

# Jan De Backer

## List of Publications by Year in descending order

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Version: 2024-02-01

43  
papers

914  
citations

471371

17  
h-index

477173

29  
g-index

44  
all docs

44  
docs citations

44  
times ranked

1322  
citing authors

#	ARTICLE	IF	CITATIONS
1	Computed Tomographic Biomarkers in Idiopathic Pulmonary Fibrosis. The Future of Quantitative Analysis. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2019, 199, 12-21.	2.5	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. <i>Inhalation Toxicology</i> , 2012, 24, 81-88.	0.8	54
3	Assessment of Small Pulmonary Blood Vessels in COVID-19 Patients Using HRCT. <i>Academic Radiology</i> , 2020, 27, 1449-1455.	1.3	52
4	The acute effect of budesonide/formoterol in COPD: a multi-slice computed tomography and lung function study. <i>European Respiratory Journal</i> , 2012, 40, 298-305.	3.1	51
5	Novel Functional Imaging of Changes in Small Airways of Patients Treated with Extrafine Beclomethasone/Formoterol. <i>Respiration</i> , 2013, 86, 393-401.	1.2	47
6	The Effects of Extrafine Beclometasone/Formoterol (BDP/F) on Lung Function, Dyspnea, Hyperinflation, and Airway Geometry in COPD Patients: Novel Insight Using Functional Respiratory Imaging. <i>Journal of Aerosol Medicine and Pulmonary Drug Delivery</i> , 2015, 28, 88-99.	0.7	46
7	Anatomical and functional changes in the upper airways of sleep apnea patients due to mandibular repositioning: A large scale study. <i>Journal of Biomechanics</i> , 2011, 44, 442-449.	0.9	42
8	The effect of roflumilast in addition to LABA/LAMA/ICS treatment in COPD patients. <i>European Respiratory Journal</i> , 2014, 44, 527-529.	3.1	38
9	Pulmonary vascular effects of pulsed inhaled nitric oxide in COPD patients with pulmonary hypertension. <i>International Journal of COPD</i> , 2016, Volume 11, 1533-1541.	0.9	34
10	Effect of high-dose N-acetylcysteine on airway geometry, inflammation, and oxidative stress in COPD patients. <i>International Journal of COPD</i> , 2013, 8, 569.	0.9	32
11	Comparison of CT-based Lobar Ventilation with <sup>3</sup> He MR Imaging Ventilation Measurements. <i>Radiology</i> , 2016, 278, 585-592.	3.6	32
12	Functional respiratory imaging identifies redistribution of pulmonary blood flow in patients with COVID-19. <i>Thorax</i> , 2021, 76, 182-184.	2.7	32
13	Altered pulmonary blood volume distribution as a biomarker for predicting outcomes in COVID-19 disease. <i>European Respiratory Journal</i> , 2021, 58, 2004133.	3.1	25
14	Functional respiratory imaging (FRI) for optimizing therapy development and patient care. <i>Expert Review of Respiratory Medicine</i> , 2016, 10, 193-206.	1.0	24
15	Machine Learning Algorithms Utilizing Quantitative CT Features May Predict Eventual Onset of Bronchiolitis Obliterans Syndrome After Lung Transplantation. <i>Academic Radiology</i> , 2018, 25, 1201-1212.	1.3	24
16	Image-based computational fluid dynamics in the lung: virtual reality or new clinical practice?. <i>Wiley Interdisciplinary Reviews: Systems Biology and Medicine</i> , 2017, 9, e1392.	6.6	21
17	A randomized study using functional respiratory imaging to characterize bronchodilator effects of glycopyrrolate/formoterol fumarate delivered by a metered dose inhaler using co-suspension delivery technology in patients with COPD. <i>International Journal of COPD</i> , 2018, Volume 13, 2673-2684.	0.9	21
18	Machine Learning Algorithms Utilizing Functional Respiratory Imaging May Predict COPD Exacerbations. <i>Academic Radiology</i> , 2019, 26, 1191-1199.	1.3	20

