

Dimitrios P Sokolis

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5650632/publications.pdf>

Version: 2024-02-01

64
papers

1,609
citations

257101

24
h-index

315357

38
g-index

64
all docs

64
docs citations

64
times ranked

1179
citing authors

#	ARTICLE	IF	CITATIONS
1	Regional and directional variations in the layer-specific resistance to tear propagation in ascending thoracic aortic aneurysms. <i>Journal of Biomechanics</i> , 2022, 138, 111133.	0.9	5
2	Variation of Passive Biomechanical Properties of the Small Intestine along Its Length: Microstructure-Based Characterization. <i>Bioengineering</i> , 2021, 8, 32.	1.6	5
3	Layer-Specific Residual Deformations and Their Variation Along the Human Aorta. <i>Journal of Biomechanical Engineering</i> , 2021, 143, .	0.6	11
4	Improved Repopulation Efficacy of Decellularized Small Diameter Vascular Grafts Utilizing the Cord Blood Platelet Lysate. <i>Bioengineering</i> , 2021, 8, 118.	1.6	1
5	Failure properties of ascending thoracic aortic aneurysms with dysfunctional tricuspid aortic valves. <i>Interactive Cardiovascular and Thoracic Surgery</i> , 2021, 33, 949-958.	0.5	0
6	Alterations with age in the biomechanical behavior of human ureteral wall: Microstructure-based modeling. <i>Journal of Biomechanics</i> , 2020, 109, 109940.	0.9	3
7	Time-course of axial residual strain remodeling and layer-specific thickening during aging along the human aorta. <i>Journal of Biomechanics</i> , 2020, 112, 110065.	0.9	7
8	Insights into Biomechanical and Proteomic Characteristics of Small Diameter Vascular Grafts Utilizing the Human Umbilical Artery. <i>Biomedicines</i> , 2020, 8, 280.	1.4	13
9	Ascending aorta mechanics in bicuspid aortopathy: controversy or fact?. <i>Asian Cardiovascular and Thoracic Annals</i> , 2020, 29, 021849232092873.	0.2	5
10	Variation of Axial Residual Strains Along the Course and Circumference of Human Aorta Considering Age and Gender. <i>Journal of Biomechanical Engineering</i> , 2020, 142, .	0.6	9
11	Regional distribution of layer-specific circumferential residual deformations and opening angles in the porcine aorta. <i>Journal of Biomechanics</i> , 2019, 96, 109335.	0.9	21
12	In vitro study of age-related changes in human ureteral failure properties according to region, direction, and layer. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2019, 233, 570-583.	1.0	6
13	Regional distribution of delamination strength in ascending thoracic aortic aneurysms. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2019, 98, 58-70.	1.5	31
14	Regional and age-dependent residual strains, curvature, and dimensions of the human ureter. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2018, 232, 149-162.	1.0	12
15	Effect of Aneurysm and Bicuspid Aortic Valve on Layer-Specific Ascending Aorta Mechanics. <i>Annals of Thoracic Surgery</i> , 2018, 106, 1692-1701.	0.7	37
16	Identification of regional/layer differences in failure properties and thickness as important biomechanical factors responsible for the initiation of aortic dissections. <i>Journal of Biomechanics</i> , 2018, 80, 102-110.	0.9	24
17	Regional distribution of circumferential residual strains in the human aorta according to age and gender. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2017, 67, 87-100.	1.5	40
18	Experimental study and biomechanical characterization for the passive small intestine: Identification of regional differences. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2017, 74, 93-105.	1.5	17

