

Jan De Backer

List of Publications by Year in descending order

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papers

914
citations

471509
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44
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1322
citing authors

#	ARTICLE	IF	CITATIONS
1	Computed Tomographic Biomarkers in Idiopathic Pulmonary Fibrosis. The Future of Quantitative Analysis. American Journal of Respiratory and Critical Care Medicine, 2019, 199, 12-21.	5.6	102
2	A case series on lung deposition analysis of inhaled medication using functional imaging based computational fluid dynamics in asthmatic patients: effect of upper airway morphology and comparison with <i>in vivo</i> data. Inhalation Toxicology, 2012, 24, 81-88.	1.6	54
3	Assessment of Small Pulmonary Blood Vessels in COVID-19 Patients Using HRCT. Academic Radiology, 2020, 27, 1449-1455.	2.5	52
4	The acute effect of budesonide/formoterol in COPD: a multi-slice computed tomography and lung function study. European Respiratory Journal, 2012, 40, 298-305.	6.7	51
5	Novel Functional Imaging of Changes in Small Airways of Patients Treated with Extrafine Beclomethasone/Formoterol. Respiration, 2013, 86, 393-401.	2.6	47
6	The Effects of Extrafine Beclomethasone/Formoterol (BDP/F) on Lung Function, Dyspnea, Hyperinflation, and Airway Geometry in COPD Patients: Novel Insight Using Functional Respiratory Imaging. Journal of Aerosol Medicine and Pulmonary Drug Delivery, 2015, 28, 88-99.	1.4	46
7	Anatomical and functional changes in the upper airways of sleep apnea patients due to mandibular repositioning: A large scale study. Journal of Biomechanics, 2011, 44, 442-449.	2.1	42
8	The effect of roflumilast in addition to LABA/LAMA/ICS treatment in COPD patients. European Respiratory Journal, 2014, 44, 527-529.	6.7	38
9	Pulmonary vascular effects of pulsed inhaled nitric oxide in COPD patients with pulmonary hypertension. International Journal of COPD, 2016, Volume 11, 1533-1541.	2.3	34
10	Effect of high-dose N-acetylcysteine on airway geometry, inflammation, and oxidative stress in COPD patients. International Journal of COPD, 2013, 8, 569.	2.3	32
11	Comparison of CT-based Lobar Ventilation with ³ He MR Imaging Ventilation Measurements. Radiology, 2016, 278, 585-592.	7.3	32
12	Functional respiratory imaging identifies redistribution of pulmonary blood flow in patients with COVID-19. Thorax, 2021, 76, 182-184.	5.6	32
13	Altered pulmonary blood volume distribution as a biomarker for predicting outcomes in COVID-19 disease. European Respiratory Journal, 2021, 58, 2004133.	6.7	25
14	Functional respiratory imaging (FRI) for optimizing therapy development and patient care. Expert Review of Respiratory Medicine, 2016, 10, 193-206.	2.5	24
15	Machine Learning Algorithms Utilizing Quantitative CT Features May Predict Eventual Onset of Bronchiolitis Obliterans Syndrome After Lung Transplantation. Academic Radiology, 2018, 25, 1201-1212.	2.5	24
16	Image-based computational fluid dynamics in the lung: virtual reality or new clinical practice?. Wiley Interdisciplinary Reviews: Systems Biology and Medicine, 2017, 9, e1392.	6.6	21
17	A randomized study using functional respiratory imaging to characterize bronchodilator effects of glycopyrrrolate/formoterol fumarate delivered by a metered dose inhaler using co-suspension delivery technology in patients with COPD. International Journal of COPD, 2018, Volume 13, 2673-2684.	2.3	21
18	Machine Learning Algorithms Utilizing Functional Respiratory Imaging May Predict COPD Exacerbations. Academic Radiology, 2019, 26, 1191-1199.	2.5	20

