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	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
2	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
3	Detecting early structural lung damage in cystic fibrosis. Pediatric Pulmonology, 2002, 34, 228-231.	2.0	168
4	Cystic fibrosis lung disease starts in the small airways: Can we treat it more effectively?. Pediatric Pulmonology, 2010, 45, 107-117.	2.0	161
5	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
6	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
7	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
8	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
9	Structural and Functional Lung Disease in Primary Ciliary Dyskinesia. Chest, 2008, 134, 351-357.	0.8	98
10	Managing treatment complexity in cystic fibrosis: Challenges and Opportunities. Pediatric Pulmonology, 2012, 47, 523-533.	2.0	84
11	Cystic Fibrosis: Are Volumetric Ultra-Low-Dose Expiratory CT Scans Sufficient for Monitoring Related Lung Disease?. Radiology, 2009, 253, 223-229.	7.3	82
12	Lung morphology assessment using MRI: A robust ultraâ€šshort TR/TE 2D steady state free precession sequence used in cystic fibrosis patients. Magnetic Resonance in Medicine, 2009, 61, 299-306.	3.0	76
13	Computed tomography and magnetic resonance imaging in cystic fibrosis lung disease. Journal of Magnetic Resonance Imaging, 2010, 32, 1370-1378.	3.4	75
14	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
15	Magnetic resonance imaging in children: common problems and possible solutions for lung and airways imaging. Pediatric Radiology, 2015, 45, 1901-1915.	2.0	68
16	Chest computed tomography scans should be considered as a routine investigation in cystic fibrosis. Paediatric Respiratory Reviews, 2006, 7, 202-208.	1.8	63
17	Assessment of CF lung disease using motion corrected PROPELLER MRI: a comparison with CT. European Radiology, 2016, 26, 780-787.	4.5	60
18	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

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19	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
20	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
21	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
22	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
23	Lung CT imaging in patients with bronchopulmonary dysplasia: A systematic review. Pediatric Pulmonology, 2016, 51, 975-986.	2.0	54
24	Cystic Fibrosis Specific Computed Tomography Scoring. Proceedings of the American Thoracic Society, 2007, 4, 338-342.	3.5	52
25	Inhaled antibiotics: dry or wet?. European Respiratory Journal, 2014, 44, 1308-1318.	6.7	52
26	Early intervention studies in infants and preschool children with cystic fibrosis: are we ready?. European Respiratory Journal, 2013, 42, 527-538.	6.7	49
27	Spirometer guided chest imaging in children: It is worth the effort!. Pediatric Pulmonology, 2017, 52, 48-56.	2.0	48
28	Chest imaging in cystic fibrosis studies: What counts, and can be counted?. Journal of Cystic Fibrosis, 2017, 16, 175-185.	0.7	48
29	The cumulative effect of inflammation and infection on structural lung disease in early cystic fibrosis. European Respiratory Journal, 2019, 54, 1801771.	6.7	47
30	Assessment of Early Bronchiectasis in Young Children With Cystic Fibrosis Is Dependent on Lung Volume. Chest, 2013, 144, 1193-1198.	0.8	45
31	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
32	The use of chest magnetic resonance imaging in interstitial lung disease: a systematic review. European Respiratory Review, 2018, 27, 180062.	7.1	44
33	Cystic Fibrosis: Detecting Changes in Airway Inflammation with FDG PET/CT. Radiology, 2012, 264, 868-875.	7.3	42
34	Lung MRI and impairment of diaphragmatic function in Pompe disease. BMC Pulmonary Medicine, 2015, 15, 54.	2.0	42
35	Myeloperoxidase oxidation of methionine associates with early cystic fibrosis lung disease. European Respiratory Journal, 2018, 52, 1801118.	6.7	41
36	Spirometer-controlled cine magnetic resonance imaging used to diagnose tracheobronchomalacia in paediatric patients. European Respiratory Journal, 2014, 43, 115-124.	6.7	40

