Harm A W M Tiddens

List of Publications by Year
in descending order

125	4,318	87888	133252
papers	citations	38 h-index	59 g-index

125	125	125	3631
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Longitudinal lung clearance index and association with structural lung damage in children with cystic fibrosis. Thorax, 2023, 78, 176-182.	5.6	2
2	Criteria and definitions for the radiological and clinical diagnosis of bronchiectasis in adults for use in clinical trials: international consensus recommendations. Lancet Respiratory Medicine,the, 2022, 10, 298-306.	10.7	70
3	Small airways targeted treatment with smart nebulizer technology could improve severe asthma in children: a retrospective analysis. Journal of Asthma, 2022, 59, 2223-2233.	1.7	3
4	Quantitative CT imaging analysis to predict pathology features in patients with a congenital pulmonary airway malformation. Journal of Pediatric Surgery, 2022, 57, 1567-1572.	1.6	2
5	Diaphragmatic dysfunction in neuromuscular disease, an MRI study. Neuromuscular Disorders, 2022, 32, 15-24.	0.6	5
6	The effect of inhaled hypertonic saline on lung structure in children aged 3â€“6 years with cystic fibrosis (SHIP-CT): a multicentre, randomised, double-blind, controlled trial. Lancet Respiratory Medicine,the, 2022, 10, 669-678.	10.7	20
7	A dual center and dual vendor comparison study of automated perfusionâ€weighted phaseâ€resolved functional lungÂmagnetic resonance imaging with dynamic contrastâ€enhanced magnetic resonance imaging in patients with cystic fibrosis. Pulmonary Circulation, 2022, 12, e12054.	1.7	11
8	Association between early respiratory viral infections and structural lung disease in infants with cystic fibrosis. Journal of Cystic Fibrosis, 2022, 21, 1020-1026.	0.7	5
9	The effect of azithromycin on structural lung disease in infants with cystic fibrosis (COMBAT CF): a phase 3, randomised, double-blind, placebo-controlled clinical trial. Lancet Respiratory Medicine,the, 2022, 10, 776-784.	10.7	14
10	A clinical guideline for structured assessment of CT-imaging in congenital lung abnormalities. Paediatric Respiratory Reviews, 2021, 37, 80-88.	1.8	6
11	MRI of the upper airways in children and young adults: the MUSIC study. Thorax, 2021, 76, 44-52.	5.6	9
12	Structure and Function of the Vocal Cords after Airway Reconstruction on Magnetic Resonance Imaging. Laryngoscope, 2021, 131, E2402-E2408.	2.0	0
13	Structure and function of small airways in asthma patients revisited. European Respiratory Review, 2021, 30, 200186.	7.1	25
14	Chest MRI to diagnose early diaphragmatic weakness in Pompe disease. Orphanet Journal of Rare Diseases, 2021, 16, 21.	2.7	7
15	Crowdsourcing airway annotations in chest computed tomography images. PLoS ONE, 2021, 16, e0249580.	2.5	1
16	Development of characteristic airway bifurcations in cystic fibrosis. Aerosol Science and Technology, 2021, 55, 1143-1164.	3.1	3
17	Automatic airway segmentation from computed tomography using robust and efficient 3-D convolutional neural networks. Scientific Reports, 2021, 11, 16001.	3.3	14
18	The evolving role of radiological imaging in cystic fibrosis. Current Opinion in Pulmonary Medicine, 2021, 27, 575-585.	2.6	10

