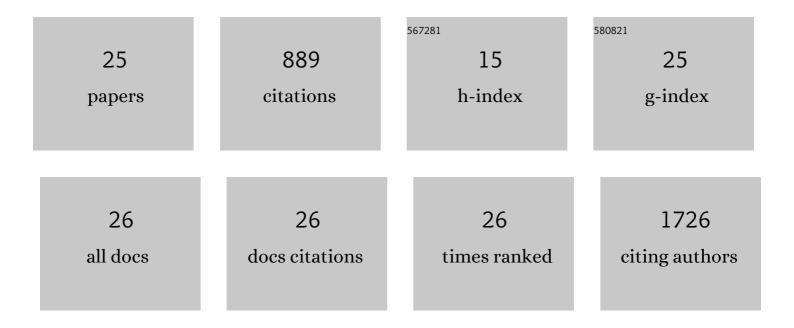
Heather N Hayenga

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	PEGDA hydrogels with patterned elasticity: Novel tools for the study of cell response to substrate rigidity. Biotechnology and Bioengineering, 2010, 105, 636-644.	3.3	243
2	Targeting Hypoxia-Inducible Factor-1α/Pyruvate Dehydrogenase Kinase 1 Axis by Dichloroacetate Suppresses Bleomycin-induced Pulmonary Fibrosis. American Journal of Respiratory Cell and Molecular Biology, 2018, 58, 216-231.	2.9	103
3	Substrate elasticity regulates the behavior of human monocyte-derived macrophages. European Biophysics Journal, 2016, 45, 301-309.	2.2	95
4	Human Neutrophil Cytoskeletal Dynamics and Contractility Actively Contribute to Trans-Endothelial Migration. PLoS ONE, 2013, 8, e61377.	2.5	53
5	Reversibly Modulating the Blood–Brain Barrier by Laser Stimulation of Molecular-Targeted Nanoparticles. Nano Letters, 2021, 21, 9805-9815.	9.1	49
6	Regional Atherosclerotic Plaque Properties in ApoE–/– Mice Quantified by Atomic Force, Immunofluorescence, and Light Microscopy. Journal of Vascular Research, 2011, 48, 495-504.	1.4	42
7	Toward a Multi-Scale Computational Model of Arterial Adaptation in Hypertension: Verification of a Multi-Cell Agent Based Model. Frontiers in Physiology, 2011, 2, 20.	2.8	36
8	Ensuring Congruency in Multiscale Modeling: Towards Linking Agent Based and Continuum Biomechanical Models of Arterial Adaptation. Annals of Biomedical Engineering, 2011, 39, 2669-2682.	2.5	36
9	Osteogenic Potential of Poly(Ethylene Clycol)–Poly(Dimethylsiloxane) Hybrid Hydrogels. Tissue Engineering - Part A, 2012, 18, 1710-1719.	3.1	32
10	Shape-Morphing Chromonic Liquid Crystal Hydrogels. Chemistry of Materials, 2016, 28, 8489-8492.	6.7	31
11	An agent-based model of leukocyte transendothelial migration during atherogenesis. PLoS Computational Biology, 2017, 13, e1005523.	3.2	29
12	Mechanobiological model of arterial growth and remodeling. Biomechanics and Modeling in Mechanobiology, 2018, 17, 87-101.	2.8	27
13	Transmigration of Neutrophils across Inflamed Endothelium Is Signaled through LFA-1 and Src Family Kinase. Journal of Immunology, 2008, 181, 8660-8669.	0.8	25
14	p66 ^{Shc} Couples Mechanical Signals to RhoA through Focal Adhesion Kinase-Dependent Recruitment of p115-RhoGEF and GEF-H1. Molecular and Cellular Biology, 2016, 36, 2824-2837.	2.3	22
15	Stiffness Increases Mononuclear Cell Transendothelial Migration. Cellular and Molecular Bioengineering, 2013, 6, 253-265.	2.1	15
16	Intraspinal Dissemination and Local Recurrence of an Intracranial Hemangiopericytoma. World Neurosurgery, 2019, 123, 68-75.	1.3	10
17	Multiscale Computational Modeling in Vascular Biology: From Molecular Mechanisms to Tissue-Level Structure and Function. Studies in Mechanobiology, Tissue Engineering and Biomaterials, 2013, , 209-240.	1.0	7
18	<i>In Silico</i> Tissue Engineering: A Coupled Agent-Based Finite Element Approach. Tissue Engineering - Part C: Methods, 2019, 25, 641-654.	2.1	7

2

HEATHER N HAYENGA

#	Article	IF	CITATIONS
19	Relative impact of form-induced stress vs. uniaxial alignment on multipotent stem cell myogenesis. Acta Biomaterialia, 2012, 8, 3974-3981.	8.3	6
20	Differential Regulation of Neutrophil CD18 Integrin Function by Di- and Tri-Valent Cations: Manganese vs. Gadolinium. Annals of Biomedical Engineering, 2008, 36, 647-660.	2.5	4
21	Substrate Stiffness Regulates the Behavior of Human Monocyte-Derived Macrophages. Biophysical Journal, 2015, 108, 306a-307a.	0.5	4
22	Dependence of leukocyte capture on instantaneous pulsatile flow. Journal of Biomechanics, 2018, 76, 84-93.	2.1	4
23	Inflammation Drives Stiffness Mediated Uptake of Lipoproteins in Primary Human Macrophages and Foam Cell Proliferation. Annals of Biomedical Engineering, 2021, 49, 3425-3437.	2.5	4
24	Assessment with clinical data of a coupled bio-hemodynamics numerical model to predict leukocyte adhesion in coronary arteries. Scientific Reports, 2021, 11, 12680.	3.3	3
25	Rare solid and cystic presentation of hemangiopericytoma/ solitary fibrous tumor: A case report. Current Problems in Cancer Case Reports, 2022, 6, 100149.	0.1	1