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37	RhDNase before airway clearance therapy improves airway patency in children with CF. Pediatric Pulmonology, 2007, 42, 624-630.	2.0	39
38	Airway dimensions in bronchopulmonary dysplasia: Implications for airflow obstruction. Pediatric Pulmonology, 2008, 43, 1206-1213.	2.0	39
39	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
40	Validating chest MRI to detect and monitor cystic fibrosis lung disease in a pediatric cohort. Pediatric Pulmonology, 2016, 51, 34-41.	2.0	39
41	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
42	Automatic airwayâ€“artery analysis on lung CT to quantify airway wall thickening and bronchiectasis. Medical Physics, 2016, 43, 5736-5744.	3.0	38
43	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
44	Imaging and Clinical Trials in Cystic Fibrosis. Proceedings of the American Thoracic Society, 2007, 4, 343-346.	3.5	36
45	Tracheomalacia in Adults with Cystic Fibrosis: Determination of Prevalence and Severity with Dynamic Cine CT. Radiology, 2009, 252, 577-586.	7.3	36
46	What did we learn from two decades of chest computed tomography in cystic fibrosis?. Pediatric Radiology, 2014, 44, 1490-1495.	2.0	36
47	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
48	Multi-modality monitoring of cystic fibrosis lung disease: The role of chest computed tomography. Paediatric Respiratory Reviews, 2014, 15, 92-97.	1.8	34
49	Novel outcome measures for clinical trials in cystic fibrosis. Pediatric Pulmonology, 2015, 50, 302-315.	2.0	34
50	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
51	Asthma and cystic fibrosis: A tangled web. Pediatric Pulmonology, 2014, 49, 205-213.	2.0	33
52	Nocturnal cough in children with stable cystic fibrosis. Pediatric Pulmonology, 2009, 44, 859-865.	2.0	31
53	Quantification of Diaphragm Mechanics in Pompe Disease Using Dynamic 3D MRI. PLoS ONE, 2016, 11, e0158912.	2.5	30
54	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

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55	Respiratory tract exacerbations revisited: Ventilation, inflammation, perfusion, and structure (VIPS) monitoring to redefine treatment. Pediatric Pulmonology, 2015, 50, S57-65.	2.0	29
56	Oxidative stress and abnormal bioactive lipids in early cystic fibrosis lung disease. Journal of Cystic Fibrosis, 2019, 18, 781-789.	0.7	29
57	Structural determinants of long-term functional outcomes in young children with cystic fibrosis. European Respiratory Journal, 2020, 55, 1900748.	6.7	27
58	Structural and functional ventilatory impairment in infants with severe bronchopulmonary dysplasia. Pediatric Pulmonology, 2017, 52, 1029-1037.	2.0	26
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	Paediatric lung imaging: the times they are a-changin'. European Respiratory Review, 2018, 27, 170097.	7.1	25
61	The radiological diagnosis of bronchiectasis: what's in a name?. European Respiratory Review, 2020, 29, 190120.	7.1	25
62	Structure and function of small airways in asthma patients revisited. European Respiratory Review, 2021, 30, 200186.	7.1	25
63	Update on the application of chest computed tomography scanning to cystic fibrosis. Current Opinion in Pulmonary Medicine, 2006, 12, 433-439.	2.6	24
64	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
65	Reference Values for Central Airway Dimensions on CT Images of Children and Adolescents. American Journal of Roentgenology, 2018, 210, 423-430.	2.2	24
66	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
67	Reversibility of trapped air on chest computed tomography in cystic fibrosis patients. European Journal of Radiology, 2015, 84, 1184-1190.	2.6	22
68	Structural lung changes, lung function, and nonâ€invasive inflammatory markers in cystic fibrosis. Pediatric Allergy and Immunology, 2010, 21, 493-500.	2.6	21
69	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
70	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
71	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
72	Airway tapering: an objective image biomarker for bronchiectasis. European Radiology, 2020, 30, 2703-2711.	4.5	19

