

Redouane Fodil

List of Publications by Year in descending order

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48
papers

1,531
citations

304743

22
h-index

302126

39
g-index

50
all docs

50
docs citations

50
times ranked

1710
citing authors

#	ARTICLE	IF	CITATIONS
1	Nanoscale mechanical properties of chitosan hydrogels as revealed by AFM. <i>Progress in Biomaterials</i> , 2020, 9, 187-201.	4.5	14
2	Phase-contrast helium-3 MRI of aerosol deposition in human airways. <i>NMR in Biomedicine</i> , 2015, 28, 180-187.	2.8	4
3	Description and Microbiology of Endotracheal Tube Biofilm in Mechanically Ventilated Subjects. <i>Respiratory Care</i> , 2015, 60, 21-29.	1.6	59
4	Giant scaffolding protein AHNK1 interacts with α -dystroglycan and controls motility and mechanical properties of schwann cells. <i>Glia</i> , 2014, 62, 1392-1406.	4.9	10
5	Frictional resistance sheds light on the multicomponent nature of nasal obstruction: A combined in vivo and computational fluid dynamics study. <i>Respiratory Physiology and Neurobiology</i> , 2013, 188, 133-142.	1.6	8
6	Force distribution on multiple bonds controls the kinetics of adhesion in stretched cells. <i>Journal of Biomechanics</i> , 2013, 46, 307-313.	2.1	10
7	Force control of endothelium permeability in mechanically stressed pulmonary micro-vascular endothelial cells. <i>Bio-Medical Materials and Engineering</i> , 2012, 22, 163-170.	0.6	6
8	Evaluation of the trachea and intrathoracic airways by the acoustic reflection method in children with cystic fibrosis. <i>Respiratory Physiology and Neurobiology</i> , 2012, 181, 74-78.	1.6	5
9	Analysis of the pharynx and the trachea by the acoustic reflection method in children: A pilot study. <i>Respiratory Physiology and Neurobiology</i> , 2011, 175, 228-233.	1.6	7
10	Comparison of patient-ventilator interfaces based on their computerized effective dead space. <i>Intensive Care Medicine</i> , 2011, 37, 257-262.	8.2	51
11	Micropatterned ECM substrates reveal complementary contribution of low and high affinity ligands to neurite outgrowth. <i>Cytoskeleton</i> , 2011, 68, 373-388.	2.0	22
12	CFD simulation of particle deposition in a reconstructed human oral extrathoracic airway for air and helium-oxygen mixtures. <i>Journal of Aerosol Science</i> , 2010, 41, 281-294.	3.8	58
13	Prestress and Adhesion Site Dynamics Control Cell Sensitivity to Extracellular Stiffness. <i>Biophysical Journal</i> , 2009, 96, 2009-2022.	0.5	38
14	Cell mechanics of alveolar epithelial cells (AECs) and macrophages (AMs). <i>Respiratory Physiology and Neurobiology</i> , 2008, 163, 3-16.	1.6	33
15	In vitro validation of computational fluid dynamic simulation in human proximal airways with hyperpolarized ^3He magnetic resonance phase-contrast velocimetry. <i>Journal of Applied Physiology</i> , 2007, 102, 2012-2023.	2.5	85
16	Nasal wall compliance in vasomotor rhinitis. <i>Journal of Applied Physiology</i> , 2006, 100, 107-111.	2.5	23
17	Bench Evaluation of Flow Limitation Detection by Automated Continuous Positive Airway Pressure Device. <i>Chest</i> , 2006, 130, 343-349.	0.8	33
18	Mechanisms of inspiratory and expiratory flow limitations during obstructive sleep apnoea. <i>Journal of Biomechanics</i> , 2006, 39, S442.	2.1	0

