

Alexey Kamenskiy

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Biomechanics of the Main Artery in the Lower Limb. <i>Studies in Mechanobiology, Tissue Engineering and Biomaterials</i> , 2022 , 157-179	0.5	
27	Endovascular Repair of Blunt Thoracic Aortic Trauma is Associated With Increased Left Ventricular Mass, Hypertension, and Off-target Aortic Remodeling. <i>Annals of Surgery</i> , 2021 , 274, 1089-1098	7.8	6
26	Mechanically tuned vascular graft demonstrates rapid endothelialization and integration into the porcine iliac artery wall. <i>Acta Biomaterialia</i> , 2021 , 125, 126-137	10.8	1
25	Safe balloon inflation parameters for resuscitative endovascular balloon occlusion of the aorta. <i>Journal of Trauma and Acute Care Surgery</i> , 2021 , 91, 302-309	3.3	1
24	Calcification prevalence in different vascular zones and its association with demographics, risk factors, and morphometry. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2021 , 320, H2313-H2323	5.2	2
23	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. <i>Acta Biomaterialia</i> , 2021 , 119, 268-283	10.8	13
22	Comparison of morphometric, structural, mechanical, and physiologic characteristics of human superficial femoral and popliteal arteries. <i>Acta Biomaterialia</i> , 2021 , 121, 431-443	10.8	4
21	Constitutive modeling using structural information on collagen fiber direction and dispersion in human superficial femoral artery specimens of different ages. <i>Acta Biomaterialia</i> , 2021 , 121, 461-474	10.8	8
20	Mechanical and structural changes in human thoracic aortas with age. <i>Acta Biomaterialia</i> , 2020 , 103, 172-188	10.8	22
19	Effects of longitudinal pre-stretch on the mechanics of human aorta before and after thoracic endovascular aortic repair (TEVAR) in trauma patients. <i>Biomechanics and Modeling in Mechanobiology</i> , 2020 , 19, 401-413	3.8	3
18	In Vivo Morphological Changes of the Femoropopliteal Arteries due to Knee Flexion After Endovascular Treatment of Popliteal Aneurysm. <i>Journal of Endovascular Therapy</i> , 2019 , 26, 496-504	2.5	6
17	Mechanical stresses associated with flattening of human femoropopliteal artery specimens during planar biaxial testing and their effects on the calculated physiologic stress-stretch state. <i>Biomechanics and Modeling in Mechanobiology</i> , 2019 , 18, 1591-1605	3.8	9
16	Mechanical damage characterization in human femoropopliteal arteries of different ages. <i>Acta Biomaterialia</i> , 2019 , 90, 225-240	10.8	10
15	Stent Design Affects Femoropopliteal Artery Deformation. <i>Annals of Surgery</i> , 2019 , 270, 180-187	7.8	25
14	Invited commentary. <i>Journal of Vascular Surgery</i> , 2018 , 67, 897-898	3.5	1
13	Nitinol Stents in the Femoropopliteal Artery: A Mechanical Perspective on Material, Design, and Performance. <i>Annals of Biomedical Engineering</i> , 2018 , 46, 684-704	4.7	46
12	Prevalence of Calcification in Human Femoropopliteal Arteries and its Association with Demographics, Risk Factors, and Arterial Stiffness. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2018 , 38, e48-e57	9.4	38

11	Limb flexion-induced axial compression and bending in human femoropopliteal artery segments. <i>Journal of Vascular Surgery</i> , 2018 , 67, 607-613	3.5	40
10	Cross-sectional pinching in human femoropopliteal arteries due to limb flexion, and stent design optimization for maximum cross-sectional opening and minimum intramural stresses. <i>Journal of the Royal Society Interface</i> , 2018 , 15,	4.1	5
9	Effect of aging on mechanical stresses, deformations, and hemodynamics in human femoropopliteal artery due to limb flexion. <i>Biomechanics and Modeling in Mechanobiology</i> , 2018 , 17, 181-189	3.8	20
8	Mechanically robust cryogels with injectability and bioprinting supportability for adipose tissue engineering. <i>Acta Biomaterialia</i> , 2018 , 74, 131-142	10.8	30
7	The choice of a constitutive formulation for modeling limb flexion-induced deformations and stresses in the human femoropopliteal arteries of different ages. <i>Biomechanics and Modeling in Mechanobiology</i> , 2017 , 16, 775-785	3.8	7
6	Limb flexion-induced twist and associated intramural stresses in the human femoropopliteal artery. <i>Journal of the Royal Society Interface</i> , 2017 , 14,	4.1	21
5	Constitutive modeling of human femoropopliteal artery biaxial stiffening due to aging and diabetes. <i>Acta Biomaterialia</i> , 2017 , 64, 50-58	10.8	18
4	Comparison of femoropopliteal artery stents under axial and radial compression, axial tension, bending, and torsion deformations. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2017 , 75, 160-168	4.1	51
3	Constitutive description of human femoropopliteal artery aging. <i>Biomechanics and Modeling in Mechanobiology</i> , 2017 , 16, 681-692	3.8	26
2	In situ longitudinal pre-stretch in the human femoropopliteal artery. <i>Acta Biomaterialia</i> , 2016 , 32, 231-237	10.8	30
1	Patient demographics and cardiovascular risk factors differentially influence geometric remodeling of the aorta compared with the peripheral arteries. <i>Surgery</i> , 2015 , 158, 1617-1627	3.6	22