Wim Vos

List of Publications by Year in descending order

50 papers	1,740 citations	257357 24 h-index	289141 40 g-index
51 all docs	51 docs citations	51 times ranked	1712 citing authors

#	Article	IF	Citations
1	A review in radiomics: Making personalized medicine a reality via routine imaging. Medicinal Research Reviews, 2022, 42, 426-440.	5.0	103
2	The Role of Imaging in the Detection of Non-COVID-19 Pathologies during the Massive Screening of the First Pandemic Wave. Diagnostics, 2022, 12, 1567.	1.3	1
3	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.	0.9	13
4	An Inhaled PI3KÎ´ Inhibitor Improves Recovery in Acutely Exacerbating COPD Patients: A Randomized Trial. International Journal of COPD, 2021, Volume 16, 1607-1619.	0.9	12
5	Privacy preserving distributed learning classifiers â€“ Sequential learning with small sets of data. Computers in Biology and Medicine, 2021, 136, 104716.	3.9	12
6	Development and Validation of an Automated Radiomic CT Signature for Detecting COVID-19. Diagnostics, 2021, 11, 41.	1.3	31
7	Functional respiratory imaging of the airways in the acute respiratory distress syndrome. Anaesthesia, Critical Care & Pain Medicine, 2020, 39, 207-213.	0.6	2
8	Machine Learning Algorithms Utilizing Functional Respiratory Imaging May Predict COPD Exacerbations. Academic Radiology, 2019, 26, 1191-1199.	1.3	20
9	Machine Learning Algorithms Utilizing Quantitative CT Features May Predict Eventual Onset of Bronchiolitis Obliterans Syndrome After Lung Transplantation. Academic Radiology, 2018, 25, 1201-1212.	1.3	24
10	A Multimodal Imaging Approach Based on Micro-CT and Fluorescence Molecular Tomography for Longitudinal Assessment of Bleomycin-Induced Lung Fibrosis in Mice. Journal of Visualized Experiments, 2018, , .	0.2	19
11	Use of functional respiratory imaging to characterize the effect of inhalation profile and particle size on lung deposition of inhaled corticosteroid/long-acting Î²2-agonists delivered via a pressurized metered-dose inhaler. Therapeutic Advances in Respiratory Disease, 2018, 12, 175346661876094.	1.0	16
12	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.	1.4	12
13	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. International Journal of COPD, 2018, Volume 13, 2673-2684.	0.9	21
14	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.	0.9	8
15	Functional respiratory imaging: heterogeneity of acute exacerbations of COPD. International Journal of COPD, 2018, Volume 13, 1783-1792.	0.9	8
16	Predicting the effect of treatment in paediatric OSA by clinical examination and functional respiratory imaging. Pediatric Pulmonology, 2017, 52, 799-805.	1.0	10
17	The role of ethnicity in the upper airway in a Belgian paediatric population with obstructive sleep apnoea. European Respiratory Journal, 2017, 50, 1701278.	3.1	2
18	Longitudinal assessment of bleomycin-induced lung fibrosis by Micro-CT correlates with histological evaluation in mice. Multidisciplinary Respiratory Medicine, 2017, 12, 8.	0.6	72