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19	Pathophysiological mechanism of long-term noninvasive ventilation in stable hypercapnic patients with COPD using functional respiratory imaging. International Journal of COPD, 2017, Volume 12, 2197-2205.	2.3	18
20	<p>Airway Deposition of Extrafine Inhaled Triple Therapy in Patients with COPD: A Model Approach Based on Functional Respiratory Imaging Computer Simulations<p>. International Journal of COPD, 2020, Volume 15, 2433-2440.	2.3	17
21	Functional respiratory imaging to assess the interaction between systemic roflumilast and inhaled ICS/LABA/LAMA. International Journal of COPD, 2016, 11, 263.	2.3	16
22	Use of functional respiratory imaging to characterize the effect of inhalation profile and particle size on lung deposition of inhaled corticosteroid/long-acting Î2-agonists delivered <i>via</i> a pressurized metered-dose inhaler. Therapeutic Advances in Respiratory Disease, 2018, 12, 175346661876094.	2.6	16
23	Exploring PI3KÎ Molecular Pathways in Stable COPD and Following an Acute Exacerbation, Two Randomized Controlled Trials. International Journal of COPD, 2021, Volume 16, 1621-1636.	2.3	13
24	The Role of Functional Respiratory Imaging in Treatment Selection of Children With Obstructive Sleep Apnea and Down Syndrome. Journal of Clinical Sleep Medicine, 2018, 14, 651-659.	2.6	12
25	An Inhaled PI3KÎ Inhibitor Improves Recovery in Acutely Exacerbating COPD Patients: A Randomized Trial. International Journal of COPD, 2021, Volume 16, 1607-1619.	2.3	12
26	Particle Deposition in Airways of Chronic Respiratory Patients Exposed to an Urban Aerosol. Environmental Science & Technology, 2012, 46, 12162-12169.	10.0	11
27	Predicting the effect of treatment in paediatric OSA by clinical examination and functional respiratory imaging. Pediatric Pulmonology, 2017, 52, 799-805.	2.0	10
28	Functional imaging improves patient selection for mandibular advancement device treatment outcome in sleep-disordered breathing: a prospective study. Journal of Clinical Sleep Medicine, 2022, 18, 739-750.	2.6	9
29	Changes in ventilation–perfusion during and after an COPD exacerbation: an assessment using fluid dynamic modeling. International Journal of COPD, 2018, Volume 13, 833-842.	2.3	8
30	Functional respiratory imaging: heterogeneity of acute exacerbations of COPD. International Journal of COPD, 2018, Volume 13, 1783-1792.	2.3	8
31	Idiopathic pulmonary fibrosis: airway volume measurement identifies progressive disease on computed tomography scans. ERJ Open Research, 2020, 6, 00290-2019.	2.6	8
32	Interstitial lung disease in systemic sclerosis quantification of disease classification and progression with high-resolution computed tomography: An observational study. Journal of Scleroderma and Related Disorders, 2021, 6, 154-164.	1.7	8
33	Association of abnormal pulmonary vasculature on CT scan for COVID-19 infection with decreased diffusion capacity in follow up: A retrospective cohort study. PLoS ONE, 2021, 16, e0257892.	2.5	8
34	Efficacy of inhaled medications in asthma and COPD related to disease severity. Expert Opinion on Drug Delivery, 2016, 13, 1719-1727.	5.0	6
35	Functional respiratory imaging assessment of budesonide/glycopyrrolate/formoterol fumarate and glycopyrrolate/formoterol fumarate metered dose inhalers in patients with COPD: the value of inhaled corticosteroids. Respiratory Research, 2021, 22, 191.	3.6	6
36	Functional respiratory imaging assessment of glycopyrrolate and formoterol fumarate metered dose inhalers formulated using co-suspension delivery technology in patients with COPD. Therapeutic Advances in Respiratory Disease, 2020, 14, 175346662091699.	2.6	5

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37	Estimation of post-operative forced expiratory volume by functional respiratory imaging. European Respiratory Journal, 2015, 45, 544-546.	6.7	4
38	The short-term effects of ORKAMBI (lumacaftor/ivacaftor) on regional and distal lung structures using functional respiratory imaging. Therapeutic Advances in Respiratory Disease, 2021, 15, 175346662110467.	2.6	4
39	The role of ethnicity in the upper airway in a Belgian paediatric population with obstructive sleep apnoea. European Respiratory Journal, 2017, 50, 1701278.	6.7	2
40	Functional respiratory imaging of the airways in the acute respiratory distress syndrome. Anaesthesia, Critical Care & Pain Medicine, 2020, 39, 207-213.	1.4	2
41	Functional respiratory imaging in relation to classical outcome measures in cystic fibrosis: a cross-sectional study. BMC Pulmonary Medicine, 2021, 21, 256.	2.0	2
42	Lung deposition of inhaled once-daily long-acting muscarinic antagonists <i>via</i> standard jet nebulizer or dry powder inhaler, measured using functional respiratory imaging, in patients with chronic obstructive pulmonary disease. Therapeutic Advances in Respiratory Disease, 2022, 16, 175346662210775.	2.6	2
43	Expiratory CT scanning in COVID-19 patients: can we add useful data?. Jornal Brasileiro De Pneumologia, 2022, 48, e20210204.	0.7	1