

Eric A Hoffman

List of Publications by Year in descending order

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Version: 2024-02-01

604
papers

33,693
citations

3149

92
h-index

6282

158
g-index

615
all docs

615
docs citations

615
times ranked

22101
citing authors

#	ARTICLE	IF	CITATIONS
1	Comparative Impact of Depressive Symptoms and FEV ₁ % on Chronic Obstructive Pulmonary Disease. <i>Annals of the American Thoracic Society</i> , 2022, 19, 171-178.	1.5	7
2	Clinically Significant and Comorbid Anxiety and Depression Symptoms Predict Severe Respiratory Exacerbations in Smokers: A Post Hoc Analysis of the COPD Gene and SPIROMICS Cohorts. <i>Annals of the American Thoracic Society</i> , 2022, 19, 143-146.	1.5	6
3	CT-Assessed Dysanapsis and Airflow Obstruction in Early and Mid Adulthood. <i>Chest</i> , 2022, 161, 389-391.	0.4	10
4	Associations of sleep duration and sleep-wake rhythm with lung parenchymal abnormalities on computed tomography: The MESA study. <i>Journal of Sleep Research</i> , 2022, 31, e13475.	1.7	5
5	Assessing predictors of rheumatoid arthritis-associated interstitial lung disease using quantitative lung densitometry. <i>Rheumatology</i> , 2022, 61, 2792-2804.	0.9	7
6	Development of a Blood-based Transcriptional Risk Score for Chronic Obstructive Pulmonary Disease. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2022, 205, 161-170.	2.5	15
7	Alpha-1 Antitrypsin MZ Heterozygosity Is an Endotype of Chronic Obstructive Pulmonary Disease. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2022, 205, 313-323.	2.5	21
8	Significance of FEV ₃ /FEV ₆ in Recognition of Early Airway Disease in Smokers at Risk of Development of COPD. <i>Chest</i> , 2022, 161, 949-959.	0.4	6
9	Identification of Sputum Biomarkers Predictive of Pulmonary Exacerbations in COPD. <i>Chest</i> , 2022, 161, 1239-1249.	0.4	20
10	The Precision Interventions for Severe and/or Exacerbation-Prone (PreCISe) Asthma Network: An overview of Network organization, procedures, and interventions. <i>Journal of Allergy and Clinical Immunology</i> , 2022, 149, 488-516.e9.	1.5	24
11	Mucus Plugs Persist in Asthma, and Changes in Mucus Plugs Associate with Changes in Airflow over Time. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2022, 205, 1036-1045.	2.5	39
12	Ferret models of alpha-1 antitrypsin deficiency develop lung and liver disease. <i>JCI Insight</i> , 2022, 7, .	2.3	8
13	Reconsidering the Utility of Race-Specific Lung Function Prediction Equations. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2022, 205, 819-829.	2.5	63
14	Elastic mucus strands impair mucociliary clearance in cystic fibrosis pigs. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, e2121731119.	3.3	7
15	Quantitative Chest CT Assessment of Small Airways Disease in Post-Acute SARS-CoV-2 Infection. <i>Radiology</i> , 2022, 304, 185-192.	3.6	57
16	Inter- and intra-scan variability for lung imaging quantifications via CT. , 2022, 12031, .		0
17	Origins of and lessons from quantitative functional X-ray computed tomography of the lung. <i>British Journal of Radiology</i> , 2022, 95, 20211364.	1.0	9
18	CT-Based Segmentation of Pectoral Muscle using Deep Learning and Association of Computed Metrics with Aging and Sex. , 2022, , .		3

