

Virginia H Huxley

List of Publications by Citations

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

98
papers

2,388
citations

27
h-index

45
g-index

111
ext. papers

2,568
ext. citations

4.2
avg, IF

4.85
L-index

#	Paper	IF	Citations
98	Intravascular metastatic cancer cell homotypic aggregation at the sites of primary attachment to the endothelium. <i>Cancer Research</i> , 2003 , 63, 3805-11	10.1	189
97	Mechanical entrapment is insufficient and intercellular adhesion is essential for metastatic cell arrest in distant organs. <i>Neoplasia</i> , 2005 , 7, 522-7	6.4	136
96	Increased capillary hydraulic conductivity induced by atrial natriuretic peptide. <i>Circulation Research</i> , 1987 , 60, 304-7	15.7	136
95	Role of a glycocalyx on coronary arteriole permeability to proteins: evidence from enzyme treatments. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2000 , 278, H1177-85	5.2	102
94	Sex and the cardiovascular system: the intriguing tale of how women and men regulate cardiovascular function differently. <i>American Journal of Physiology - Advances in Physiology Education</i> , 2007 , 31, 17-22	1.9	100
93	Quantitative fluorescence microscopy on single capillaries: alpha-lactalbumin transport. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 1987 , 252, H188-97	5.2	85
92	Galectin-3 as a potential therapeutic target in tumors arising from malignant endothelia. <i>Neoplasia</i> , 2007 , 9, 662-70	6.4	77
91	Capillary hydraulic conductivity is elevated by cGMP-dependent vasodilators. <i>Circulation Research</i> , 1992 , 70, 382-91	15.7	77
90	Inhibition of spontaneous breast cancer metastasis by anti-Thomsen-Friedenreich antigen monoclonal antibody JAA-F11. <i>Neoplasia</i> , 2006 , 8, 939-48	6.4	72
89	In vivo determination of collecting lymphatic vessel permeability to albumin: a role for lymphatics in exchange. <i>Journal of Physiology</i> , 2010 , 588, 243-54	3.9	61
88	The effect of the red cell membrane and a diffusion boundary layer on the rate of oxygen uptake by human erythrocytes. <i>Journal of Physiology</i> , 1981 , 316, 75-83	3.9	61
87	Capillary Fluid Exchange: Regulation, Functions, and Pathology. <i>Colloquium Series on Integrated Systems Physiology From Molecule To Function</i> , 2010 , 2, 1-94		54
86	Intrinsic sex-specific differences in microvascular endothelial cell phosphodiesterases. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2010 , 298, H1146-54	5.2	53
85	Synthetic galectin-3 inhibitor increases metastatic cancer cell sensitivity to taxol-induced apoptosis in vitro and in vivo. <i>Neoplasia</i> , 2009 , 11, 901-9	6.4	44
84	Lymphatic fluid: exchange mechanisms and regulation. <i>Journal of Physiology</i> , 2011 , 589, 2935-43	3.9	42
83	Evidence of porcine and human endothelium activation by cancer-associated carbohydrates expressed on glycoproteins and tumour cells. <i>Journal of Physiology</i> , 2004 , 554, 89-99	3.9	37
82	Macromolecule permeability of in situ and excised rodent skeletal muscle arterioles and venules. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2006 , 290, H474-80	5.2	36

