Nikolaos Stergiopulos

List of Publications by Year
in descending order

41	852	567281 15	526287 27
papers	citations	h-index	g-index

41	41	41	1300
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Fluidâ€“structure interaction simulation of aortic blood flow. Computers and Fluids, 2011, 43, 46-57.	2.5	156
2	Angiotensin II infusion into ApoE-/- mice: a model for aortic dissection rather than abdominal aortic aneurysm?. Cardiovascular Research, 2017, 113, 1230-1242.	3.8	78
3	Ascending Aortic Aneurysm in Angiotensin IIâ€“Infused Mice. Arteriosclerosis, Thrombosis, and Vascular Biology, 2016, 36, 673-681.	2.4	65
4	Dissecting abdominal aortic aneurysm in Ang II-infused mice: suprarenal branch ruptures and apparent luminal dilatation. Cardiovascular Research, 2015, 105, 213-222.	3.8	59
5	Flow driven robotic navigation of microengineered endovascular probes. Nature Communications, 2020, 11, 6356.	12.8	58
6	Incidence, severity, mortality, and confounding factors for dissecting AAA detection in angiotensin II-infused mice: a meta-analysis. Cardiovascular Research, 2015, 108, 159-170.	3.8	31
7	Evolution of aortic pressure during normal ageing: A model-based study. PLoS ONE, 2017, 12, e0182173.	2.5	25
8	Apelinâ€13 treatment enhances the stability of atherosclerotic plaques. European Journal of Clinical Investigation, 2018, 48, e12891.	3.4	24
9	Single breath-hold 3D measurement of left atrial volume using compressed sensing cardiovascular magnetic resonance and a non-model-based reconstruction approach. Journal of Cardiovascular Magnetic Resonance, 2015, 17, 47.	3.3	22
10	Performance Comparison of Ultrasound-Based Methods to Assess Aortic Diameter and Stiffness in Normal and Aneurysmal Mice. PLoS ONE, 2015, 10, e0129007.	2.5	22
11	From Patients to Platelets and Back Again: Pharmacological Approaches to Glycoprotein VI, a Thrilling Antithrombotic Target with Minor Bleeding Risks. Thrombosis and Haemostasis, 2019, 119, 1720-1739.	3.4	21
12	Diminazene enhances stability of atherosclerotic plaques in ApoE-deficient mice. Vascular Pharmacology, 2015, 74, 103-113.	2.1	20
13	Varicocele percutaneous embolization outcomes in a pediatric group: 7-year retrospective study. International Urology and Nephrology, 2016, 48, 1395-1399.	1.4	19
14	Initial Clinical Results of the eyeWatch: a New Adjustable Glaucoma Drainage Device Used in Refractory Glaucoma Surgery. Journal of Glaucoma, 2019, 28, 452-458.	1.6	19
15	A 1D model of the arterial circulation in mice. ALTEX: Alternatives To Animal Experimentation, 2016, 33, 13-28.	1.5	17
16	Alamandine abrogates neutrophil degranulation in atherosclerotic mice. European Journal of Clinical Investigation, 2017, 47, 117-128.	3.4	15
17	Age-related changes in vascular responses to angiotensin-(1-7) in female mice. JRAAS - Journal of the Renin-Angiotensin-Aldosterone System, 2018, 19, 147032031878933.	1.7	14
18	Acute effects of transcatheter aortic valve replacement on the ventricular-aortic interaction. American Journal of Physiology - Heart and Circulatory Physiology, 2020, 319, H1451-H1458.	3.2	14

