Daniel Isabey

List of Publications by Year
in descending order

57	2,078	279701 23	233338 45
papers	citations	h-index	g-index

58	58	58	2187
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	BIOFLUID MECHANICS IN FLEXIBLE TUBES. Annual Review of Fluid Mechanics, 2004, 36, 121-147.	10.8	379
2	Assessment of Mechanical Properties of Adherent Living Cells by Bead Micromanipulation: Comparison of Magnetic Twisting Cytometry vs Optical Tweezers. Journal of Biomechanical Engineering, 2002, 124, 408-421.	0.6	142
3	Sensitivity of alveolar macrophages to substrate mechanical and adhesive properties. Cytoskeleton, 2006, 63, 321-340.	4.4	111
4	In Vitro Experiments and Numerical Simulations of Airflow in Realistic Nasal Airway Geometry. Annals of Biomedical Engineering, 2006, 34, 997-1007.	1.3	109
5	Title is missing!. Biomedical Microdevices, 2002, 4, 141-149.	1.4	102
6	A Cellular Tensegrity Model to Analyse the Structural Viscoelasticity of the Cytoskeleton. Journal of Theoretical Biology, 2002, 218, 155-173.	0.8	98
7	Steady Propagation of a Liquid Plug in a Two-Dimensional Channel. Journal of Biomechanical Engineering, 2004, 126, 567-577.	0.6	80
8	Stiffening Response of a Cellular Tensegrity Model. Journal of Theoretical Biology, 1999, 196, 309-325.	0.8	67
9	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
10	The steady propagation of a surfactant-laden liquid plug in a two-dimensional channel. Physics of Fluids, 2005, 17, 082102.	1.6	65
11	Partitioning of Cortical and Deep Cytoskeleton Responses from Transient Magnetic Bead Twisting. Annals of Biomedical Engineering, 2003, 31, 1263-1278.	1.3	56
12	Unsteady propagation of a liquid plug in a liquid-lined straight tube. Physics of Fluids, 2008, 20, 62104.	1.6	51
13	Keratinocyte growth factor promotes cell motility during alveolar epithelial repair in vitro. Experimental Cell Research, 2003, 283, 215-229.	1.2	48
14	Nonlinear saturation of the Rayleigh instability due to oscillatory flow in a liquid-lined tube. Journal of Fluid Mechanics, 2003, 492, 251-270.	1.4	44
15	Inspiratory flow in the nose: a model coupling flow and vasoerectile tissue distensibility. Journal of Applied Physiology, 2005, 98, 288-295.	1.2	43
16	Analysis of Nonlinear Responses of Adherent Epithelial Cells Probed by Magnetic Bead Twisting: A Finite Element Model Based on a Homogenization Approach. Journal of Biomechanical Engineering, 2004, 126, 685-698.	0.6	39
17	Frequency Response of a Viscoelastic Tensegrity Model: Structural Rearrangement Contribution to Cell Dynamics. Journal of Biomechanical Engineering, 2006, 128, 487-495.	0.6	34
18	Cell mechanics of alveolar epithelial cells (AECs) and macrophages (AMs). Respiratory Physiology and Neurobiology, 2008, 163, 3-16.	0.7	33