#	ARTICLE	IF	CITATIONS
19	Effect of ovariectomy and Sideritis euboica extract administration on large artery mechanics, morphology, and structure in middle-aged rats. <i>Biorheology</i> , 2017, 54, 1-23.	1.2	1
20	Age- and region-related changes in the biomechanical properties and composition of the human ureter. <i>Journal of Biomechanics</i> , 2017, 51, 57-64.	0.9	21
21	Large artery biomechanical, geometrical, and structural remodeling elicited by long-term propranolol administration in an animal model. <i>Biorheology</i> , 2016, 53, 151-170.	1.2	2
22	Layer-dependent wall properties of abdominal aortic aneurysms: Experimental study and material characterization. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2015, 49, 141-161.	1.5	41
23	Effects of aneurysm on the directional, regional, and layer distribution of residual strains in ascending thoracic aorta. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2015, 46, 229-243.	1.5	42
24	Layer- and region-specific material characterization of ascending thoracic aortic aneurysms by microstructure-based models. <i>Journal of Biomechanics</i> , 2015, 48, 3757-3765.	0.9	42
25	Effects of Aneurysm on the Mechanical Properties and Histologic Structure of Aortic Sinuses. <i>Annals of Thoracic Surgery</i> , 2014, 98, 72-79.	0.7	12
26	Impaired mechanics and matrix metalloproteinases/inhibitors expression in female ascending thoracic aortic aneurysms. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2014, 34, 154-164.	1.5	51
27	Identification and characterisation of regional variations in the material properties of ureter according to microstructure. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2014, 17, 1653-1670.	0.9	13
28	Biomechanical properties and histological structure of sinus of Valsalva aneurysms in relation to age and region. <i>Journal of Biomechanics</i> , 2013, 46, 931-940.	0.9	12
29	Experimental investigation and constitutive modeling of the 3D histomechanical properties of vein tissue. <i>Biomechanics and Modeling in Mechanobiology</i> , 2013, 12, 431-451.	1.4	35
30	Time-course of venous wall biomechanical adaptation in pressure and flow-overload: Assessment by a microstructure-based material model. <i>Journal of Biomechanics</i> , 2013, 46, 2451-2462.	0.9	10
31	Structurally-motivated characterization of the passive pseudo-elastic response of esophagus and its layers. <i>Computers in Biology and Medicine</i> , 2013, 43, 1273-1285.	3.9	23
32	Microstructure-based constitutive modeling for the large intestine validated by histological observations. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2013, 21, 149-166.	1.5	45
33	Time course of flow-induced adaptation of carotid artery biomechanical properties, structure and zero-stress state in the arteriovenous shunt. <i>Biorheology</i> , 2012, 49, 65-82.	1.2	7
34	Surgical Thoracic Sympathectomy Induces Structural and Biomechanical Remodeling of the Thoracic Aorta in a Porcine Model. <i>Journal of Surgical Research</i> , 2012, 172, 68-76.	0.8	17
35	Effect of layer heterogeneity on the biomechanical properties of ascending thoracic aortic aneurysms. <i>Medical and Biological Engineering and Computing</i> , 2012, 50, 1227-1237.	1.6	60
36	Biomechanical response of ascending thoracic aortic aneurysms: association with structural remodelling. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2012, 15, 231-248.	0.9	64

