

# Heather N Hayenga

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1236096/publications.pdf>

Version: 2024-02-01

25  
papers

889  
citations

566801

15  
h-index

580395

25  
g-index

26  
all docs

26  
docs citations

26  
times ranked

1726  
citing authors

#	ARTICLE	IF	CITATIONS
1	PEGDA hydrogels with patterned elasticity: Novel tools for the study of cell response to substrate rigidity. <i>Biotechnology and Bioengineering</i> , 2010, 105, 636-644.	1.7	243
2	Targeting Hypoxia-Inducible Factor-1 $\alpha$ /Pyruvate Dehydrogenase Kinase 1 Axis by Dichloroacetate Suppresses Bleomycin-induced Pulmonary Fibrosis. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2018, 58, 216-231.	1.4	103
3	Substrate elasticity regulates the behavior of human monocyte-derived macrophages. <i>European Biophysics Journal</i> , 2016, 45, 301-309.	1.2	95
4	Human Neutrophil Cytoskeletal Dynamics and Contractility Actively Contribute to Trans-Endothelial Migration. <i>PLoS ONE</i> , 2013, 8, e61377.	1.1	53
5	Reversibly Modulating the Blood-Brain Barrier by Laser Stimulation of Molecular-Targeted Nanoparticles. <i>Nano Letters</i> , 2021, 21, 9805-9815.	4.5	49
6	Regional Atherosclerotic Plaque Properties in ApoE $^{-/-}$ Mice Quantified by Atomic Force, Immunofluorescence, and Light Microscopy. <i>Journal of Vascular Research</i> , 2011, 48, 495-504.	0.6	42
7	Toward a Multi-Scale Computational Model of Arterial Adaptation in Hypertension: Verification of a Multi-Cell Agent Based Model. <i>Frontiers in Physiology</i> , 2011, 2, 20.	1.3	36
8	Ensuring Congruency in Multiscale Modeling: Towards Linking Agent Based and Continuum Biomechanical Models of Arterial Adaptation. <i>Annals of Biomedical Engineering</i> , 2011, 39, 2669-2682.	1.3	36
9	Osteogenic Potential of Poly(Ethylene Glycol)-Poly(Dimethylsiloxane) Hybrid Hydrogels. <i>Tissue Engineering - Part A</i> , 2012, 18, 1710-1719.	1.6	32
10	Shape-Morphing Chromonic Liquid Crystal Hydrogels. <i>Chemistry of Materials</i> , 2016, 28, 8489-8492.	3.2	31
11	An agent-based model of leukocyte transendothelial migration during atherogenesis. <i>PLoS Computational Biology</i> , 2017, 13, e1005523.	1.5	29
12	Mechanobiological model of arterial growth and remodeling. <i>Biomechanics and Modeling in Mechanobiology</i> , 2018, 17, 87-101.	1.4	27
13	Transmigration of Neutrophils across Inflamed Endothelium Is Signaled through LFA-1 and Src Family Kinase. <i>Journal of Immunology</i> , 2008, 181, 8660-8669.	0.4	25
14	p66 <sup>Shc</sup> Couples Mechanical Signals to RhoA through Focal Adhesion Kinase-Dependent Recruitment of p115-RhoGEF and GEF-H1. <i>Molecular and Cellular Biology</i> , 2016, 36, 2824-2837.	1.1	22
15	Stiffness Increases Mononuclear Cell Transendothelial Migration. <i>Cellular and Molecular Bioengineering</i> , 2013, 6, 253-265.	1.0	15
16	Intraspinal Dissemination and Local Recurrence of an Intracranial Hemangiopericytoma. <i>World Neurosurgery</i> , 2019, 123, 68-75.	0.7	10
17	Multiscale Computational Modeling in Vascular Biology: From Molecular Mechanisms to Tissue-Level Structure and Function. <i>Studies in Mechanobiology, Tissue Engineering and Biomaterials</i> , 2013, , 209-240.	0.7	7
18	<i>In Silico</i> Tissue Engineering: A Coupled Agent-Based Finite Element Approach. <i>Tissue Engineering - Part C: Methods</i> , 2019, 25, 641-654.	1.1	7

#	ARTICLE	IF	CITATIONS
19	Relative impact of form-induced stress vs. uniaxial alignment on multipotent stem cell myogenesis. <i>Acta Biomaterialia</i> , 2012, 8, 3974-3981.	4.1	6
20	Differential Regulation of Neutrophil CD18 Integrin Function by Di- and Tri-Valent Cations: Manganese vs. Gadolinium. <i>Annals of Biomedical Engineering</i> , 2008, 36, 647-660.	1.3	4
21	Substrate Stiffness Regulates the Behavior of Human Monocyte-Derived Macrophages. <i>Biophysical Journal</i> , 2015, 108, 306a-307a.	0.2	4
22	Dependence of leukocyte capture on instantaneous pulsatile flow. <i>Journal of Biomechanics</i> , 2018, 76, 84-93.	0.9	4
23	Inflammation Drives Stiffness Mediated Uptake of Lipoproteins in Primary Human Macrophages and Foam Cell Proliferation. <i>Annals of Biomedical Engineering</i> , 2021, 49, 3425-3437.	1.3	4
24	Assessment with clinical data of a coupled bio-hemodynamics numerical model to predict leukocyte adhesion in coronary arteries. <i>Scientific Reports</i> , 2021, 11, 12680.	1.6	3
25	Rare solid and cystic presentation of hemangiopericytoma/ solitary fibrous tumor: A case report. <i>Current Problems in Cancer Case Reports</i> , 2022, 6, 100149.	0.1	1