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19	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
20	Steady motion of Bingham liquid plugs in two-dimensional channels. Journal of Fluid Mechanics, 2012, 705, 258-279.	1.4	29
21	Effect of ventilation rate on instilled surfactant distribution in the pulmonary airways of rats. Journal of Applied Physiology, 2004, 97, 45-56.	1.2	27
22	Plastinated nasal model: a new concept of anatomically realistic cast. Rhinology, 2011, 49, 30-36.	0.7	27
23	Tensegrity behaviour of cortical and cytosolic cytoskeletal components in twisted living adherent cells. Acta Biotheoretica, 2002, 50, 331-356.	0.7	25
24	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
25	Pulmonary Interstitial Matrix and Lung Fluid Balance From Normal to the Acutely Injured Lung. Frontiers in Physiology, 2021, 12, 781874.	1.3	24
26	Time course of actin cytoskeleton stiffness and matrix adhesion molecules in human bronchial epithelial cell cultures. Experimental Cell Research, 2003, 287, 199-208.	1.2	23
27	Nasal wall compliance in vasomotor rhinitis. Journal of Applied Physiology, 2006, 100, 107-111.	1.2	23
28	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
29	Microphysiological systems modeling acute respiratory distress syndrome that capture mechanical force-induced injury-inflammation-repair. APL Bioengineering, 2019, 3, 041503.	3.3	21
30	Particle capture into the lung made simple?. Journal of Applied Physiology, 2011, 110, 1664-1673.	1.2	19
31	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
32	Surfactant delivery in rat lungs: Comparing 3D geometrical simulation model with experimental instillation. PLoS Computational Biology, 2019, 15, e1007408.	1.5	18
33	Effects of Surface Tension and Yield Stress on Mucus Plug Rupture: A Numerical Study. Journal of Biomechanical Engineering, 2020, 142, .	0.6	17
34	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
35	Characterization of cytoskeleton mechanical properties and 3D-actin structure in twisted adherent epithelial cells. Biorheology, 2003, 40, 241-5.	1.2	14
36	Crackles and Wheezes: Agents of Injury?. Annals of the American Thoracic Society, 2019, 16, 967-969.	1.5	13

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37	Propagation and rupture of elastoviscoplastic liquid plugs in airway reopening model. Journal of Non-Newtonian Fluid Mechanics, 2022, 300, 104718.	1.0	12
38	Splitting of a two-dimensional liquid plug at an airway bifurcation. Journal of Fluid Mechanics, 2016, 793, 1-20.	1.4	10
39	Steady displacement of long gas bubbles in channels and tubes filled by a Bingham fluid. Physical Review Fluids, 2018, 3, .	1.0	10
40	Steady-State Pleural Fluid Flow and Pressure and the Effects of Lung Buoyancy. Journal of Biomechanical Engineering, 2001, 123, 485-492.	0.6	9
41	Exposure to Bordetella pertussis adenylate cyclase toxin affects integrinâ€mediated adhesion and mechanics in alveolar epithelial cells. Biology of the Cell, 2017, 109, 293-311.	0.7	9
42	Functional and structural consequences of epithelial cell invasion by Bordetella pertussis adenylate cyclase toxin. PLoS ONE, 2020, 15, e0228606.	1.1	9
43	Cycle-induced flow and transport in a model of alveolar liquid lining. Journal of Fluid Mechanics, 2003, 483, 1-36.	1.4	8
44	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
45	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
46	A model of flow and surfactant transport in an oscillatory alveolus partially filled with liquid. Physics of Fluids, 2005, 17, 031510.	1.6	7
47	Oxygen and carbon dioxide transport in time-dependent blood flow past fiber rectangular arrays. Physics of Fluids, 2009, 21, .	1.6	6
48	The Effect of Rib Shape on Stiffness. Stapp Car Crash Journal, 2016, 60, 11-24.	1.1	5
49	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
50	Perfluorocarbon induces alveolar epithelial cell response through structural and mechanical remodeling. Biomechanics and Modeling in Mechanobiology, 2018, 17, 961-973.	1.4	4
51	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
52	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
53	Apical rigidity of an epithelial cell monolayer evaluated by magnetic twisting cytometry: ICAM-1 versus integrin linkages to F-actin structure. Clinical Hemorheology and Microcirculation, 2005, 33, 277-91.	0.9	3
54	Title is missing!. , 2020, 15, e0228606.		0

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55	Title is missing!. , 2020, 15, e0228606.		0
56	Title is missing!. , 2020, 15, e0228606.		0
57	Title is missing!. , 2020, 15, e0228606.		0