John C Chappell

List of Publications by Year
in descending order

34 papers	1,459 citations	361045 20 h-index	476904 29 g-index
35 all docs	35 docs citations	35 times ranked	1796 citing authors

#	Article	IF	Citations
1	Pericyte Progenitor Coupling to the Emerging Endothelium During Vasculogenesis via Connexin 43. Arteriosclerosis, Thrombosis, and Vascular Biology, 2022, 42, ATVBAHA121317324.	1.1	16
2	The cerebral microvasculature: Basic and clinical perspectives on stroke and glioma. Microcirculation, 2021, 28, e12671.	1.0	5
3	Pericyte migration and proliferation are tightly synchronized to endothelial cell sprouting dynamics. Integrative Biology (United Kingdom), 2021, 13, 31-43.	0.6	19
4	Pericytes in Vascular Development. Current Tissue Microenvironment Reports, 2020, 1, 143-154.	1.3	15
5	Specific labeling of synaptic schwann cells reveals unique cellular and molecular features. ELife, 2020, 9, .	2.8	45
6	Applications of Ultrasound to Stimulate Therapeutic Revascularization. International Journal of Molecular Sciences, 2019, 20, 3081.	1.8	15
7	Blood Vessel Patterning on Retinal Astrocytes Requires Endothelial Flt-1 (VEGFR-1). Journal of Developmental Biology, 2019, 7, 18.	0.9	12
8	The pericyte microenvironment during vascular development. Microcirculation, 2019, 26, e12554.	1.0	42
9	Microvascular bioengineering: a focus on pericytes. Journal of Biological Engineering, 2019, 13, 26.	2.0	31
10	Excess vascular endothelial growth factor-A disrupts pericyte recruitment during blood vessel formation. Angiogenesis, 2019, 22, 167-183.	3.7	53
11	Hypoxia, angiogenesis, and metabolism in the hereditary kidney cancers. Journal of Clinical Investigation, 2019, 129, 442-451.	3.9	76
12	Establishment and characterization of an embryonic pericyte cell line. Microcirculation, 2018, 25, e12461.	1.0	14
13	Von Hippel-Lindau mutations disrupt vascular patterning and maturation via Notch. JCI Insight, 2018, 3, .	2.3	19
14	Agentâ€Based Model of Pericyte Response to Plateletâ€Derived Growth Factorâ€BB from Sprouting Endothelial Cells in the Developing Mouse Retina. FASEB Journal, 2018, 32, 708.2.	0.2	0
15	Agent Based Model of Endothelial Cell and Pericyte Interactions During Angiogenesis in the Germinal Matrix. FASEB Journal, 2018, 32, 573.1.	0.2	0
16	Blood vessel anastomosis is spatially regulated by Flt1 during angiogenesis. Development (Cambridge), 2017, 144, 889-896.	1.2	46
17	Agentâ€based computational model of retinal angiogenesis simulates microvascular network morphology as a function of pericyte coverage. Microcirculation, 2017, 24, e12393.	1.0	34
18	Flt-1 (VEGFR-1) coordinates discrete stages of blood vessel formation. Cardiovascular Research, 2016, 111, 84-93.	1.8	56

#	Article	IF	Citations
19	Flt-1 (Vascular Endothelial Growth Factor Receptor-1) Is Essential for the Vascular Endothelial Growth Factorâ€"Notch Feedback Loop During Angiogenesis. Arteriosclerosis, Thrombosis, and Vascular Biology, 2013, 33, 1952-1959.	1.1	42
20	How Blood Vessel Networks Are Made and Measured. Cells Tissues Organs, 2012, 195, 94-107.	1.3	47
21	Computational Modeling of Interacting VEGF and Soluble VEGF Receptor Concentration Gradients. Frontiers in Physiology, 2011, 2, 62.	1.3	46
22	Regulation of blood vessel sprouting. Seminars in Cell and Developmental Biology, 2011, 22, 1005-1011.	2.3	82
23	The Ras Activator RasGRP3 Mediates Diabetes-Induced Embryonic Defects and Affects Endothelial Cell Migration. Circulation Research, 2011, 108, 1199-1208.	2.0	19
24	Variations in Tip Cell Proximity and sFlt1 Gradients Alter VEGF Receptor Activation in a Computational Model. FASEB Journal, 2011, 25, 1091.11.	0.2	0
25	Vascular Development. Current Topics in Developmental Biology, 2010, 90, 43-72.	1.0	55
26	Local Guidance of Emerging Vessel Sprouts Requires Soluble Flt-1. Developmental Cell, 2009, 17, 377-386.	3.1	213
27	Targeted Delivery of Nanoparticles Bearing Fibroblast Growth Factorâ€2 by Ultrasonic Microbubble Destruction for Therapeutic Arteriogenesis. Small, 2008, 4, 1769-1777.	5.2	83
28	The VEGF receptor Flt-1 spatially modulates Flk-1 signaling and blood vessel branching. Journal of Cell Biology, 2008, 181, 847-858.	2.3	161
29	Ultrasonic Microbubble Destruction Stimulates Therapeutic Arteriogenesis Via the CD18-Dependent Recruitment of Bone Marrowâ€"Derived Cells. Arteriosclerosis, Thrombosis, and Vascular Biology, 2008, 28, 1117-1122.	1.1	29
30	The VEGF receptor Flt-1 spatially modulates Flk-1 signaling and blood vessel branching. Journal of Experimental Medicine, 2008, 205, i16-i16.	4.2	0
31	Bioengineering Angiogenesis: Novel Approaches to Stimulating Microvessel Growth and Remodeling. , 2006, , 125-157.		0
32	Targeted Therapeutic Applications of Acoustically Active Microspheres in the Microcirculation. Microcirculation, 2006, 13, 57-70.	1.0	30
33	Ultrasound-microbubble-induced neovascularization in mouse skeletal muscle. Ultrasound in Medicine and Biology, 2005, 31, 1411-1422.	0.7	36
34	Influence of injection site, microvascular pressureand ultrasound variables on microbubble-mediated delivery of microspheres to muscle. Journal of the American College of Cardiology, 2002, 39, 726-731.	1.2	118