

# Vinod Suresh

## List of Publications by Year in descending order

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Version: 2024-02-01

47  
papers

1,314  
citations

516710

16  
h-index

345221

36  
g-index

54  
all docs

54  
docs citations

54  
times ranked

2019  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Development of closed-loop modelling framework for adaptive respiratory pacemakers. Computers in Biology and Medicine, 2022, 141, 105136.	7.0	2
3	Computational Modelling of Glucose Uptake in the Enterocyte. Physiome, 2022, , .	0.3	0
4	Computational Modelling of Glucose Uptake in the Enterocyte. Physiome, 2022, , .	0.3	0
5	Computational Modelling of Glucose Uptake in the Enterocyte. Physiome, 2022, , .	0.3	0
6	Experimental and Computational Studies of Peristaltic Flow in a Duodenal Model. Fluids, 2022, 7, 40.	1.7	7
7	A Mathematical Model of Salivary Gland Duct Cells. Bulletin of Mathematical Biology, 2022, 84, .	1.9	3
8	Effect of sedatives on rumen motility in sheep. Small Ruminant Research, 2021, 196, 106284.	1.2	2
9	Permeability Properties of an In Vitro Model of the Alveolar Epithelium. Cellular and Molecular Bioengineering, 2021, 14, 653-659.	2.1	3
10	Development of a numerical model of surgical smoke during laparoscopy. International Journal of Heat and Mass Transfer, 2021, 175, 121253.	4.8	4
11	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
12	Computational Modelling of Glucose Uptake by SGLT1 and Apical GLUT2 in the Enterocyte. Frontiers in Physiology, 2021, 12, 699152.	2.8	5
13	A Novel Method for Time-Dependent Numerical Modeling of Gastric Motility Directly from Magnetic Resonance Imaging*. , 2020, 2020, 2384-2387.		3
14	Modelling Flow and Mixing in the Proximal Small Intestine. , 2020, 2020, 2496-2499.		4
15	Peristaltic flow in the glymphatic system. Scientific Reports, 2020, 10, 21065.	3.3	25
16	Influence of endothelial glycocalyx layer microstructure upon its role as a mechanotransducer. Journal of Fluid Mechanics, 2020, 893, .	3.4	4
17	Activity of ENaC-activating serine proteases in human alveolar epithelial cells. , 2020, , .		0
18	Computational Modelling of Glucose Uptake in the Enterocyte. Physiome, 2020, , .	0.3	0

#	ARTICLE	IF	CITATIONS
19	Development of an in situ procedure to evaluate the reticulo-rumen morphology of sheep selected for divergent methane emissions. <i>Animal</i> , 2019, 13, 542-548.	3.3	5
20	Make it simple: long-term stable gradient generation in a microfluidic microdevice. <i>Biomedical Microdevices</i> , 2019, 21, 77.	2.8	8
21	Computational Modeling of Glucose Uptake in the Enterocyte. <i>Frontiers in Physiology</i> , 2019, 10, 380.	2.8	7
22	A formal analysis approach for verifying the design of respiratory pacing devices. , 2019, , .		0
23	Importance of irrotational components of swimming flows on the stability of a suspension of weakly-squirming microorganisms. <i>IMA Journal of Applied Mathematics</i> , 2018, 83, 720-742.	1.6	0
24	Computational modeling of epithelial fluid and ion transport in the parotid duct after transfection of human aquaporin-1. <i>American Journal of Physiology - Renal Physiology</i> , 2017, 312, G153-G163.	3.4	6
25	An Experimental and Numerical Investigation of CO2 Distribution in the Upper Airways During Nasal High Flow Therapy. <i>Annals of Biomedical Engineering</i> , 2016, 44, 3007-3019.	2.5	22
26	Roadmap for cardiovascular circulation model. <i>Journal of Physiology</i> , 2016, 594, 6909-6928.	2.9	33
27	Passive mechanical properties of ovine rumen tissue. <i>International Journal for Computational Methods in Engineering Science and Mechanics</i> , 2016, 17, 156-164.	2.1	1
28	An Optimised Human Cell Culture Model for Alveolar Epithelial Transport. <i>PLoS ONE</i> , 2016, 11, e0165225.	2.5	88
29	Using CellML with OpenCMISS to Simulate Multi-Scale Physiology. <i>Frontiers in Bioengineering and Biotechnology</i> , 2015, 2, 79.	4.1	19
30	Improving estimates of the cerebral metabolic rate of oxygen from optical imaging data. <i>NeuroImage</i> , 2015, 106, 101-110.	4.2	5
31	Extra Permeability is Required to Model Dynamic Oxygen Measurements: Evidence for Functional Recruitment?. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2013, 33, 1402-1411.	4.3	9
32	Arteries dominate volume changes during brief functional hyperemia: Evidence from mathematical modelling. <i>NeuroImage</i> , 2012, 62, 482-492.	4.2	19
33	Multiscale Modeling of Intracranial Aneurysms: Cell Signaling, Hemodynamics, and Remodeling. <i>IEEE Transactions on Biomedical Engineering</i> , 2011, 58, 2974-2977.	4.2	12
34	Nitric oxide gas phase release in human small airway epithelial cells. <i>Respiratory Research</i> , 2009, 10, 3.	3.6	45
35	Image Correlation Spectroscopy of Multiphoton Images Correlates with Collagen Mechanical Properties. <i>Biophysical Journal</i> , 2008, 94, 2361-2373.	0.5	168
36	The Effect of Matrix Density on the Regulation of 3-D Capillary Morphogenesis. <i>Biophysical Journal</i> , 2008, 94, 1930-1941.	0.5	234

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37	Effect of heterogeneous ventilation and nitric oxide production on exhaled nitric oxide profiles. <i>Journal of Applied Physiology</i> , 2008, 104, 1743-1752.	2.5	27
38	A novel three-dimensional model to quantify metastatic melanoma invasion. <i>Molecular Cancer Therapeutics</i> , 2007, 6, 552-561.	4.1	25
39	Measurement of IL-13-Induced iNOS-Derived Gas Phase Nitric Oxide in Human Bronchial Epithelial Cells. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2007, 37, 97-104.	2.9	87
40	Noninvasive Assessment of Collagen Gel Microstructure and Mechanics Using Multiphoton Microscopy. <i>Biophysical Journal</i> , 2007, 92, 2212-2222.	0.5	321
41	Pulsatile flow and mass transport past a circular cylinder. <i>Physics of Fluids</i> , 2006, 18, 013102.	4.0	15
42	The effect of gravity on liquid plug propagation in a two-dimensional channel. <i>Physics of Fluids</i> , 2005, 17, 031507.	4.0	26
43	A Mathematical Model of Alveolar Gas Exchange in Partial Liquid Ventilation. <i>Journal of Biomechanical Engineering</i> , 2005, 127, 46-59.	1.3	8
44	Effect of Gravity on Liquid Plug Transport Through an Airway Bifurcation Model. <i>Journal of Biomechanical Engineering</i> , 2005, 127, 798-806.	1.3	22
45	Stability of time-modulated electroosmotic flow. <i>Physics of Fluids</i> , 2004, 16, 2349-2356.	4.0	18
46	Stability of return thermocapillary flows under gravity modulation. <i>Physics of Fluids</i> , 2001, 13, 3155-3167.	4.0	5
47	Resonant thermocapillary and buoyant flows with finite frequency gravity modulation. <i>Physics of Fluids</i> , 1999, 11, 2565-2576.	4.0	10