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19	Aspergillus-related lung disease in people with cystic fibrosis: can imaging help us to diagnose disease?. European Respiratory Review, 2021, 30, 210103.	7.1	6
20	Creating a training set for artificial intelligence from initial segmentations of airways. European Radiology Experimental, 2021, 5, 54.	3.4	3
21	The impact of chest computed tomography and chest radiography on clinical management of cystic fibrosis lung disease. Journal of Cystic Fibrosis, 2020, 19, 641-646.	0.7	13
22	Airway disease on chest computed tomography of preschool children with cystic fibrosis is associated with schoolâ€age bronchiectasis. Pediatric Pulmonology, 2020, 55, 141-148.	2.0	17
23	Guidance for computed tomography (CT) imaging of the lungs for patients with cystic fibrosis (CF) in research studies. Journal of Cystic Fibrosis, 2020, 19, 176-183.	0.7	17
24	Risk factors for progression of structural lung disease in school-age children with cystic fibrosis. Journal of Cystic Fibrosis, 2020, 19, 910-916.	0.7	9
25	Analysis of Granulomatous Lymphocytic Interstitial Lung Disease Using Two Scoring Systems for Computed Tomography Scansâ€"A Retrospective Cohort Study. Frontiers in Immunology, 2020, 11, 589148.	4.8	16
26	Diagnosis and quantification of bronchiectasis using computed tomography or magnetic resonance imaging: A systematic review. Respiratory Medicine, 2020, 170, 105954.	2.9	16
27	Congenital lung abnormality quantification by computed tomography: The CLAQ method. Pediatric Pulmonology, 2020, 55, 3152-3161.	2.0	10
28	The radiological diagnosis of bronchiectasis: what's in a name?. European Respiratory Review, 2020, 29, 190120.	7.1	25
29	Structural determinants of long-term functional outcomes in young children with cystic fibrosis. European Respiratory Journal, 2020, 55, 1900748.	6.7	27
30	Assessment of early lung disease in young children with CF: A comparison between pressureâ€controlled and freeâ€breathing chest computed tomography. Pediatric Pulmonology, 2020, 55, 1161-1168.	2.0	11
31	Effect of Inspiratory Maneuvers on Lung Deposition of Tobramycin Inhalation Powder: A Modeling Study. Journal of Aerosol Medicine and Pulmonary Drug Delivery, 2020, 33, 61-72.	1.4	4
32	Early markers of cystic fibrosis structural lung disease: follow-up of the ACFBAL cohort. European Respiratory Journal, 2020, 55, 1901694.	6.7	14
33	Airway tapering: an objective image biomarker for bronchiectasis. European Radiology, 2020, 30, 2703-2711.	4.5	19
34	Chest computed tomography outcomes in a randomized clinical trial in cystic fibrosis: Lessons learned from the first ataluren phase 3 study. PLoS ONE, 2020, 15, e0240898.	2.5	15
35	Airwayâ€"artery quantitative assessment on chest computed tomography in paediatric primary ciliary dyskinesia. ERJ Open Research, 2020, 6, 00210-2019.	2.6	0
36	Title is missing!. , 2020, 15, e0240898.		0

#	Article	IF	Citations
37	Title is missing!. , 2020, 15, e0240898.		0
38	Title is missing!. , 2020, 15, e0240898.		0
39	Title is missing!. , 2020, 15, e0240898.		0
40	Home videos of cystic fibrosis patients using tobramycin inhalation powder: Relation of flow and cough. Pediatric Pulmonology, 2019, 54, 1794-1800.	2.0	5
41	Magnetic resonance imaging of the larynx in the pediatric population: A systematic review. Pediatric Pulmonology, 2019, 54, 478-486.	2.0	7
42	Oxidative stress and abnormal bioactive lipids in early cystic fibrosis lung disease. Journal of Cystic Fibrosis, 2019, 18, 781-789.	0.7	29
43	The cumulative effect of inflammation and infection on structural lung disease in early cystic fibrosis. European Respiratory Journal, 2019, 54, 1801771.	6.7	47
44	Technical challenges of quantitative chest MRI data analysis in a large cohort pediatric study. European Radiology, 2019, 29, 2770-2782.	4.5	6
45	Reference Values for Central Airway Dimensions on CT Images of Children and Adolescents. American Journal of Roentgenology, 2018, 210, 423-430.	2.2	24
46	Paediatric lung imaging: the times they are a-changin'. European Respiratory Review, 2018, 27, 170097.	7.1	25
47	The use of chest magnetic resonance imaging in interstitial lung disease: a systematic review. European Respiratory Review, 2018, 27, 180062.	7.1	44
48	Myeloperoxidase oxidation of methionine associates with early cystic fibrosis lung disease. European Respiratory Journal, 2018, 52, 1801118.	6.7	41
49	Spirometer guided chest imaging in children: It is worth the effort!. Pediatric Pulmonology, 2017, 52, 48-56.	2.0	48
50	Disease-associated mutations identify a novel region in human STING necessary for the control of type I interferon signaling. Journal of Allergy and Clinical Immunology, 2017, 140, 543-552.e5.	2.9	159
51	Diagnosis of bronchiectasis and airway wall thickening in children with cystic fibrosis: Objective airway-artery quantification. European Radiology, 2017, 27, 4680-4689.	4.5	55
52	Is sweat chloride predictive of severity of cystic fibrosis lung disease assessed by chest computed tomography?. Pediatric Pulmonology, 2017, 52, 1135-1141.	2.0	11
53	Chest imaging in cystic fibrosis studies: What counts, and can be counted?. Journal of Cystic Fibrosis, 2017, 16, 175-185.	0.7	48
54	Changes in magnetic resonance imaging scores and ventilation inhomogeneity in children with cystic fibrosis pulmonary exacerbations. European Respiratory Journal, 2017, 50, 1700244.	6.7	20

