

Daniel Isabey

List of Publications by Year in descending order

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Version: 2024-02-01

57
papers

2,078
citations

279701

23
h-index

233338

45
g-index

58
all docs

58
docs citations

58
times ranked

2187
citing authors

#	ARTICLE	IF	CITATIONS
1	Propagation and rupture of elastoviscoplastic liquid plugs in airway reopening model. Journal of Non-Newtonian Fluid Mechanics, 2022, 300, 104718.	1.0	12
2	Pulmonary Interstitial Matrix and Lung Fluid Balance From Normal to the Acutely Injured Lung. Frontiers in Physiology, 2021, 12, 781874.	1.3	24
3	Functional and structural consequences of epithelial cell invasion by Bordetella pertussis adenylate cyclase toxin. PLoS ONE, 2020, 15, e0228606.	1.1	9
4	Pathogenesis of chronic rhinosinusitis with nasal polyps: role of IL-6 in airway epithelial cell dysfunction. Journal of Translational Medicine, 2020, 18, 136.	1.8	24
5	Effects of Surface Tension and Yield Stress on Mucus Plug Rupture: A Numerical Study. Journal of Biomechanical Engineering, 2020, 142, .	0.6	17
6	Title is missing!. , 2020, 15, e0228606.		0
7	Title is missing!. , 2020, 15, e0228606.		0
8	Title is missing!. , 2020, 15, e0228606.		0
9	Title is missing!. , 2020, 15, e0228606.		0
10	Surfactant delivery in rat lungs: Comparing 3D geometrical simulation model with experimental instillation. PLoS Computational Biology, 2019, 15, e1007408.	1.5	18
11	FcRn-Dependent Transcytosis of Monoclonal Antibody in Human Nasal Epithelial Cells In Vitro: A Prerequisite for a New Delivery Route for Therapy?. International Journal of Molecular Sciences, 2019, 20, 1379.	1.8	22
12	Crackles and Wheezes: Agents of Injury?. Annals of the American Thoracic Society, 2019, 16, 967-969.	1.5	13
13	Microphysiological systems modeling acute respiratory distress syndrome that capture mechanical force-induced injury-inflammation-repair. APL Bioengineering, 2019, 3, 041503.	3.3	21
14	Perfluorocarbon induces alveolar epithelial cell response through structural and mechanical remodeling. Biomechanics and Modeling in Mechanobiology, 2018, 17, 961-973.	1.4	4
15	Steady displacement of long gas bubbles in channels and tubes filled by a Bingham fluid. Physical Review Fluids, 2018, 3, .	1.0	10
16	Did Reduced Alveolar Delivery of Surfactant Contribute to Negative Results in Adults with Acute Respiratory Distress Syndrome?. American Journal of Respiratory and Critical Care Medicine, 2017, 195, 538-540.	2.5	33
17	Characterisation of cellular adhesion reinforcement by multiple bond force spectroscopy in alveolar epithelial cells. Biology of the Cell, 2017, 109, 255-272.	0.7	3
18	Exposure to <i>Bordetella pertussis</i> adenylate cyclase toxin affects integrinâ€mediated adhesion and mechanics in alveolar epithelial cells. Biology of the Cell, 2017, 109, 293-311.	0.7	9

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19	A new index for characterizing micro-bead motion in a flow induced by ciliary beating: Part II, modeling. PLoS Computational Biology, 2017, 13, e1005552.	1.5	15
20	A new index for characterizing micro-bead motion in a flow induced by ciliary beating: Part I, experimental analysis. PLoS Computational Biology, 2017, 13, e1005605.	1.5	19
21	A Macroscopic Model for Simulating the Mucociliary Clearance in a Bronchial Bifurcation: The Role of Surface Tension. Journal of Biomechanical Engineering, 2016, 138, .	0.6	4
22	Splitting of a two-dimensional liquid plug at an airway bifurcation. Journal of Fluid Mechanics, 2016, 793, 1-20.	1.4	10
23	Multiscale evaluation of cellular adhesion alteration and cytoskeleton remodeling by magnetic bead twisting. Biomechanics and Modeling in Mechanobiology, 2016, 15, 947-963.	1.4	8
24	The Effect of Rib Shape on Stiffness. Stapp Car Crash Journal, 2016, 60, 11-24.	1.1	5
25	Three-dimensional model of surfactant replacement therapy. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 9287-9292.	3.3	66
26	Maximal efficiency of convective mixing occurs in mid acinus: A 3D-numerical analysis by an Eulerian approach. Journal of Aerosol Science, 2014, 76, 163-174.	1.8	3
27	Frictional resistance sheds light on the multicomponent nature of nasal obstruction: A combined in vivo and computational fluid dynamics study. Respiratory Physiology and Neurobiology, 2013, 188, 133-142.	0.7	8
28	Steady motion of Bingham liquid plugs in two-dimensional channels. Journal of Fluid Mechanics, 2012, 705, 258-279.	1.4	29
29	Particle capture into the lung made simple?. Journal of Applied Physiology, 2011, 110, 1664-1673.	1.2	19
30	Plastinated nasal model: a new concept of anatomically realistic cast. Rhinology, 2011, 49, 30-36.	0.7	27
31	Oxygen and carbon dioxide transport in time-dependent blood flow past fiber rectangular arrays. Physics of Fluids, 2009, 21, .	1.6	6
32	Cell mechanics of alveolar epithelial cells (AECs) and macrophages (AMs). Respiratory Physiology and Neurobiology, 2008, 163, 3-16.	0.7	33
33	Unsteady propagation of a liquid plug in a liquid-lined straight tube. Physics of Fluids, 2008, 20, 62104.	1.6	51
34	Nasal wall compliance in vasomotor rhinitis. Journal of Applied Physiology, 2006, 100, 107-111.	1.2	23
35	In Vitro Experiments and Numerical Simulations of Airflow in Realistic Nasal Airway Geometry. Annals of Biomedical Engineering, 2006, 34, 997-1007.	1.3	109
36	Sensitivity of alveolar macrophages to substrate mechanical and adhesive properties. Cytoskeleton, 2006, 63, 321-340.	4.4	111

