

# Herbert H Lipowsky

## List of Publications by Year in descending order

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38  
papers

2,750  
citations

304368

22  
h-index

395343

33  
g-index

39  
all docs

39  
docs citations

39  
times ranked

2211  
citing authors

#	ARTICLE	IF	CITATIONS
1	Relative shedding of glycosaminoglycans from the endothelial glycocalyx during inflammation and their contribution to stiffness of the glycocalyx. <i>Biorheology</i> , 2019, 56, 191-205.	1.2	10
2	Mesenchymal Stem Cell Deformability and Implications for Microvascular Sequestration. <i>Annals of Biomedical Engineering</i> , 2018, 46, 640-654.	1.3	14
3	Role of the Glycocalyx as a Barrier to Leukocyte-Endothelium Adhesion. <i>Advances in Experimental Medicine and Biology</i> , 2018, 1097, 51-68.	0.8	22
4	Inhibition of inflammation induced shedding of the endothelial glycocalyx with low molecular weight heparin. <i>Microvascular Research</i> , 2017, 112, 72-78.	1.1	44
5	Role of matrix metalloproteases in the kinetics of leukocyte-endothelial adhesion in post-capillary venules. <i>Biorheology</i> , 2016, 52, 433-445.	1.2	4
6	Influence of thickness and permeability of endothelial surface layer on transmission of shear stress in capillaries. <i>Science China: Physics, Mechanics and Astronomy</i> , 2015, 58, 1-9.	2.0	0
7	The effect of doxycycline on shedding of the glycocalyx due to reactive oxygen species. <i>Microvascular Research</i> , 2013, 90, 80-85.	1.1	59
8	Shear-Dependent Adhesion of Leukocytes and Lectins to the Endothelium and Concurrent Changes in Thickness of the Glycocalyx of Post-Capillary Venules in the Low-Flow State. <i>Microcirculation</i> , 2013, 20, 149-157.	1.0	10
9	In vivo studies of blood rheology in the microcirculation in an in vitro world: Past, present and future. <i>Biorheology</i> , 2013, 50, 3-16.	1.2	7
10	The Endothelial Glycocalyx as a Barrier to Leukocyte Adhesion and Its Mediation by Extracellular Proteases. <i>Annals of Biomedical Engineering</i> , 2012, 40, 840-848.	1.3	133
11	Shedding of the Endothelial Glycocalyx and the Resistance to Flow in Capillaries. <i>FASEB Journal</i> , 2012, 26, 859.2.	0.2	0
12	Protease activity and the role of the endothelial glycocalyx in inflammation. <i>Drug Discovery Today: Disease Models</i> , 2011, 8, 57-62.	1.2	51
13	Shedding of the endothelial glycocalyx in arterioles, capillaries, and venules and its effect on capillary hemodynamics during inflammation. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2011, 301, H2235-H2245.	1.5	82
14	Relative roles of doxycycline and cation chelation in endothelial glycan shedding and adhesion of leukocytes. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2011, 300, H415-H422.	1.5	28
15	Composition of the endothelial glycocalyx and its relation to its thickness and diffusion of small solutes. <i>Microvascular Research</i> , 2010, 80, 394-401.	1.1	147
16	Measurement of Solute Transport in the Endothelial Glycocalyx Using Indicator Dilution Techniques. <i>Annals of Biomedical Engineering</i> , 2009, 37, 1781-1795.	1.3	6
17	Inhibition of Glycan Shedding and Leukocyte-Endothelial Adhesion in Postcapillary Venules by Suppression of Matrixmetalloprotease Activity with Doxycycline. <i>Microcirculation</i> , 2009, 16, 657-666.	1.0	111
18	Inhibition of Glycan Shedding from the Endothelial Glycocalyx and Adhesion of Leukocytes by Doxycycline in Post-Capillary Venules. <i>FASEB Journal</i> , 2008, 22, 731.15.	0.2	0

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19	Shedding of the Endothelial Glycocalyx in Arterioles, Capillaries and Venules. <i>FASEB Journal</i> , 2007, 21, .	0.2	0
20	Microvascular Rheology and Hemodynamics. <i>Microcirculation</i> , 2005, 12, 5-15.	1.0	343
21	Effect of Fibrinogen on Leukocyte Margination and Adhesion in Postcapillary Venules. <i>Microcirculation</i> , 2004, 11, 295-306.	1.0	27
22	Leukocyte Rolling in Rat Mesentery Venules: Distribution of Adhesion Bonds and the Effects of Cytoactive Agents. <i>Annals of Biomedical Engineering</i> , 2001, 29, 360-372.	1.3	6
23	Influence of erythrocyte aggregation on leukocyte margination in postcapillary venules of rat mesentery. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2000, 279, H1460-H1471.	1.5	86
24	Capillary recruitment in response to tissue hypoxia and its dependence on red blood cell deformability. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 1999, 277, H2145-H2157.	1.5	117
25	Mechanics of Leukocyte Deformation and Adhesion to Endothelium in Shear Flow. <i>Annals of Biomedical Engineering</i> , 1999, 27, 298-312.	1.3	142
26	Shear Rate Dependency of Red Cell Sequestration in Skin Capillaries in Sickle Cell Disease and Its Variation with Vasoocclusive Crisis. <i>Microcirculation</i> , 1997, 4, 289-301.	1.0	18
27	Image enhancement of their <i>in vivo</i> leukocyte-endothelium contact zone using optical sectioning microscopy. <i>Annals of Biomedical Engineering</i> , 1997, 25, 521-535.	1.3	9
28	<i>In vivo</i> mechanical properties of leukocytes during adhesion to venular endothelium. <i>Biorheology</i> , 1991, 28, 53-64.	1.2	45
29	Role of Leukocyte-Endothelium Adhesion in Affecting Recovery from Ischemic Episodes. <i>Annals of the New York Academy of Sciences</i> , 1989, 565, 308-315.	1.8	27
30	<i>In vivo</i> and <i>in vitro</i> measurements of red cell velocity under epifluorescence microscopy. <i>Microvascular Research</i> , 1989, 38, 110-124.	1.1	28
31	Arteriovenous distribution of transit times in cremaster muscle of the rat. <i>Microvascular Research</i> , 1988, 36, 75-91.	1.1	13
32	Leukocyte-endothelium adhesion: Microhemodynamics in mesentery of the cat. <i>Microvascular Research</i> , 1987, 34, 363-379.	1.1	339
33	Hematocrit determination in small bore tubes by differential spectrophotometry. <i>Microvascular Research</i> , 1982, 24, 42-55.	1.1	40
34	Hematocrit determination in small bore tubes from optical density measurements under white light illumination. <i>Microvascular Research</i> , 1980, 20, 51-70.	1.1	35
35	<i>In vivo</i> measurements of "apparent viscosity" and microvessel hematocrit in the mesentery of the cat. <i>Microvascular Research</i> , 1980, 19, 297-319.	1.1	362
36	Application of the "two-slit" photometric technique to the measurement of microvascular volumetric flow rates. <i>Microvascular Research</i> , 1978, 15, 93-101.	1.1	308

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37	Methods for the simultaneous measurement of pressure differentials and flow in single unbranched vessels of the microcirculation for rheological studies. <i>Microvascular Research</i> , 1977, 14, 345-361.	1.1	72
38	Inhibition of Glycan Shedding and Leukocyte-Endothelial Adhesion in Postcapillary Venules by Suppression of Matrixmetalloprotease Activity with Doxycycline. <i>Microcirculation</i> , 0, , 1-10.	1.0	5