Alexey Kamenskiy

List of Publications by Citations

28 papers	465 citations	13 h-index	21 g-index
29 ext. papers	603 ext. citations	6.1 avg, IF	4.11 L-index

#	Paper	IF	Citations
28	Comparison of femoropopliteal artery stents under axial and radial compression, axial tension, bending, and torsion deformations. *Journal of the Mechanical Behavior of Biomedical Materials*, **2017**, 75, 160-168	4.1	51
27	Nitinol Stents in the Femoropopliteal Artery: A Mechanical Perspective on Material, Design, and Performance. *Annals of Biomedical Engineering*, **2018**, 46, 684-704	4.7	46
26	Limb flexion-induced axial compression and bending in human femoropopliteal artery segments. *Journal of Vascular Surgery*, **2018**, 67, 607-613	3.5	40
25	Prevalence of Calcification in Human Femoropopliteal Arteries and its Association with Demographics, Risk Factors, and Arterial Stiffness. *Arteriosclerosis, Thrombosis, and Vascular Biology* , **2018**, 38, e48-e57	9.4	38
24	In situ longitudinal pre-stretch in the human femoropopliteal artery. *Acta Biomaterialia*, **2016**, 32, 231-237	10.8	30
23	Mechanically robust cryogels with injectability and bioprinting supportability for adipose tissue engineering. *Acta Biomaterialia*, **2018**, 74, 131-142	10.8	30
22	Constitutive description of human femoropopliteal artery aging. *Biomechanics and Modeling in Mechanobiology*, **2017**, 16, 681-692	3.8	26
21	Stent Design Affects Femoropopliteal Artery Deformation. *Annals of Surgery*, **2019**, 270, 180-187	7.8	25
20	Patient demographics and cardiovascular risk factors differentially influence geometric remodeling of the aorta compared with the peripheral arteries. *Surgery*, **2015**, 158, 1617-1627	3.6	22
19	Mechanical and structural changes in human thoracic aortas with age. *Acta Biomaterialia*, **2020**, 103, 172-188	10.8	22
18	Limb flexion-induced twist and associated intramural stresses in the human femoropopliteal artery. *Journal of the Royal Society Interface*, **2017**, 14,	4.1	21
17	Effect of aging on mechanical stresses, deformations, and hemodynamics in human femoropopliteal artery due to limb flexion. *Biomechanics and Modeling in Mechanobiology*, **2018**, 17, 181-189	3.8	20
16	Constitutive modeling of human femoropopliteal artery biaxial stiffening due to aging and diabetes. *Acta Biomaterialia*, **2017**, 64, 50-58	10.8	18
15	Mechanical, structural, and physiologic differences in human elastic and muscular arteries of different ages: Comparison of the descending thoracic aorta to the superficial femoral artery. *Acta Biomaterialia*, **2021**, 119, 268-283	10.8	13
14	Mechanical damage characterization in human femoropopliteal arteries of different ages. *Acta Biomaterialia*, **2019**, 90, 225-240	10.8	10
13	Mechanical stresses associated with flattening of human femoropopliteal artery specimens during planar biaxial testing and their effects on the calculated physiologic stress-stretch state. *Biomechanics and Modeling in Mechanobiology*, **2019**, 18, 1591-1605	3.8	9
12	Constitutive modeling using structural information on collagen fiber direction and dispersion in human superficial femoral artery specimens of different ages. *Acta Biomaterialia*, **2021**, 121, 461-474	10.8	8

List of Publications

11	The choice of a constitutive formulation for modeling limb flexion-induced deformations and stresses in the human femoropopliteal arteries of different ages. *Biomechanics and Modeling in Mechanobiology*, **2017**, 16, 775-785	3.8	7
10	In Vivo Morphological Changes of the Femoropopliteal Arteries due to Knee Flexion After Endovascular Treatment of Popliteal Aneurysm. *Journal of Endovascular Therapy*, **2019**, 26, 496-504	2.5	6
9	Endovascular Repair of Blunt Thoracic Aortic Trauma is Associated With Increased Left Ventricular Mass, Hypertension, and Off-target Aortic Remodeling. *Annals of Surgery*, **2021**, 274, 1089-1098	7.8	6
8	Cross-sectional pinching in human femoropopliteal arteries due to limb flexion, and stent design optimization for maximum cross-sectional opening and minimum intramural stresses. *Journal of the Royal Society Interface*, **2018**, 15,	4.1	5
7	Comparison of morphometric, structural, mechanical, and physiologic characteristics of human superficial femoral and popliteal arteries. *Acta Biomaterialia*, **2021**, 121, 431-443	10.8	4
6	Effects of longitudinal pre-stretch on the mechanics of human aorta before and after thoracic endovascular aortic repair (TEVAR) in trauma patients. *Biomechanics and Modeling in Mechanobiology*, **2020**, 19, 401-413	3.8	3
5	Calcification prevalence in different vascular zones and its association with demographics, risk factors, and morphometry. *American Journal of Physiology - Heart and Circulatory Physiology*, **2021**, 320, H2313-H2323	5.2	2
4	Invited commentary. *Journal of Vascular Surgery*, **2018**, 67, 897-898	3.5	1
3	Mechanically tuned vascular graft demonstrates rapid endothelialization and integration into the porcine iliac artery wall. *Acta Biomaterialia*, **2021**, 125, 126-137	10.8	1
2	Safe balloon inflation parameters for resuscitative endovascular balloon occlusion of the aorta. *Journal of Trauma and Acute Care Surgery*, **2021**, 91, 302-309	3.3	1
1	Biomechanics of the Main Artery in the Lower Limb. *Studies in Mechanobiology, Tissue Engineering and Biomaterials*, **2022**, 157-179	0.5	