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55	Quantitative assessment of airway dimensions in young children with cystic fibrosis lung disease using chest computed tomography. Pediatric Pulmonology, 2017, 52, 1414-1423.	2.0	35
56	Detection and monitoring of lung inflammation in cystic fibrosis during respiratory tract exacerbation using diffusion-weighted magnetic resonance imaging. European Respiratory Journal, 2017, 50, 1601437.	6.7	24
57	Structural and functional ventilatory impairment in infants with severe bronchopulmonary dysplasia. Pediatric Pulmonology, 2017, 52, 1029-1037.	2.0	26
58	The fate of inhaled antibiotics after deposition in cystic fibrosis: How to get drug to the bug?. Journal of Cystic Fibrosis, 2017, 16, 13-23.	0.7	37
59	Objective airway artery dimensions compared to CT scoring methods assessing structural cystic fibrosis lung disease. Journal of Cystic Fibrosis, 2017, 16, 116-123.	0.7	25
60	Patient-specific modelling of regional tobramycin concentration levels in airways of patients with cystic fibrosis: can we dose once daily?. Journal of Antimicrobial Chemotherapy, 2017, 72, 3435-3442.	3.0	13
61	Quantification of Diaphragm Mechanics in Pompe Disease Using Dynamic 3D MRI. PLoS ONE, 2016, 11, e0158912.	2.5	30
62	Chest CT abnormalities and quality of life: relationship in adult cystic fibrosis. Annals of Translational Medicine, 2016, 4, 87-87.	1.7	15
63	Lung CT imaging in patients with bronchopulmonary dysplasia: A systematic review. Pediatric Pulmonology, 2016, 51, 975-986.	2.0	54
64	Automatic airwayâ€“artery analysis on lung CT to quantify airway wall thickening and bronchiectasis. Medical Physics, 2016, 43, 5736-5744.	3.0	38
65	Diffusion weighted imaging in cystic fibrosis disease: beyond morphological imaging. European Radiology, 2016, 26, 3830-3839.	4.5	16
66	Daily Observations of Nebuliser Use and Technique (DONUT) in children with cystic fibrosis. Journal of Cystic Fibrosis, 2016, 15, 645-651.	0.7	9
67	The development of bronchiectasis on chest computed tomography in children with cystic fibrosis: can pre-stages be identified?. European Radiology, 2016, 26, 4563-4569.	4.5	18
68	Validating chest MRI to detect and monitor cystic fibrosis lung disease in a pediatric cohort. Pediatric Pulmonology, 2016, 51, 34-41.	2.0	39
69	Multicentre chest computed tomography standardisation in children and adolescents with cystic fibrosis: the way forward. European Respiratory Journal, 2016, 47, 1706-1717.	6.7	44
70	Assessment of CF lung disease using motion corrected PROPELLER MRI: a comparison with CT. European Radiology, 2016, 26, 780-787.	4.5	60
71	Early Experiences with Crowdsourcing Airway Annotations in Chest CT. Lecture Notes in Computer Science, 2016, , 209-218.	1.3	15
72	Respiratory tract exacerbations revisited: Ventilation, inflammation, perfusion, and structure (VIPS) monitoring to redefine treatment. Pediatric Pulmonology, 2015, 50, S57-65.	2.0	29

