

Susan M Lessner

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/6419640/susan-m-lessner-publications-by-year.pdf>

Version: 2024-04-27

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

50
papers

1,397
citations

18
h-index

37
g-index

58
ext. papers

1,580
ext. citations

4.7
avg, IF

4.09
L-index

#	Paper	IF	Citations
50	Age and sex dependency of thoracic aortopathy in a mouse model of Marfan syndrome. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2022 , 322, H44-H56	5.2	1
49	Systemic delivery of targeted nanotherapeutic reverses angiotensin II-induced abdominal aortic aneurysms in mice. <i>Scientific Reports</i> , 2021 , 11, 8584	4.9	4
48	MiR155 modulates vascular calcification by regulating Akt-FOXO3a signalling and apoptosis in vascular smooth muscle cells. <i>Journal of Cellular and Molecular Medicine</i> , 2021 , 25, 535-548	5.6	4
47	Diet alters age-related remodeling of aortic collagen in mice susceptible to atherosclerosis. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2021 , 320, H52-H65	5.2	2
46	Bone marrow deficiency of mRNA decaying protein Tristetraprolin increases inflammation and mitochondrial ROS but reduces hepatic lipoprotein production in LDLR knockout mice. <i>Redox Biology</i> , 2020 , 37, 101609	11.3	8
45	Null strain analysis of submerged aneurysm analogues using a novel 3D stereomicroscopy device. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2020 , 23, 332-344	2.1	4
44	Targeted Gold Nanoparticles as an Indicator of Mechanical Damage in an Elastase Model of Aortic Aneurysm. <i>Annals of Biomedical Engineering</i> , 2020 , 48, 2268-2278	4.7	6
43	Gold nanoparticles that target degraded elastin improve imaging and rupture prediction in an AngII mediated mouse model of abdominal aortic aneurysm. <i>Theranostics</i> , 2019 , 9, 4156-4167	12.1	14
42	Geometric determinants of local hemodynamics in severe carotid artery stenosis. <i>Computers in Biology and Medicine</i> , 2019 , 114, 103436	7	10
41	Beyond the Airbrush: Applications of Digital Image Correlation in Vascular Biomechanics. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2019 , 1-4	0.3	1
40	Experimental and numerical studies of two arterial wall delamination modes. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2018 , 77, 321-330	4.1	10
39	Determination of Viscoelastic Properties of human Carotid Atherosclerotic Plaque by Inverse Boundary Value Analysis. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018 , 381,	0.4	2
38	Comparative mechanics of diverse mammalian carotid arteries. <i>PLoS ONE</i> , 2018 , 13, e0202123	3.7	13
37	Atherosclerotic plaque delamination: Experiments and 2D finite element model to simulate plaque peeling in two strains of transgenic mice. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2017 , 67, 19-30	4.1	4
36	Characterization of fracture behavior of human atherosclerotic fibrous caps using a miniature single edge notched tensile test. <i>Acta Biomaterialia</i> , 2016 , 43, 101-111	10.8	10
35	Numerical modeling of experimental human fibrous cap delamination. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2016 , 59, 322-336	4.1	5
34	Diet Alters Age-related Remodeling of Aortic Extracellular Matrix in Mice Susceptible to Atherosclerosis. <i>FASEB Journal</i> , 2016 , 30, 1082.10	0.9	

