Vinod Suresh

List of Publications by Year
in descending order

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		516710	345221
47	1,314	16	36
papers	citations	h-index	g-index

54	54	54	2019
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Noninvasive Assessment of Collagen Gel Microstructure and Mechanics Using Multiphoton Microscopy. Biophysical Journal, 2007, 92, 2212-2222.	0.5	321
2	The Effect of Matrix Density on the Regulation of 3-D Capillary Morphogenesis. Biophysical Journal, 2008, 94, 1930-1941.	0.5	234
3	Image Correlation Spectroscopy of Multiphoton Images Correlates with Collagen Mechanical Properties. Biophysical Journal, 2008, 94, 2361-2373.	0.5	168
4	An Optimised Human Cell Culture Model for Alveolar Epithelial Transport. PLoS ONE, 2016, 11, e0165225.	2.5	88
5	Measurement of IL-13â€“Induced iNOS-Derived Gas Phase Nitric Oxide in Human Bronchial Epithelial Cells. American Journal of Respiratory Cell and Molecular Biology, 2007, 37, 97-104.	2.9	87
6	Nitric oxide gas phase release in human small airway epithelial cells. Respiratory Research, 2009, 10, 3.	3.6	45
7	Roadmap for cardiovascular circulation model. Journal of Physiology, 2016, 594, 6909-6928.	2.9	33
8	Effect of heterogeneous ventilation and nitric oxide production on exhaled nitric oxide profiles. Journal of Applied Physiology, 2008, 104, 1743-1752.	2.5	27
9	The effect of gravity on liquid plug propagation in a two-dimensional channel. Physics of Fluids, 2005, 17, 031507.	4.0	26
10	A novel three-dimensional model to quantify metastatic melanoma invasion. Molecular Cancer Therapeutics, 2007, 6, 552-561.	4.1	25
11	Peristaltic flow in the glymphatic system. Scientific Reports, 2020, 10, 21065.	3.3	25
12	Effect of Gravity on Liquid Plug Transport Through an Airway Bifurcation Model. Journal of Biomechanical Engineering, 2005, 127, 798-806.	1.3	22
13	An Experimental and Numerical Investigation of CO2 Distribution in the Upper Airways During Nasal High Flow Therapy. Annals of Biomedical Engineering, 2016, 44, 3007-3019.	2.5	22
14	Arteries dominate volume changes during brief functional hyperemia: Evidence from mathematical modelling. NeuroImage, 2012, 62, 482-492.	4.2	19
15	Using CellML with OpenCMISS to Simulate Multi-Scale Physiology. Frontiers in Bioengineering and Biotechnology, 2015, 2, 79.	4.1	19
16	Stability of time-modulated electroosmotic flow. Physics of Fluids, 2004, 16, 2349-2356.	4.0	18
17	Pulsatile flow and mass transport past a circular cylinder. Physics of Fluids, 2006, 18, 013102.	4.0	15
18	Multiscale Modeling of Intracranial Aneurysms: Cell Signaling, Hemodynamics, and Remodeling. IEEE Transactions on Biomedical Engineering, 2011, 58, 2974-2977.	4.2	12

#	Article	IF	Citations
19	Resonant thermocapillary and buoyant flows with finite frequency gravity modulation. Physics of Fluids, 1999, 11, 2565-2576.	4.0	10
20	Extra Permeability is Required to Model Dynamic Oxygen Measurements: Evidence for Functional Recruitment?. Journal of Cerebral Blood Flow and Metabolism, 2013, 33, 1402-1411.	4.3	9
21	A Mathematical Model of Alveolar Gas Exchange in Partial Liquid Ventilation. Journal of Biomechanical Engineering, 2005, 127, 46-59.	1.3	8
22	Make it simple: long-term stable gradient generation in a microfluidic microdevice. Biomedical Microdevices, 2019, 21, 77.	2.8	8
23	Computational Modeling of Glucose Uptake in the Enterocyte. Frontiers in Physiology, 2019, 10, 380.	2.8	7
24	Experimental and Computational Studies of Peristaltic Flow in a Duodenal Model. Fluids, 2022, 7, 40.	1.7	7
25	Computational modeling of epithelial fluid and ion transport in the parotid duct after transfection of human aquaporin-1. American Journal of Physiology - Renal Physiology, 2017, 312, G153-G163.	3.4	6
26	Stability of return thermocapillary flows under gravity modulation. Physics of Fluids, 2001, 13, 3155-3167.	4.0	5
27	Improving estimates of the cerebral metabolic rate of oxygen from optical imaging data. NeuroImage, 2015, 106, 101-110.	4.2	5
28	Development of an in situ procedure to evaluate the reticulo-rumen morphology of sheep selected for divergent methane emissions. Animal, 2019, 13, 542-548.	3.3	5
29	Computational Modelling of Glucose Uptake by SGLT1 and Apical GLUT2 in the Enterocyte. Frontiers in Physiology, 2021, 12, 699152.	2.8	5
30	Modelling Flow and Mixing in the Proximal Small Intestine. , 2020, 2020, 2496-2499.		4
31	Influence of endothelial glycocalyx layer microstructure upon its role as a mechanotransducer. Journal of Fluid Mechanics, 2020, 893, .	3.4	4
32	Development of a numerical model of surgical smoke during laparoscopy. International Journal of Heat and Mass Transfer, 2021, 175, 121253.	4.8	4
33	A Novel Method for Time-Dependent Numerical Modeling of Gastric Motility Directly from Magnetic Resonance Imaging*. , 2020, 2020, 2384-2387.		3
34	Permeability Properties of an In Vitro Model of the Alveolar Epithelium. Cellular and Molecular Bioengineering, 2021, 14, 653-659.	2.1	3
35	Using flow simulation to inform the design and placement of remediation units in rivers. Journal of the Royal Society of New Zealand, 2021, 51, 212-241.	1.9	3
36	A Mathematical Model of Salivary Gland Duct Cells. Bulletin of Mathematical Biology, 2022, 84, .	1.9	3

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37	Effect of sedatives on rumen motility in sheep. Small Ruminant Research, 2021, 196, 106284.	1.2	2
38	Modelling uptake and transport of therapeutic agents through the lymphatic system. Computer Methods in Biomechanics and Biomedical Engineering, 2022, 25, 861-874.	1.6	2
39	Development of closed-loop modelling framework for adaptive respiratory pacemakers. Computers in Biology and Medicine, 2022, 141, 105136.	7.0	2
40	Passive mechanical properties of ovine rumen tissue. International Journal for Computational Methods in Engineering Science and Mechanics, 2016, 17, 156-164.	2.1	1
41	Importance of irrotational components of swimming flows on the stability of a suspension of weakly-squirming microorganisms. IMA Journal of Applied Mathematics, 2018, 83, 720-742.	1.6	0
42	A formal analysis approach for verifying the design of respiratory pacing devices. , 2019, , .		0
43	Activity of ENaC-activating serine proteases in human alveolar epithelial cells. , 2020, , .		0
44	Computational Modelling of Glucose Uptake in the Enterocyte. Physiome, 2020, , .	0.3	0
45	Computational Modelling of Glucose Uptake in the Enterocyte. Physiome, 2022, , .	0.3	0
46	Computational Modelling of Glucose Uptake in the Enterocyte. Physiome, 2022, , .	0.3	0
47	Computational Modelling of Glucose Uptake in the Enterocyte. Physiome, 2022, , .	0.3	0