#	ARTICLE	IF	CITATIONS
37	Multiaxial mechanical behaviour of the passive ureteral wall: experimental study and mathematical characterisation. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2012, 15, 1145-1156.	0.9	25
38	Biomechanical behavior and histological organization of the three-layered passive esophagus as a function of topography. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2012, 226, 477-490.	1.0	31
39	Rupture properties of aneurysmal aortic roots. , 2011, , .		0
40	Large artery biomechanical adaptation induced by flow-overload. , 2011, , .		0
41	Differential histomechanical response of carotid artery in relation to species and region: mathematical description accounting for elastin and collagen anisotropy. <i>Medical and Biological Engineering and Computing</i> , 2011, 49, 867-879.	1.6	29
42	Biomechanical testing and material characterization for the rat large intestine: regional dependence of material parameters. <i>Physiological Measurement</i> , 2011, 32, 1969-1982.	1.2	25
43	Biomechanical, morphological and zero-stress state characterization of jugular vein remodeling in arteriovenous fistulas for hemodialysis. <i>Biorheology</i> , 2010, 47, 297-319.	1.2	15
44	A passive strain-energy function for elastic and muscular arteries: correlation of material parameters with histological data. <i>Medical and Biological Engineering and Computing</i> , 2010, 48, 507-518.	1.6	34
45	Local Hemodynamics and Intimal Hyperplasia at the Venous Side of a Porcine Arteriovenous Shunt. <i>IEEE Transactions on Information Technology in Biomedicine</i> , 2010, 14, 681-690.	3.6	30
46	Evaluation of Nâ€œTerminal Prohormone Bâ€œType Natriuretic Peptide in Patients With Acute Coronary Syndromes and Percutaneous Coronary Intervention. <i>Journal of Clinical Hypertension</i> , 2010, 12, 861-868.	1.0	0
47	Strain-energy function and three-dimensional stress distribution in esophageal biomechanics. <i>Journal of Biomechanics</i> , 2010, 43, 2753-2764.	0.9	36
48	The Effects of Hypothyroidism on the Mechanical Properties and Histomorphological Structure of the Thoracic Aorta. <i>Angiology</i> , 2010, 61, 259-268.	0.8	4
49	Ascending thoracic aortic aneurysms are associated with compositional remodeling and vessel stiffening but not weakening in age-matched subjects. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2009, 137, 101-109.	0.4	140
50	Regional and directional variations in the mechanical properties of ascending thoracic aortic aneurysms. <i>Medical Engineering and Physics</i> , 2009, 31, 1-9.	0.8	129
51	Biomechanical and histological characteristics of passive esophagus: Experimental investigation and comparative constitutive modeling. <i>Journal of Biomechanics</i> , 2009, 42, 2654-2663.	0.9	56
52	Passive mechanical properties and constitutive modeling of blood vessels in relation to microstructure. <i>Medical and Biological Engineering and Computing</i> , 2008, 46, 1187-1199.	1.6	30
53	Local hemodynamics and intimal hyperplasia at the venous side of porcine carotid artery - Jugular vein shunt. , 2008, , .		0
54	Hypothyroidism and the aorta. evidence of increased oxidative DNA damage to the aorta of hypothyroid rats. <i>In Vivo</i> , 2008, 22, 603-8.	0.6	8

#	ARTICLE	IF	CITATIONS
55	The Mechanical Performance and Histomorphological Structure of the Descending Aorta in Hyperthyroidism. <i>Angiology</i> , 2007, 58, 343-352.	0.8	10
56	Hyperthyroidism is associated with increased aortic oxidative DNA damage in a rat model. <i>In Vivo</i> , 2007, 21, 1021-6.	0.6	5
57	In vivo antiatherogenic properties of olive oil and its constituent lipid classes in hyperlipidemic rabbits. <i>Nutrition, Metabolism and Cardiovascular Diseases</i> , 2006, 16, 174-185.	1.1	83
58	A structural basis for the aortic stress-strain relation in uniaxial tension. <i>Journal of Biomechanics</i> , 2006, 39, 1651-1662.	0.9	93
59	Post-Vagotomy Mechanical Characteristics and Structure of the Thoracic Aortic Wall. <i>Annals of Biomedical Engineering</i> , 2005, 33, 1504-1516.	1.3	12
60	The influence of indomethacin co-administration on ofloxacin levels in plasma and cerebrospinal fluid in rats. <i>International Journal of Antimicrobial Agents</i> , 2004, 23, 371-376.	1.1	2
61	Assessment of the aortic stress-strain relation in uniaxial tension. <i>Journal of Biomechanics</i> , 2002, 35, 1213-1223.	0.9	46
62	Failure Modes of Foams: The Influence of Orientation of Voids. <i>International Journal of Damage Mechanics</i> , 2001, 10, 3-42.	2.4	1
63	Splitting the elastic strain energy in thin plates of a transversely isotropic material. <i>International Journal of Solids and Structures</i> , 2000, 37, 5061-5078.	1.3	1
64	Spectral Decomposition of the Compliance Tensor for Anisotropic Plates. <i>Journal of Elasticity</i> , 1998, 51, 89-103.	0.9	19