

Harikrishnan Parameswaran

List of Publications by Year in descending order

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Version: 2024-02-01

19
papers

724
citations

686830

13
h-index

839053

18
g-index

20
all docs

20
docs citations

20
times ranked

1249
citing authors

#	ARTICLE	IF	CITATIONS
1	Stiffening of the extracellular matrix is a sufficient condition for airway hyperreactivity. <i>Journal of Applied Physiology</i> , 2021, 130, 1635-1645.	1.2	13
2	Intercellular communication controls agonist-induced calcium oscillations independently of gap junctions in smooth muscle cells. <i>Science Advances</i> , 2020, 6, eaba1149.	4.7	10
3	Micropatterning Enhances Intercellular Coordination and Collective Cellular Contraction. , 2020, , .		0
4	Intercellular Adhesion Stiffness Moderates Cell Decoupling as a Function of Substrate Stiffness. <i>Biophysical Journal</i> , 2020, 119, 243-257.	0.2	7
5	Extracellular matrix stiffness regulates human airway smooth muscle contraction by altering the cell-cell coupling. <i>Scientific Reports</i> , 2019, 9, 9564.	1.6	48
6	CT Imaging-Based Low-Attenuation Super Clusters in Three Dimensions and the Progression of Emphysema. <i>Chest</i> , 2019, 155, 79-87.	0.4	14
7	Mechanical Forces Accelerate Collagen Digestion by Bacterial Collagenase in Lung Tissue Strips. <i>Frontiers in Physiology</i> , 2016, 7, 287.	1.3	29
8	Regulatory Roles of Fluctuation-Driven Mechanotransduction in Cell Function. <i>Physiology</i> , 2016, 31, 346-358.	1.6	21
9	Mitochondrial iron chelation ameliorates cigarette smoke-induced bronchitis and emphysema in mice. <i>Nature Medicine</i> , 2016, 22, 163-174.	15.2	206
10	Scale dependence of structure-function relationship in the emphysematous mouse lung. <i>Frontiers in Physiology</i> , 2015, 6, 146.	1.3	20
11	Fluctuation-driven mechanotransduction regulates mitochondrial-network structure and function. <i>Nature Materials</i> , 2015, 14, 1049-1057.	13.3	60
12	Can breathing-like pressure oscillations reverse or prevent narrowing of small intact airways?. <i>Journal of Applied Physiology</i> , 2015, 119, 47-54.	1.2	19
13	Lung structure and function in elastase-treated rats: A follow-up study. <i>Respiratory Physiology and Neurobiology</i> , 2015, 215, 13-19.	0.7	6
14	Computational modeling helps uncover mechanisms related to the progression of emphysema. <i>Drug Discovery Today: Disease Models</i> , 2015, 15, 9-15.	1.2	5
15	Linking Ventilation Heterogeneity Quantified via Hyperpolarized 3He MRI to Dynamic Lung Mechanics and Airway Hyperresponsiveness. <i>PLoS ONE</i> , 2015, 10, e0142738.	1.1	16
16	A computational model of the response of adherent cells to stretch and changes in substrate stiffness. <i>Journal of Applied Physiology</i> , 2014, 116, 825-834.	1.2	38
17	Linking Microscopic Spatial Patterns of Tissue Destruction in Emphysema to Macroscopic Decline in Stiffness Using a 3D Computational Model. <i>PLoS Computational Biology</i> , 2011, 7, e1001125.	1.5	39
18	Three-dimensional measurement of alveolar airspace volumes in normal and emphysematous lungs using micro-CT. <i>Journal of Applied Physiology</i> , 2009, 107, 583-592.	1.2	62

#	ARTICLE	IF	CITATIONS
19	Quantitative characterization of airspace enlargement in emphysema. Journal of Applied Physiology, 2006, 100, 186-193.	1.2	111