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73	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.	2.5	38
74	Magnetic resonance imaging in children: common problems and possible solutions for lung and airways imaging. Pediatric Radiology, 2015, 45, 1901-1915.	2.0	68
75	Novel outcome measures for clinical trials in cystic fibrosis. Pediatric Pulmonology, 2015, 50, 302-315.	2.0	34
76	Clinical evaluation of the Nanoduct sweat test system in the diagnosis of cystic fibrosis after newborn screening. European Journal of Pediatrics, 2015, 174, 1025-1034.	2.7	20
77	Reversibility of trapped air on chest computed tomography in cystic fibrosis patients. European Journal of Radiology, 2015, 84, 1184-1190.	2.6	22
78	PRAGMA-CF. A Quantitative Structural Lung Disease Computed Tomography Outcome in Young Children with Cystic Fibrosis. American Journal of Respiratory and Critical Care Medicine, 2015, 191, 1158-1165.	5.6	192
79	Lung MRI and impairment of diaphragmatic function in Pompe disease. BMC Pulmonary Medicine, 2015, 15, 54.	2.0	42
80	Spirometer-controlled cine magnetic resonance imaging used to diagnose tracheobronchomalacia in paediatric patients. European Respiratory Journal, 2014, 43, 115-124.	6.7	40
81	Bronchiectases at early chest computed tomography in children with cystic fibrosis are associated with increased risk of subsequent pulmonary exacerbations and chronic pseudomonas infection. Journal of Cystic Fibrosis, 2014, 13, 564-571.	0.7	22
82	Monitoring Cystic Fibrosis Lung Disease by Computed Tomography. Radiation Risk in Perspective. American Journal of Respiratory and Critical Care Medicine, 2014, 189, 1328-1336.	5.6	111
83	Asthma and cystic fibrosis: A tangled web. Pediatric Pulmonology, 2014, 49, 205-213.	2.0	33
84	Inhaled antibiotics: dry or wet?. European Respiratory Journal, 2014, 44, 1308-1318.	6.7	52
85	What did we learn from two decades of chest computed tomography in cystic fibrosis?. Pediatric Radiology, 2014, 44, 1490-1495.	2.0	36
86	Multi-modality monitoring of cystic fibrosis lung disease: The role of chest computed tomography. Paediatric Respiratory Reviews, 2014, 15, 92-97.	1.8	34
87	The authors reply. Pediatric Pulmonology, 2014, 49, 1256-1257.	2.0	1
88	Tracking CF disease progression with CT and respiratory symptoms in a cohort of children aged 6â€“19 years. Pediatric Pulmonology, 2014, 49, 1182-1189.	2.0	29
89	Small-airways deposition of dornase alfa in children with asthma and persistent airway obstruction. Journal of Allergy and Clinical Immunology, 2013, 132, 482-485.e10.	2.9	3
90	Early intervention studies in infants and preschool children with cystic fibrosis: are we ready?. European Respiratory Journal, 2013, 42, 527-538.	6.7	49

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91	Impact of bronchiectasis and trapped air on quality of life and exacerbations in cystic fibrosis. European Respiratory Journal, 2013, 42, 371-379.	6.7	56
92	Small airway involvement in cystic fibrosis lung disease: Routine spirometry as an early and sensitive marker. Pediatric Pulmonology, 2013, 48, 1081-1088.	2.0	33
93	Assessment of Early Bronchiectasis in Young Children With Cystic Fibrosis Is Dependent on Lung Volume. Chest, 2013, 144, 1193-1198.	0.8	45
94	Three-Section Expiratory CT: Insufficient for Trapped Air Assessment in Patients with Cystic Fibrosis?. Radiology, 2012, 262, 969-976.	7.3	13
95	Cystic Fibrosis: Detecting Changes in Airway Inflammation with FDG PET/CT. Radiology, 2012, 264, 868-875.	7.3	42
96	Chest Computed Tomography Scores Are Predictive of Survival in Patients with Cystic Fibrosis Awaiting Lung Transplantation. American Journal of Respiratory and Critical Care Medicine, 2012, 185, 1096-1103.	5.6	55
97	A network meta-analysis of the efficacy of inhaled antibiotics for chronic Pseudomonas infections in cystic fibrosis. Journal of Cystic Fibrosis, 2012, 11, 419-426.	0.7	39
98	Nocturnal oxygen saturation in children with stable cystic fibrosis. Pediatric Pulmonology, 2012, 47, 1123-1130.	2.0	14
99	Managing treatment complexity in cystic fibrosis: Challenges and Opportunities. Pediatric Pulmonology, 2012, 47, 523-533.	2.0	84
100	Computed tomography and magnetic resonance imaging in cystic fibrosis lung disease. Journal of Magnetic Resonance Imaging, 2010, 32, 1370-1378.	3.4	75
101	Cystic fibrosis lung disease starts in the small airways: Can we treat it more effectively?. Pediatric Pulmonology, 2010, 45, 107-117.	2.0	161
102	Structural lung changes, lung function, and nonâ€invasive inflammatory markers in cystic fibrosis. Pediatric Allergy and Immunology, 2010, 21, 493-500.	2.6	21
103	Tracheomalacia in Adults with Cystic Fibrosis: Determination of Prevalence and Severity with Dynamic Cine CT. Radiology, 2009, 252, 577-586.	7.3	36
104	Cystic Fibrosis: Are Volumetric Ultra-Low-Dose Expiratory CT Scans Sufficient for Monitoring Related Lung Disease?. Radiology, 2009, 253, 223-229.	7.3	82
105	Lung morphology assessment using MRI: A robust ultraâ€short TR/TE 2D steady state free precession sequence used in cystic fibrosis patients. Magnetic Resonance in Medicine, 2009, 61, 299-306.	3.0	76
106	Nocturnal cough in children with stable cystic fibrosis. Pediatric Pulmonology, 2009, 44, 859-865.	2.0	31
107	Introduction. Journal of Cystic Fibrosis, 2009, 8, S1.	0.7	1
108	Quality improvement in your CF centre: taking care of care. Journal of Cystic Fibrosis, 2009, 8, S2-S5.	0.7	5