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19	Pathophysiological mechanism of long-term noninvasive ventilation in stable hypercapnic patients with COPD using functional respiratory imaging. <i>International Journal of COPD</i> , 2017, Volume 12, 2197-2205.	0.9	18
20	&lt;p&gt;Airway Deposition of Extrafine Inhaled Triple Therapy in Patients with COPD: A Model Approach Based on Functional Respiratory Imaging Computer Simulations&lt;p&gt;. <i>International Journal of COPD</i> , 2020, Volume 15, 2433-2440.	0.9	17
21	Functional respiratory imaging to assess the interaction between systemic roflumilast and inhaled ICS/LABA/LAMA. <i>International Journal of COPD</i> , 2016, 11, 263.	0.9	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 $\beta_2$ -agonists delivered <i>via</i> a pressurized metered-dose inhaler. <i>Therapeutic Advances in Respiratory Disease</i> , 2018, 12, 175346661876094.	1.0	16
23	Exploring PI3K $\gamma$ Molecular Pathways in Stable COPD and Following an Acute Exacerbation, Two Randomized Controlled Trials. <i>International Journal of COPD</i> , 2021, Volume 16, 1621-1636.	0.9	13
24	The Role of Functional Respiratory Imaging in Treatment Selection of Children With Obstructive Sleep Apnea and Down Syndrome. <i>Journal of Clinical Sleep Medicine</i> , 2018, 14, 651-659.	1.4	12
25	An Inhaled PI3K $\gamma$ Inhibitor Improves Recovery in Acutely Exacerbating COPD Patients: A Randomized Trial. <i>International Journal of COPD</i> , 2021, Volume 16, 1607-1619.	0.9	12
26	Particle Deposition in Airways of Chronic Respiratory Patients Exposed to an Urban Aerosol. <i>Environmental Science &amp; Technology</i> , 2012, 46, 12162-12169.	4.6	11
27	Predicting the effect of treatment in paediatric OSA by clinical examination and functional respiratory imaging. <i>Pediatric Pulmonology</i> , 2017, 52, 799-805.	1.0	10
28	Functional imaging improves patient selection for mandibular advancement device treatment outcome in sleep-disordered breathing: a prospective study. <i>Journal of Clinical Sleep Medicine</i> , 2022, 18, 739-750.	1.4	9
29	Changes in ventilation&ndash;perfusion during and after an COPD exacerbation: an assessment using fluid dynamic modeling. <i>International Journal of COPD</i> , 2018, Volume 13, 833-842.	0.9	8
30	Functional respiratory imaging: heterogeneity of acute exacerbations of COPD. <i>International Journal of COPD</i> , 2018, Volume 13, 1783-1792.	0.9	8
31	Idiopathic pulmonary fibrosis: airway volume measurement identifies progressive disease on computed tomography scans. <i>ERJ Open Research</i> , 2020, 6, 00290-2019.	1.1	8
32	Interstitial lung disease in systemic sclerosis quantification of disease classification and progression with high-resolution computed tomography: An observational study. <i>Journal of Scleroderma and Related Disorders</i> , 2021, 6, 154-164.	1.0	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. <i>PLoS ONE</i> , 2021, 16, e0257892.	1.1	8
34	Efficacy of inhaled medications in asthma and COPD related to disease severity. <i>Expert Opinion on Drug Delivery</i> , 2016, 13, 1719-1727.	2.4	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. <i>Respiratory Research</i> , 2021, 22, 191.	1.4	6
36	Functional respiratory imaging assessment of glycopyrrolate and formoterol fumarate metered dose inhalers formulated using co-suspension delivery technology in patients with COPD. <i>Therapeutic Advances in Respiratory Disease</i> , 2020, 14, 175346662091699.	1.0	5

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37	Estimation of post-operative forced expiratory volume by functional respiratory imaging. <i>European Respiratory Journal</i> , 2015, 45, 544-546.	3.1	4
38	The short-term effects of ORKAMBI (lumacaftor/ivacaftor) on regional and distal lung structures using functional respiratory imaging. <i>Therapeutic Advances in Respiratory Disease</i> , 2021, 15, 175346662110467.	1.0	4
39	The role of ethnicity in the upper airway in a Belgian paediatric population with obstructive sleep apnoea. <i>European Respiratory Journal</i> , 2017, 50, 1701278.	3.1	2
40	Functional respiratory imaging of the airways in the acute respiratory distress syndrome. <i>Anaesthesia, Critical Care &amp; Pain Medicine</i> , 2020, 39, 207-213.	0.6	2
41	Functional respiratory imaging in relation to classical outcome measures in cystic fibrosis: a cross-sectional study. <i>BMC Pulmonary Medicine</i> , 2021, 21, 256.	0.8	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. <i>Therapeutic Advances in Respiratory Disease</i> , 2022, 16, 175346662210775.	1.0	2
43	Expiratory CT scanning in COVID-19 patients: can we add useful data?. <i>Jornal Brasileiro De Pneumologia</i> , 2022, 48, e20210204.	0.4	1