81	Effect of diffusion boundary layers on the initial uptake of O ₂ by red cells. Theory versus experiment. <i>Microvascular Research</i> , 1983 , 26, 89-107	3.7	36
80	Differential effects of L-NAME on rat venular hydraulic conductivity. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2000 , 279, H2017-23	5.2	35
79	Sex-Specific Characteristics of the Microcirculation. <i>Advances in Experimental Medicine and Biology</i> , 2018 , 1065, 307-328	3.6	34
78	Albumin modulation of capillary permeability: test of an adsorption mechanism. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 1985 , 248, H264-73	5.2	34
77	Permeability and contractile responses of collecting lymphatic vessels elicited by atrial and brain natriuretic peptides. <i>Journal of Physiology</i> , 2013 , 591, 5071-81	3.9	33
76	Attenuation of endothelial dysfunction by exercise training in STZ-induced diabetic rats. <i>Clinical Hemorheology and Microcirculation</i> , 2005 , 32, 217-26	2.5	33
75	The microvasculature as a dynamic regulator of volume and solute exchange. <i>Clinical and Experimental Pharmacology and Physiology</i> , 2000 , 27, 847-54	3	31
74	Differential actions of albumin and plasma on capillary solute permeability. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 1991 , 260, H1645-54	5.2	31
73	Capillary hydraulic conductivity is decreased by nitric oxide synthase inhibition. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 1995 , 268, H1856-61	5.2	30
72	Single capillary permeability to proteins having similar size but different charge. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 1988 , 254, H304-12	5.2	30
71	Similar permeability responses to nitric oxide synthase inhibitors of venules from three animal species. <i>Microvascular Research</i> , 2002 , 64, 21-31	3.7	27
70	Permeability of single capillaries to intermediate-sized colored solutes. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 1983 , 245, H495-505	5.2	26
69	Continuous real time ex vivo epifluorescent video microscopy for the study of metastatic cancer cell interactions with microvascular endothelium. <i>Clinical and Experimental Metastasis</i> , 2003 , 20, 451-8	4.7	25
68	Differential coronary microvascular exchange responses to adenosine: roles of receptor and microvessel subtypes. <i>Microcirculation</i> , 2005 , 12, 313-26	2.9	25
67	Cardiovascular Function and Ballistocardiogram: A Relationship Interpreted via Mathematical Modeling. <i>IEEE Transactions on Biomedical Engineering</i> , 2019 , 66, 2906-2917	5	24
66	Acid-induced increase in duodenal mucosal permeability is augmented by nitric oxide inhibition and vasopressin. <i>Acta Physiologica Scandinavica</i> , 1997 , 160, 363-70		23
65	Leakage responses to L-NAME differ with the fluorescent dye used to label albumin. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 1999 , 276, H333-9	5.2	23
64	Sex differences influencing micro- and macrovascular endothelial phenotype in vitro. <i>Journal of Physiology</i> , 2018 , 596, 3929-3949	3.9	22

63	Differential action of plasma and albumin on transcapillary exchange of anionic solute. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 1993 , 264, H1428-37	5.2	22
62	Sexual dimorphism in the permeability response of coronary microvessels to adenosine. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2005 , 288, H2006-13	5.2	21
61	ANP increases capillary permeability to protein independent of perfusate protein composition. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 1995 , 268, H1139-48	5.2	20
60	Fluorescent dyes modify properties of proteins used in microvascular research. <i>Microcirculation</i> , 2003 , 10, 221-31	2.9	20
59	Reverse engineering of oxygen transport in the lung: adaptation to changing demands and resources through space-filling networks. <i>PLoS Computational Biology</i> , 2010 , 6, e1000902	5	19
58	Adaptation of coronary microvascular exchange in arterioles and venules to exercise training and a role for sex in determining permeability responses. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2007 , 293, H1196-205	5.2	18
57	Microvascular network remodeling in dura mater of ovariectomized pigs: role for angiotensin-1 in estrogen-dependent control of vascular stability. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2007 , 293, H1131-7	5.2	18
56	Determination of fluorescence polarization of membrane probes in intact erythrocytes. Possible scattering artifacts. <i>Biophysical Journal</i> , 1982 , 39, 229-32	2.9	18
55	Cardiovascular sex differences influencing microvascular exchange. <i>Cardiovascular Research</i> , 2010 , 87, 230-42	9.9	17
54	Altered basal and adenosine-mediated protein flux from coronary arterioles isolated from exercise-trained pigs. <i>Acta Physiologica Scandinavica</i> , 1997 , 160, 315-25		17
53	Adenosine A2A receptor modulation of juvenile female rat skeletal muscle microvessel permeability. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2006 , 291, H3094-105	5.2	16
52	Endothelium-mediated control of the coronary circulation. Exercise training-induced vascular adaptations. <i>Sports Medicine</i> , 1996 , 22, 228-50	10.6	16
51	Basal and adenosine-mediated protein flux from isolated coronary arterioles. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 1996 , 271, H1099-108	5.2	15
50	Pulsed estrogen therapy prevents post-OVX porcine dura mater microvascular network weakening via a PDGF-BB-dependent mechanism. <i>PLoS ONE</i> , 2013 , 8, e82900	3.7	14
49	Measurement of hydraulic conductivity in isolated arterioles of rat brain cortex. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 1993 , 264, H1788-97	5.2	13
48	Differential sensitivity of exchange vessel hydraulic conductivity to atrial natriuretic peptide. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 1990 , 258, H521-8	5.2	12
47	Random Forests for Dura Mater Microvasculature Segmentation Using Epifluorescence Images. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2016 , 2016, 2901-2904	0.9	11
46	Microvasculature segmentation of arterioles using deep CNN 2017 ,		11