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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.	0.9	18
20	Pulmonary vascular effects of pulsed inhaled nitric oxide in COPD patients with pulmonary hypertension. International Journal of COPD, 2016, Volume 11, 1533-1541.	0.9	34
21	Functional respiratory imaging to assess the interaction between systemic roflumilast and inhaled ICS/LABA/LAMA. International Journal of COPD, 2016, 11, 263.	0.9	16
22	Functional respiratory imaging, regional strain, and expiratory time constants at three levels of positive end expiratory pressure in an exÂvivo pig model. Physiological Reports, 2016, 4, e13059.	0.7	3
23	Efficacy of inhaled medications in asthma and COPD related to disease severity. Expert Opinion on Drug Delivery, 2016, 13, 1719-1727.	2.4	6
24	Comparison of CT-based Lobar Ventilation with³He MR Imaging Ventilation Measurements. Radiology, 2016, 278, 585-592.	3.6	32
25	Functional respiratory imaging (FRI) for optimizing therapy development and patient care. Expert Review of Respiratory Medicine, 2016, 10, 193-206.	1.0	24
26	Dynamic flow characteristics in normal and asthmatic lungs. International Journal for Numerical Methods in Biomedical Engineering, 2015, 31, .	1.0	26
27	Patient-Specific Modeling of Regional Antibiotic Concentration Levels in Airways of Patients with Cystic Fibrosis: Are We Dosing High Enough?. PLoS ONE, 2015, 10, e0118454.	1.1	38
28	Upper airway imaging in pediatric obstructive sleep apnea syndrome. Sleep Medicine Reviews, 2015, 21, 59-71.	3.8	68
29	Estimation of post-operative forced expiratory volume by functional respiratory imaging. European Respiratory Journal, 2015, 45, 544-546.	3.1	4
30	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. Journal of Aerosol Medicine and Pulmonary Drug Delivery, 2015, 28, 88-99.	0.7	46
31	Functional Respiratory Imaging as a Tool to Personalize Respiratory Treatment in Patients With Unilateral Diaphragmatic Paralysis. Respiratory Care, 2014, 59, e127-e131.	0.8	7
32	A method for quantitative analysis of regional lung ventilation using deformable image registration of CT and hybrid hyperpolarized gas/1H MRI. Physics in Medicine and Biology, 2014, 59, 7267-7277.	1.6	24
33	The effect of roflumilast in addition to LABA/LAMA/ICS treatment in COPD patients. European Respiratory Journal, 2014, 44, 527-529.	3.1	38
34	Functional respiratory imaging as a tool to assess upper airway patency in children with obstructive sleep apnea. Sleep Medicine, 2013, 14, 433-439.	0.8	38
35	Novel Functional Imaging of Changes in Small Airways of Patients Treated with Extrafine Beclomethasone/Formoterol. Respiration, 2013, 86, 393-401.	1.2	47
36	Effect of high-dose N-acetylcysteine on airway geometry, inflammation, and oxidative stress in COPD patients. International Journal of COPD, 2013, 8, 569.	0.9	32

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37	The acute effect of budesonide/formoterol in COPD: a multi-slice computed tomography and lung function study. European Respiratory Journal, 2012, 40, 298-305.	3.1	51
38	Particle Deposition in Airways of Chronic Respiratory Patients Exposed to an Urban Aerosol. Environmental Science & Technology, 2012, 46, 12162-12169.	4.6	11
39	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 in vivo data. Inhalation Toxicology, 2012, 24, 81-88.	0.8	54
40	Acute effects of intrapulmonary percussive ventilation in COPD patients assessed by using conventional outcome parameters and a novel computational fluid dynamics technique. International Journal of COPD, 2012, 7, 667.	0.9	17
41	The effects of long-term noninvasive ventilation in hypercapnic COPD patients: a randomized controlled pilot study. International Journal of COPD, 2011, 6, 615.	0.9	41
42	Functional imaging using computer methods to compare the effect of salbutamol and ipratropium bromide in patient-specific airway models of COPD. International Journal of COPD, 2011, 6, 637.	0.9	40
43	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.	0.9	42
44	Correlation between the severity of sleep apnea and upper airway morphology in pediatric and adult patients. Current Opinion in Allergy and Clinical Immunology, 2010, 10, 26-33.	1.1	32
45	Validation of Computational Fluid Dynamics in CT-based Airway Models with SPECT/CT. Radiology, 2010, 257, 854-862.	3.6	150
46	Computational fluid dynamics can detect changes in airway resistance in asthmatics after acute bronchodilation. Journal of Biomechanics, 2008, 41, 106-113.	0.9	71
47	Flow analyses in the lower airways: Patient-specific model and boundary conditions. Medical Engineering and Physics, 2008, 30, 872-879.	0.8	95
48	Novel imaging techniques using computer methods for the evaluation of the upper airway in patients with sleep-disordered breathing: A comprehensive review. Sleep Medicine Reviews, 2008, 12, 437-447.	3.8	48
49	Functional imaging using computational fluid dynamics to predict treatment success of mandibular advancement devices in sleep-disordered breathing. Journal of Biomechanics, 2007, 40, 3708-3714.	0.9	99
50	Correlation between severity of sleep apnea and upper airway morphology based on advanced anatomical and functional imaging. Journal of Biomechanics, 2007, 40, 2207-2213.	0.9	99