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19	Scanner-specific validation of a CT simulator using a COPD-emulated anthropomorphic phantom. , 2022, 12031, .		1
20	PLOSL: Population learning followed by one shot learning pulmonary image registration using tissue volume preserving and vesselness constraints. Medical Image Analysis, 2022, 79, 102434.	7.0	6
21	Associations of Monocyte Count and Other Immune Cell Types with Interstitial Lung Abnormalities. American Journal of Respiratory and Critical Care Medicine, 2022, 205, 795-805.	2.5	11
22	Severe pulmonary hypertension associated with lung disease is characterised by a loss of small pulmonary vessels on quantitative computed tomography. ERJ Open Research, 2022, 8, 00503-2021.	1.1	10
23	<i>BJR</i> functional imaging of the lung special feature: introductory editorial. British Journal of Radiology, 2022, 95, 20229004.	1.0	0
24	Ambient ozone effects on respiratory outcomes among smokers modified by neighborhood poverty: An analysis of SPIROMICS AIR. Science of the Total Environment, 2022, 829, 154694.	3.9	9
25	Alcohol Use Intensity Decreases in Response to Successful Smoking Cessation Therapy. Genes, 2022, 13, 2.	1.0	2
26	Quantitative CT Characteristics of Cluster Phenotypes in the Severe Asthma Research Program Cohorts. Radiology, 2022, 304, 450-459.	3.6	3
27	Single Volume Lung Biomechanics from Chest Computed Tomography Using a Mode Preserving Generative Adversarial Network. , 2022, , .		1
28	Simulating Multi-Scale Pulmonary Vascular Function by Coupling Computational Fluid Dynamics With an Anatomic Network Model. Frontiers in Network Physiology, 2022, 2, .	0.8	3
29	Upper and Lower Airway Dysanapsis and Airflow Obstruction among Older Adults. American Journal of Respiratory and Critical Care Medicine, 2022, 206, 913-917.	2.5	2
30	Quantification of lung ventilation defects on hyperpolarized MRI: The Multi-Ethnic Study of Atherosclerosis (MESA) COPD study. Magnetic Resonance Imaging, 2022, 92, 140-149.	1.0	5
31	High-Resolution CT Vascular Imaging Using Blood Pool Contrast Agents. Methodist DeBakey Cardiovascular Journal, 2021, 8, 18.	0.5	21
32	Regional Lung Perfusion Analysis in Experimental ARDS by Electrical Impedance and Computed Tomography. IEEE Transactions on Medical Imaging, 2021, 40, 251-261.	5.4	28
33	Contribution of Individual and Neighborhood Factors to Racial Disparities in Respiratory Outcomes. American Journal of Respiratory and Critical Care Medicine, 2021, 203, 987-997.	2.5	38
34	A CT-Based Automated Algorithm for Airway Segmentation Using Freeze-and-Grow Propagation and Deep Learning. IEEE Transactions on Medical Imaging, 2021, 40, 405-418.	5.4	17
35	Mucus Plugs and Emphysema in the Pathophysiology of Airflow Obstruction and Hypoxemia in Smokers. American Journal of Respiratory and Critical Care Medicine, 2021, 203, 957-968.	2.5	71
36	Associations of 1%-3 Fatty Acids With Interstitial Lung Disease and Lung Imaging Abnormalities Among Adults. American Journal of Epidemiology, 2021, 190, 95-108.	1.6	11

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37	CT image segmentation for inflamed and fibrotic lungs using a multi-resolution convolutional neural network. <i>Scientific Reports</i> , 2021, 11, 1455.	1.6	32
38	Machine learning and in silico methods. , 2021, , 375-390.		2
39	Polycythemia is Associated with Lower Incidence of Severe COPD Exacerbations in the SPIROMICS Study. <i>Chronic Obstructive Pulmonary Diseases (Miami, Fla)</i> , 2021, 8, 326-335.	0.5	0
40	Defining Resilience to Smoking Related Lung Disease: A Modified Delphi Approach from SPIROMICS. <i>Annals of the American Thoracic Society</i> , 2021, 18, 1822-1831.	1.5	5
41	Lung microbiota associations with clinical features of COPD in the SPIROMICS cohort. <i>Npj Biofilms and Microbiomes</i> , 2021, 7, 14.	2.9	33
42	COPD quantifications via CT imaging: ascertaining the effects of acquisition protocol using virtual imaging trial. , 2021, , .		4
43	Generalizability of a deep learning airway segmentation algorithm to a blinded low-dose CT dataset. , 2021, , .		1
44	Quantitative ^{CT}-Based Methods for Bone Microstructural Measures and Their Relationships With Vertebral Fractures in a Pilot Study on Smokers. <i>JBMR Plus</i> , 2021, 5, e10484.	1.3	6
45	Latent traits of lung tissue patterns in former smokers derived by dual channel deep learning in computed tomography images. <i>Scientific Reports</i> , 2021, 11, 4916.	1.6	12
46	Radiomics Detection of Pulmonary Hypertension via Texture-Based Assessments of Cardiac MRI: A Machine-Learning Model Comparisonâ€”Cardiac MRI Radiomics in Pulmonary Hypertension. <i>Journal of Clinical Medicine</i> , 2021, 10, 1921.	1.0	6
47	Soluble receptor for advanced glycation end products (sRAGE) as a biomarker of COPD. <i>Respiratory Research</i> , 2021, 22, 127.	1.4	26
48	Disparities in access to food and chronic obstructive pulmonary disease (COPD)-related outcomes: a cross-sectional analysis. <i>BMC Pulmonary Medicine</i> , 2021, 21, 139.	0.8	5
49	The Reversion of DNA Methylation at Coronary Heart Disease Risk Loci in Response to Prevention Therapy. <i>Processes</i> , 2021, 9, 699.	1.3	3
50	Pulmonary Hypertension in Association with Lung Disease: Quantitative CT and Artificial Intelligence to the Rescue? State-of-the-Art Review. <i>Diagnostics</i> , 2021, 11, 679.	1.3	15
51	Pulmonary fibrosis 4 months after COVID-19 is associated with severity of illness and blood leucocyte telomere length. <i>Thorax</i> , 2021, 76, 1242-1245.	2.7	139
52	Associations of D-Dimer with Computed Tomographic Lung Abnormalities, Serum Biomarkers of Lung Injury, and Forced Vital Capacity: MESA Lung Study. <i>Annals of the American Thoracic Society</i> , 2021, 18, 1839-1848.	1.5	3
53	Genetic and non-genetic factors affecting the expression of COVID-19-relevant genes in the large airway epithelium. <i>Genome Medicine</i> , 2021, 13, 66.	3.6	21
54	Unsupervised Clustering Of Airway Tree Structures On High-Resolution CT: The Mesa Lung Study. , 2021, , .		0