45	Effect of superfusate albumin on single capillary hydraulic conductivity. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 1987 , 252, H395-401	5.2	11
44	Vasoactive hormones and autocrine activation of capillary exchange barrier function. <i>Nouvelle Revue Française Dthmatologie</i> , 1993 , 19, 309-20; discussion 320-4		11
43	Multi-focus image fusion using epifluorescence microscopy for robust vascular segmentation. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2014 , 2014, 4735-8	0.9	10
42	In vivo visualization of cerebral microcirculation in systemic thermal injury. <i>Journal of Burn Care and Research</i> , 2000 , 21, 20-5		9
41	Volume status influences atrial peptide-induced water conductivity changes in leopard frog mesenteric capillaries. <i>Journal of Physiology</i> , 1992 , 447, 33-47	3.9	9
40	A direct effect of atrial peptide on arterioles of the terminal microvasculature. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 1990 , 258, R1224-9	3.2	9
39	Permeability response of the rat mesenteric microvasculature to insulin. <i>Clinical Hemorheology and Microcirculation</i> , 2006 , 34, 259-63	2.5	9
38	The P2Y Receptor Interacts with VE-Cadherin and VEGF Receptor-2 to Regulate Rac1 Activity in Endothelial Cells. <i>Journal of Biomedical Science and Engineering</i> , 2014 , 7, 1105-1121	0.7	9
37	Atrial natriuretic peptide (ANP)-induced increase in capillary albumin and water flux. <i>Advances in Experimental Medicine and Biology</i> , 1988 , 242, 23-31	3.6	9
36	MULTISCALE TENSOR ANISOTROPIC FILTERING OF FLUORESCENCE MICROSCOPY FOR DENOISING MICROVASCULATURE 2015 , 2015, 540-543	1.5	8
35	Deep U-Net Regression and Hand-Crafted Feature Fusion for Accurate Blood Vessel Segmentation 2019 ,		7
34	Seasonal variations of capillary hydraulic conductivity and volume status. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 1995 , 268, R468-74	3.2	7
33	Evidence for cholinergic regulation of microvessel hydraulic conductance during tissue hypoxia. <i>Circulation Research</i> , 1990 , 66, 517-24	15.7	7
32	O ₂ modulation of single-vessel hydraulic conductance. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 1988 , 254, H317-23	5.2	7
31	Morphologic analysis of the cerebral microcirculation after thermal injury and the response to fluid resuscitation. <i>Acta Neurochirurgica Supplementum</i> , 1997 , 70, 267-8	1.7	7
30	What Do Measures of Flux Tell Us About Vascular Wall Biology?. <i>Microcirculation</i> , 1998 , 5, 109-116	2.9	6
29	Comparison of the capillary membrane properties determining fluid exchange in single capillaries and whole organs. <i>International Journal of Microcirculation, Clinical and Experimental</i> , 1982 , 1, 381-91		6
28	Cerebral vascular response to hypertonic fluid resuscitation in thermal injury. <i>Acta Neurochirurgica Supplementum</i> , 1997 , 70, 265-6	1.7	6