33	Comparison of Aortic Collagen Fiber Angle Distribution in Mouse Models of Atherosclerosis Using Second-Harmonic Generation (SHG) Microscopy. <i>Microscopy and Microanalysis</i> , 2016 , 22, 55-62	0.5	14
32	Adiporedoxin suppresses endothelial activation via inhibiting MAPK and NF- κ B signaling. <i>Scientific Reports</i> , 2016 , 6, 38975	4.9	12
31	(Second) Harmonic Disharmony: Nonlinear Microscopy Shines New Light on the Pathology of Atherosclerosis. <i>Microscopy and Microanalysis</i> , 2016 , 22, 589-98	0.5	7
30	Standard duplex criteria overestimate the degree of stenosis after eversion carotid endarterectomy. <i>Journal of Vascular Surgery</i> , 2015 , 61, 1457-63	3.5	7
29	Modeling of Experimental Atherosclerotic Plaque Delamination. <i>Annals of Biomedical Engineering</i> , 2015 , 43, 2838-51	4.7	11
28	On the Uniaxial Ring Test of Tissue Engineered Constructs. <i>Experimental Mechanics</i> , 2015 , 55, 41-51	2.6	30
27	Simulation of Atherosclerotic Plaque Delamination Using the Cohesive Zone Model. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2015 , 81-88	0.3	
26	Diet-induced Vascular Remodeling Produces a Shift in Collagen Fiber Angle Distribution in a Mouse Model of Atherosclerosis. <i>FASEB Journal</i> , 2015 , 29, 719.9	0.9	
25	Nanoparticle targeting to diseased vasculature for imaging and therapy. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2014 , 10, 1003-12	6	35
24	Numerical simulation of arterial dissection during balloon angioplasty of atherosclerotic coronary arteries. <i>Journal of Biomechanics</i> , 2014 , 47, 878-89	2.9	23
23	Cellularized microcarriers as adhesive building blocks for fabrication of tubular tissue constructs. <i>Annals of Biomedical Engineering</i> , 2014 , 42, 1470-81	4.7	18
22	Quantitative Measurement of Dissection Resistance in Intimal and Medial Layers of Human Coronary Arteries. <i>Experimental Mechanics</i> , 2014 , 54, 677-683	2.6	16
21	Comparing the Passive Biomechanics of Tension-Pressure Loading of Porcine Renal Artery and Its First Branch. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2014 , 35-40	0.3	
20	Adhesive strength of atherosclerotic plaque in a mouse model depends on local collagen content and elastin fragmentation. <i>Journal of Biomechanics</i> , 2013 , 46, 716-22	2.9	17
19	Biomechanics of porcine renal arteries and role of axial stretch. <i>Journal of Biomechanical Engineering</i> , 2013 , 135, 81007	2.1	20
18	Sparstolonin B inhibits pro-angiogenic functions and blocks cell cycle progression in endothelial cells. <i>PLoS ONE</i> , 2013 , 8, e70500	3.7	23
17	Mechanical identification of layer-specific properties of mouse carotid arteries using 3D-DIC and a hyperelastic anisotropic constitutive model. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2012 , 15, 37-48	2.1	33
16	Development of a quantitative mechanical test of atherosclerotic plaque stability. <i>Journal of Biomechanics</i> , 2011 , 44, 2439-45	2.9	21

15	Speckle patterning of soft tissues for strain field measurement using digital image correlation: preliminary quality assessment of patterns. <i>Microscopy and Microanalysis</i> , 2011 , 17, 81-90	0.5	21
14	Deformation measurements and material property estimation of mouse carotid artery using a microstructure-based constitutive model. <i>Journal of Biomechanical Engineering</i> , 2010 , 132, 121010	2.1	23
13	Development of a Quantitative Mechanical Test of Atherosclerotic Plaque Stability 2010 ,		1
12	Will the real plaque vasculature please stand up? Why we need to distinguish the vasa plaquorum from the vasa vasorum. <i>Trends in Cardiovascular Medicine</i> , 2009 , 19, 87-94	6.9	11
11	Focused in vivo genetic analysis of implanted engineered myofascial constructs. <i>Journal of Investigative Surgery</i> , 2009 , 22, 35-45	1.2	8
10	Novel role of antioxidant-1 (Atox1) as a copper-dependent transcription factor involved in cell proliferation. <i>Journal of Biological Chemistry</i> , 2008 , 283, 9157-67	5.4	167
9	Matrix metalloproteinase 9 facilitates collagen remodeling and angiogenesis for vascular constructs. <i>Tissue Engineering</i> , 2005 , 11, 267-76		36
8	Vascular oxidant stress enhances progression and angiogenesis of experimental atheroma. <i>Circulation</i> , 2004 , 109, 520-5	16.7	190
7	Compensatory vascular remodeling during atherosclerotic lesion growth depends on matrix metalloproteinase-9 activity. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2004 , 24, 2123-9	9.4	36
6	Matrix metalloproteinase-9 is required for adequate angiogenic revascularization of ischemic tissues: potential role in capillary branching. <i>Circulation Research</i> , 2004 , 94, 262-8	15.7	157
5	Matrix metalloproteinases and vascular endothelium-mononuclear cell close encounters. <i>Trends in Cardiovascular Medicine</i> , 2004 , 14, 105-11	6.9	16
4	Cyclophilin A as a novel biphasic mediator of endothelial activation and dysfunction. <i>American Journal of Pathology</i> , 2004 , 164, 1567-74	5.8	118
3	Expansive arterial remodeling is associated with increased neointimal macrophage foam cell content: the murine model of macrophage-rich carotid artery lesions. <i>Circulation</i> , 2002 , 105, 2686-91	16.7	89
2	Atherosclerotic lesions grow through recruitment and proliferation of circulating monocytes in a murine model. <i>American Journal of Pathology</i> , 2002 , 160, 2145-55	5.8	139
1	Inflammation and Matrix Metalloproteinases 140-161		