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109	Airway dimensions in bronchopulmonary dysplasia: Implications for airflow obstruction. Pediatric Pulmonology, 2008, 43, 1206-1213.	2.0	39
110	Structural and Functional Lung Disease in Primary Ciliary Dyskinesia. Chest, 2008, 134, 351-357.	0.8	98
111	Imaging and Clinical Trials in Cystic Fibrosis. Proceedings of the American Thoracic Society, 2007, 4, 343-346.	3.5	36
112	Monitoring Cystic Fibrosis Lung Disease in Clinical Trials: Is It Time for a Change?. Proceedings of the American Thoracic Society, 2007, 4, 297-298.	3.5	13
113	Cystic Fibrosis Specific Computed Tomography Scoring. Proceedings of the American Thoracic Society, 2007, 4, 338-342.	3.5	52
114	RhDNase before airway clearance therapy improves airway patency in children with CF. Pediatric Pulmonology, 2007, 42, 624-630.	2.0	39
115	Chest computed tomography scans should be considered as a routine investigation in cystic fibrosis. Paediatric Respiratory Reviews, 2006, 7, 202-208.	1.8	63
116	Update on the application of chest computed tomography scanning to cystic fibrosis. Current Opinion in Pulmonary Medicine, 2006, 12, 433-439.	2.6	24
117	Dose reduction for CT in children with cystic fibrosis: is it feasible to reduce the number of images per scan?. Pediatric Radiology, 2006, 36, 50-53.	2.0	59
118	Estimation of Cancer Mortality Associated with Repetitive Computed Tomography Scanning. American Journal of Respiratory and Critical Care Medicine, 2006, 173, 199-203.	5.6	151
119	In VitroDetermination of the Optimal Particle Size for Nebulized Aerosol Delivery to Infants. Journal of Aerosol Medicine and Pulmonary Drug Delivery, 2005, 18, 225-235.	1.2	55
120	Computed Tomography in the Evaluation of Cystic Fibrosis Lung Disease. American Journal of Respiratory and Critical Care Medicine, 2005, 172, 1246-1252.	5.6	108
121	Pulmonary Disease Assessment in Cystic Fibrosis: Comparison of CT Scoring Systems and Value of Bronchial and Arterial Dimension Measurements. Radiology, 2004, 231, 434-439.	7.3	170
122	Inhaled antibiotics. Pediatric Pulmonology, 2004, 37, 92-94.	2.0	8
123	Detecting early structural lung damage in cystic fibrosis. Pediatric Pulmonology, 2002, 34, 228-231.	2.0	168
124	Clinical Implications of Inflammation in Young Children. American Journal of Respiratory and Critical Care Medicine, 2000, 162, S11-S14.	5.6	15
125	MRI changes in diaphragmatic motion and curvature in Pompe disease over time. European Radiology, 0, , .	4.5	0