27	Confocal Vessel Structure Segmentation with Optimized Feature Bank and Random Forests 2016 , 2016,		5
26	PDGF/VEGF system activation and angiogenesis following initial post ovariectomy meningeal microvessel loss. <i>Cell Cycle</i> , 2008 , 7, 1385-90	4.7	5
25	Bradykinin-induced elevations of hydraulic conductivity display spatial and temporal variations in frog capillaries. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 1993 , 264, H1575-81	5.2	5
24	Capillary permeability: an albumin component attenuates active changes in Lp. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 1990 , 259, H1357-64	5.2	5
23	Physiologic regulation of capillary permeability. <i>Journal of Reconstructive Microsurgery</i> , 1988 , 4, 341-6	2.5	5
22	Estrogen-Dependent Changes in Dura Mater Microvasculature Add New Insights to the Pathogenesis of Headache. <i>Frontiers in Neurology</i> , 2017 , 8, 549	4.1	4
21	Endothelial barrier dysfunction in diabetic conduit arteries: a novel method to quantify filtration. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2013 , 304, H398-405	5.2	4
20	Multiquadric Spline-Based Interactive Segmentation of Vascular Networks. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2016 , 2016, 5913-5916	0.9	4
19	What do measures of flux tell us about vascular wall biology?. <i>Microcirculation</i> , 1998 , 5, 109-16	2.9	4
18	Complex Non-sinus-associated Pachymeningeal Lymphatic Structures: Interrelationship With Blood Microvasculature. <i>Frontiers in Physiology</i> , 2019 , 10, 1364	4.6	3
17	Capillary permeability: atrial peptide action is independent of "protein effect". <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 1990 , 259, H1351-6	5.2	3
16	Deep Learning Segmentation for Epifluorescence Microscopy Images. <i>Microscopy and Microanalysis</i> , 2017 , 23, 140-141	0.5	2
15	Control of capillary hydraulic conductivity via membrane potential-dependent changes in Ca ²⁺ influx. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 1992 , 262, H144-8	5.2	2
14	Mosaicing of Dynamic Mesentery Video with Gradient Blending 2020 ,		2
13	Patch-Based Semantic Segmentation for Detecting Arterioles and Venules in Epifluorescence Imagery 2018 , 2018,		2
12	Microvascular Permeability in Inflammation 2001 , 65-79		1
11	Microvascular Sex- and Age- Dependent Phosphodiesterase Expression. <i>Frontiers in Aging</i> , 2021 , 2,	2.5	1
10	Multi-focus Image Fusion for Confocal Microscopy Using U-Net Regression Map 2021 , 2020, 4317-4323		1

- 9 Acute change in plasma estradiol by insulin in male rats. *FASEB Journal*, **2007**, 21, A488 0.9
- 8 Liposomal preparation for the in vivo monitoring of osmolality. *FASEB Journal*, **2008**, 22, 927.4 0.9
- 7 Modification of a calcein-based assay for monitoring proteolytic activity in tissue suffusate. *FASEB Journal*, **2008**, 22, 927.5 0.9
- 6 Sexual and Maturational Difference in Phosphodiesterase mRNA Expression in Rat Skeletal Muscle Microvascular Endothelial Cells. *FASEB Journal*, **2008**, 22, 1145.4 0.9
- 5 The Lymphatic Vasculature as a Participant in Microvascular Exchange. *Annual Update in Intensive Care and Emergency Medicine*, **2011**, 287-296 0.2
- 4 Estrogen-dependent regulation of endothelial connexin 43. *FASEB Journal*, **2012**, 26, lb606 0.9
- 3 Sex-specific endothelial cell response to insulin. *FASEB Journal*, **2013**, 27, 678.4 0.9
- 2 Quantitative Study of the Coupling Among Cardiovascular System, Lymphatic System and Interstitial Space. *Springer Proceedings in Mathematics and Statistics*, **2021**, 579-589 0.2
- 1 Fluid and protein exchange in microvascular networks: Importance of modelling heterogeneity in geometrical and biophysical properties. *Journal of Physiology*, **2021**, 599, 4597-4624 3.9