertension, 2003, 41, 69-74.	2.7	21
134	Blood pressure phenotypes in relation to the ??-adducin C1797T polymorphism in the European Project on Genes in Hypertension(EPOGH). Blood Pressure Monitoring, 2003, 8, 151-154.	0.8	23
135	Quality control of the blood pressure phenotype in the European Project on Genes in Hypertension. Blood Pressure Monitoring, 2002, 7, 215-224.	0.8	109