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19	In Vitro Experiments and Numerical Simulations of Airflow in Realistic Nasal Airway Geometry. <i>Annals of Biomedical Engineering</i> , 2006, 34, 997-1007.	2.5	109
20	Sensitivity of alveolar macrophages to substrate mechanical and adhesive properties. <i>Cytoskeleton</i> , 2006, 63, 321-340.	4.4	111
21	Phase-contrast velocimetry with hyperpolarized ³ He for in vitro and in vivo characterization of airflow. <i>Magnetic Resonance in Medicine</i> , 2006, 55, 1318-1325.	3.0	27
22	Inspiratory flow in the nose: a model coupling flow and vasoerectile tissue distensibility. <i>Journal of Applied Physiology</i> , 2005, 98, 288-295.	2.5	43
23	Simulateur morphofonctionnel des voies aëriennes supérieures et proximales. <i>IRBM News</i> , 2005, 26, 72-77.	0.1	1
24	Airflow modeling of steady inspiration in two realistic proximal airway trees reconstructed from human thoracic tomodensitometric images. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2005, 8, 267-277.	1.6	22
25	Biomécanique du couplage fluide-structures dans les voies aëriennes supérieures. <i>Houille Blanche</i> , 2005, 91, 49-55.	0.3	2
26	Exploration et modélisation de l'écoulement inspiratoire au passage des fosses nasales. <i>Houille Blanche</i> , 2005, 91, 43-48.	0.3	0
27	Dynamique des Fluides Biologiques. <i>Houille Blanche</i> , 2005, 91, 36-42.	0.3	0
28	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.	1.7	3
29	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.	1.3	39
30	Using hidden Markov models for sleep disordered breathing identification. <i>Simulation Modelling Practice and Theory</i> , 2004, 12, 117-128.	3.8	13
31	Upper airway calibre and impedance in patients with steinert's myotonic dystrophy. <i>Respiratory Physiology and Neurobiology</i> , 2004, 144, 99-107.	1.6	9
32	Long-term Effects of Different Humidification Systems on Endotracheal Tube Patency. <i>Anesthesiology</i> , 2004, 100, 782-788.	2.5	61
33	Partitioning of Cortical and Deep Cytoskeleton Responses from Transient Magnetic Bead Twisting. <i>Annals of Biomedical Engineering</i> , 2003, 31, 1263-1278.	2.5	56
34	Mechanical assessment by magnetocytometry of the cytosolic and cortical cytoskeletal compartments in adherent epithelial cells. <i>Biorheology</i> , 2003, 40, 235-40.	0.4	26
35	Characterization of cytoskeleton mechanical properties and 3D-actin structure in twisted adherent epithelial cells. <i>Biorheology</i> , 2003, 40, 241-5.	0.4	14
36	Segmental analysis of nasal cavity compliance by acoustic rhinometry. <i>Journal of Applied Physiology</i> , 2002, 93, 304-310.	2.5	19

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37	Specific Mechanical and Structural Responses of Cortical and Cytosolic Cytoskeleton in Living Adherent Cells.. JSME International Journal Series C-Mechanical Systems Machine Elements and Manufacturing, 2002, 45, 897-905.	0.3	2
38	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.	1.3	142
39	Tensegrity behaviour of cortical and cytosolic cytoskeletal components in twisted living adherent cells. Acta Biotheoretica, 2002, 50, 331-356.	1.5	25
40	Dual assessment of airway area profile and respiratory input impedance from a single transient wave. Journal of Applied Physiology, 2001, 90, 630-637.	2.5	17
41	Abdominal Muscle Activity in Sleep Apnea During Continuous Positive Airway Pressure Titration. Chest, 2001, 120, 390-396.	0.8	11
42	Helium-Oxygen in the Postextubation Period Decreases Inspiratory Effort. American Journal of Respiratory and Critical Care Medicine, 2001, 164, 633-637.	5.6	51
43	Inaccuracy of tidal volume delivered by home mechanical ventilators. European Respiratory Journal, 2000, 15, 338.	6.7	42
44	Noninvasive Ventilation with Helium-Oxygen in Acute Exacerbations of Chronic Obstructive Pulmonary Disease. American Journal of Respiratory and Critical Care Medicine, 2000, 161, 1191-1200.	5.6	149
45	Heavy snoring with upper airway resistance syndrome may induce intrinsic positive end-expiratory pressure. Journal of Applied Physiology, 1998, 85, 860-866.	2.5	19
46	Gravity effects on upper airway area and lung volumes during parabolic flight. Journal of Applied Physiology, 1998, 84, 1639-1645.	2.5	21
47	Interaction between steady flow and individualised compliant segments: Application to upper airways. Medical and Biological Engineering and Computing, 1997, 35, 638-648.	2.8	30
48	Modele Discretise du Couplage Fluide-Paroi: Application au Collapsus Des Voies Aeriennes Superieures. Archives of Physiology and Biochemistry, 1995, 103, C66-C66.	2.1	0