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73	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
74	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
75	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
76	Diffusion weighted imaging in cystic fibrosis disease: beyond morphological imaging. European Radiology, 2016, 26, 3830-3839.	4.5	16
77	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
78	Diagnosis and quantification of bronchiectasis using computed tomography or magnetic resonance imaging: A systematic review. Respiratory Medicine, 2020, 170, 105954.	2.9	16
79	Clinical Implications of Inflammation in Young Children. American Journal of Respiratory and Critical Care Medicine, 2000, 162, S11-S14.	5.6	15
80	Chest CT abnormalities and quality of life: relationship in adult cystic fibrosis. Annals of Translational Medicine, 2016, 4, 87-87.	1.7	15
81	Early Experiences with Crowdsourcing Airway Annotations in Chest CT. Lecture Notes in Computer Science, 2016, , 209-218.	1.3	15
82	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
83	Nocturnal oxygen saturation in children with stable cystic fibrosis. Pediatric Pulmonology, 2012, 47, 1123-1130.	2.0	14
84	Early markers of cystic fibrosis structural lung disease: follow-up of the ACFBAL cohort. European Respiratory Journal, 2020, 55, 1901694.	6.7	14
85	Automatic airway segmentation from computed tomography using robust and efficient 3-D convolutional neural networks. Scientific Reports, 2021, 11, 16001.	3.3	14
86	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
87	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
88	Three-Section Expiratory CT: Insufficient for Trapped Air Assessment in Patients with Cystic Fibrosis?. Radiology, 2012, 262, 969-976.	7.3	13
89	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
90	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

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91	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
92	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
93	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
94	Congenital lung abnormality quantification by computed tomography: The CLAQ method. Pediatric Pulmonology, 2020, 55, 3152-3161.	2.0	10
95	The evolving role of radiological imaging in cystic fibrosis. Current Opinion in Pulmonary Medicine, 2021, 27, 575-585.	2.6	10
96	Daily Observations of Nebuliser Use and Technique (DONUT) in children with cystic fibrosis. Journal of Cystic Fibrosis, 2016, 15, 645-651.	0.7	9
97	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
98	MRI of the upper airways in children and young adults: the MUSIC study. Thorax, 2021, 76, 44-52.	5.6	9
99	Inhaled antibiotics. Pediatric Pulmonology, 2004, 37, 92-94.	2.0	8
100	Magnetic resonance imaging of the larynx in the pediatric population: A systematic review. Pediatric Pulmonology, 2019, 54, 478-486.	2.0	7
101	Chest MRI to diagnose early diaphragmatic weakness in Pompe disease. Orphanet Journal of Rare Diseases, 2021, 16, 21.	2.7	7
102	Technical challenges of quantitative chest MRI data analysis in a large cohort pediatric study. European Radiology, 2019, 29, 2770-2782.	4.5	6
103	A clinical guideline for structured assessment of CT-imaging in congenital lung abnormalities. Paediatric Respiratory Reviews, 2021, 37, 80-88.	1.8	6
104	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
105	Quality improvement in your CF centre: taking care of care. Journal of Cystic Fibrosis, 2009, 8, S2-S5.	0.7	5
106	Home videos of cystic fibrosis patients using tobramycin inhalation powder: Relation of flow and cough. Pediatric Pulmonology, 2019, 54, 1794-1800.	2.0	5
107	Diaphragmatic dysfunction in neuromuscular disease, an MRI study. Neuromuscular Disorders, 2022, 32, 15-24.	0.6	5
108	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

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109	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
110	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
111	Development of characteristic airway bifurcations in cystic fibrosis. Aerosol Science and Technology, 2021, 55, 1143-1164.	3.1	3
112	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
113	Creating a training set for artificial intelligence from initial segmentations of airways. European Radiology Experimental, 2021, 5, 54.	3.4	3
114	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
115	Longitudinal lung clearance index and association with structural lung damage in children with cystic fibrosis. Thorax, 2023, 78, 176-182.	5.6	2
116	Introduction. Journal of Cystic Fibrosis, 2009, 8, S1.	0.7	1
117	The authors reply. Pediatric Pulmonology, 2014, 49, 1256-1257.	2.0	1
118	Crowdsourcing airway annotations in chest computed tomography images. PLoS ONE, 2021, 16, e0249580.	2.5	1
119	Structure and Function of the Vocal Cords after Airway Reconstruction on Magnetic Resonance Imaging. Laryngoscope, 2021, 131, E2402-E2408.	2.0	0
120	Airwayâ€“artery quantitative assessment on chest computed tomography in paediatric primary ciliary dyskinesia. ERJ Open Research, 2020, 6, 00210-2019.	2.6	0
121	Title is missing!. , 2020, 15, e0240898.		0
122	Title is missing!. , 2020, 15, e0240898.		0
123	Title is missing!. , 2020, 15, e0240898.		0
124	Title is missing!. , 2020, 15, e0240898.		0
125	MRI changes in diaphragmatic motion and curvature in Pompe disease over time. European Radiology, 0, , .	4.5	0