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37	Frequency Response of a Viscoelastic Tensegrity Model: Structural Rearrangement Contribution to Cell Dynamics. <i>Journal of Biomechanical Engineering</i> , 2006, 128, 487-495.	0.6	34
38	Inspiratory flow in the nose: a model coupling flow and vasoerectile tissue distensibility. <i>Journal of Applied Physiology</i> , 2005, 98, 288-295.	1.2	43
39	A model of flow and surfactant transport in an oscillatory alveolus partially filled with liquid. <i>Physics of Fluids</i> , 2005, 17, 031510.	1.6	7
40	The steady propagation of a surfactant-laden liquid plug in a two-dimensional channel. <i>Physics of Fluids</i> , 2005, 17, 082102.	1.6	65
41	Apical rigidity of an epithelial cell monolayer evaluated by magnetic twisting cytometry: ICAM-1 versus integrin linkages to F-actin structure. <i>Clinical Hemorheology and Microcirculation</i> , 2005, 33, 277-91.	0.9	3
42	Effect of ventilation rate on instilled surfactant distribution in the pulmonary airways of rats. <i>Journal of Applied Physiology</i> , 2004, 97, 45-56.	1.2	27
43	Steady Propagation of a Liquid Plug in a Two-Dimensional Channel. <i>Journal of Biomechanical Engineering</i> , 2004, 126, 567-577.	0.6	80
44	Analysis of Nonlinear Responses of Adherent Epithelial Cells Probed by Magnetic Bead Twisting: A Finite Element Model Based on a Homogenization Approach. <i>Journal of Biomechanical Engineering</i> , 2004, 126, 685-698.	0.6	39
45	BIOFLUID MECHANICS IN FLEXIBLE TUBES. <i>Annual Review of Fluid Mechanics</i> , 2004, 36, 121-147.	10.8	379
46	Partitioning of Cortical and Deep Cytoskeleton Responses from Transient Magnetic Bead Twisting. <i>Annals of Biomedical Engineering</i> , 2003, 31, 1263-1278.	1.3	56
47	Nonlinear saturation of the Rayleigh instability due to oscillatory flow in a liquid-lined tube. <i>Journal of Fluid Mechanics</i> , 2003, 492, 251-270.	1.4	44
48	Cycle-induced flow and transport in a model of alveolar liquid lining. <i>Journal of Fluid Mechanics</i> , 2003, 483, 1-36.	1.4	8
49	Keratinocyte growth factor promotes cell motility during alveolar epithelial repair in vitro. <i>Experimental Cell Research</i> , 2003, 283, 215-229.	1.2	48
50	Time course of actin cytoskeleton stiffness and matrix adhesion molecules in human bronchial epithelial cell cultures. <i>Experimental Cell Research</i> , 2003, 287, 199-208.	1.2	23
51	Characterization of cytoskeleton mechanical properties and 3D-actin structure in twisted adherent epithelial cells. <i>Biorheology</i> , 2003, 40, 241-5.	1.2	14
52	Assessment of Mechanical Properties of Adherent Living Cells by Bead Micromanipulation: Comparison of Magnetic Twisting Cytometry vs Optical Tweezers. <i>Journal of Biomechanical Engineering</i> , 2002, 124, 408-421.	0.6	142
53	A Cellular Tensegrity Model to Analyse the Structural Viscoelasticity of the Cytoskeleton. <i>Journal of Theoretical Biology</i> , 2002, 218, 155-173.	0.8	98
54	Title is missing!. <i>Biomedical Microdevices</i> , 2002, 4, 141-149.	1.4	102

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55	Tensegrity behaviour of cortical and cytosolic cytoskeletal components in twisted living adherent cells. <i>Acta Biotheoretica</i> , 2002, 50, 331-356.	0.7	25
56	Steady-State Pleural Fluid Flow and Pressure and the Effects of Lung Buoyancy. <i>Journal of Biomechanical Engineering</i> , 2001, 123, 485-492.	0.6	9
57	Stiffening Response of a Cellular Tensegrity Model. <i>Journal of Theoretical Biology</i> , 1999, 196, 309-325.	0.8	67