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19	Experimental Drainage Device to Reduce Lymphoedema in a Rat Model. European Journal of Vascular and Endovascular Surgery, 2019, 57, 859-867.	1.5	13
20	Follicular regulatory helper T cells control the response of regulatory B cells to a high-cholesterol diet. Cardiovascular Research, 2021, 117, 743-755.	3.8	13
21	The effect of left ventricular contractility on arterial hemodynamics: A model-based investigation. PLoS ONE, 2021, 16, e0255561.	2.5	13
22	Improved Variational Denoising of Flow Fields with Application to Phase-Contrast MRI Data. IEEE Signal Processing Letters, 2015, 22, 762-766.	3.6	11
23	An optimized and validated 384-well plate assay to test platelet function in a high-throughput screening format. Platelets, 2019, 30, 563-571.	2.3	11
24	First in vivo application and evaluation of a novel method for non-invasive estimation of cardiac output. Medical Engineering and Physics, 2014, 36, 1352-1357.	1.7	10
25	On the importance of the nonuniform aortic stiffening in the hemodynamics of physiological aging. American Journal of Physiology - Heart and Circulatory Physiology, 2019, 317, H1125-H1133.	3.2	10
26	Comparison Between the eyeWatch Device and the Ahmed Valve in Refractory Glaucoma. Journal of Glaucoma, 2020, 29, 401-405.	1.6	9
27	Cardiotrophin-1 Deficiency Abrogates Atherosclerosis Progression. Scientific Reports, 2020, 10, 5791.	3.3	9
28	Apelin-13 Protects Corpus Cavernosum Against Fibrosis Induced by High-Fat Diet in an MMP-Dependent Mechanism. Journal of Sexual Medicine, 2021, 18, 875-888.	0.6	8
29	Treatment with sulphated galactan inhibits macrophage chemotaxis and reduces intraplaque macrophage content in atherosclerotic mice. Vascular Pharmacology, 2015, 71, 84-92.	2.1	7
30	Synchrotron-based visualization and segmentation of elastic lamellae in the mouse carotid artery during quasi-static pressure inflation. Journal of the Royal Society Interface, 2019, 16, 20190179.	3.4	7
31	Total arterial compliance, estimated by a novel method, is better related to left ventricular mass compared to aortic pulse wave velocity: The SAFAR study. Clinical and Experimental Hypertension, 2017, 39, 271-276.	1.3	6
32	MRI after successful eyeWatch^{TM} implantation. European Journal of Ophthalmology, 2022, 32, NP79-NP82.	1.3	6
33	Acute and Long-Term Effects of Aortic Compliance Decrease on Central Hemodynamics: A Modeling Analysis. Frontiers in Physiology, 2021, 12, 701154.	2.8	6
34	Estimating Left Ventricular Elastance from Aortic Flow Waveform, Ventricular Ejection Fraction, and Brachial Pressure: An In Silico Study. Annals of Biomedical Engineering, 2018, 46, 1722-1735.	2.5	5
35	In vivo application and validation of a novel noninvasive method to estimate the end-systolic elastance. American Journal of Physiology - Heart and Circulatory Physiology, 2021, 320, H1543-H1553.	3.2	5
36	Fluorescence-Based Binding Assay for Screening Ligands of Angiotensin Receptors. Methods in Molecular Biology, 2017, 1614, 165-174.	0.9	4

#	Article	IF	Citations
37	Standardization and Validation of Fluorescence-Based Quantitative Assay to Study Human Platelet Adhesion to Extracellular-Matrix in a 384-Well Plate. International Journal of Molecular Sciences, 2020, 21, 6539.	4.1	4
38	Early Morphofunctional Changes in AngII-Infused Mice Contribute to Regional Onset of Aortic Aneurysm and Dissection. Journal of Vascular Research, 2020, 57, 367-375.	1.4	4
39	Zinc complexation improves angiotensin II receptor type 1 blockade and in vivo antihypertensive activity of telmisartan. Future Medicinal Chemistry, 2021, 13, 13-23.	2.3	4
40	Emerging Pharmacological Treatments to Prevent Abdominal Aortic Aneurysm Growth and Rupture. Current Pharmaceutical Design, 2015, 21, 4000-6.	1.9	4
41	Low-Intensity Electrostimulation Enhances Neuroregeneration and Improves Erectile Function in a Rat Model of Cavernous Nerve Injury. Journal of Sexual Medicine, 2022, 19, 686-696.	0.6	4