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55	Longitudinal Imaging-Based Clusters in Former Smokers of the COPD Cohort Associate with Clinical Characteristics: The SubPopulations and Intermediate Outcome Measures in COPD Study (SPIROMICS). International Journal of COPD, 2021, Volume 16, 1477-1496.	0.9	8
56	Emphysema Progression and Lung Function Decline Among Angiotensin Converting Enzyme Inhibitors and Angiotensin-Receptor Blockade Users in the COPD Gene Cohort. Chest, 2021, 160, 1245-1254.	0.4	9
57	Aortic enlargement in chronic obstructive pulmonary disease (COPD) and emphysema: The Multi-Ethnic Study of Atherosclerosis (MESA) COPD study. International Journal of Cardiology, 2021, 331, 214-220.	0.8	10
58	Airway mucin MUC5AC and MUC5B concentrations and the initiation and progression of chronic obstructive pulmonary disease: an analysis of the SPIROMICS cohort. Lancet Respiratory Medicine, the, 2021, 9, 1241-1254.	5.2	80
59	Generation-based study of airway remodeling in smokers with normal-looking CT with normalization to control inter-subject variability. European Journal of Radiology, 2021, 138, 109657.	1.2	6
60	Regional Gas Transport During Conventional and Oscillatory Ventilation Assessed by Xenon-Enhanced Computed Tomography. Annals of Biomedical Engineering, 2021, 49, 2377-2388.	1.3	5
61	PreCLSE: Precision Medicine in Severe Asthma: An adaptive platform trial with biomarker ascertainment. Journal of Allergy and Clinical Immunology, 2021, 147, 1594-1601.	1.5	27
62	Radiomics side experiments and DAFIT approach in identifying pulmonary hypertension using Cardiac MRI derived radiomics based machine learning models. Scientific Reports, 2021, 11, 12686.	1.6	13
63	CT-derived 3D-diaphragm motion in emphysema and IPF compared to normal subjects. Scientific Reports, 2021, 11, 14923.	1.6	8
64	Effects of Lung Injury on Regional Aeration and Expiratory Time Constants: Insights From Four-Dimensional Computed Tomography Image Registration. Frontiers in Physiology, 2021, 12, 707119.	1.3	11
65	Ratio of FEV1/Slow Vital Capacity of ≤ 0.7 Is Associated With Clinical, Functional, and Radiologic Features of Obstructive Lung Disease in Smokers With Preserved Lung Function. Chest, 2021, 160, 94-103.	0.4	8
66	Pulmonary Arterial Pruning and Longitudinal Change in Percent Emphysema and Lung Function. Chest, 2021, 160, 470-480.	0.4	17
67	Adiposity and Interstitial Lung Abnormalities in Community-Dwelling Adults. Chest, 2021, 160, 582-594.	0.4	17
68	Case Studies in Physiology: Temporal variations of the lung parenchyma and vasculature in asymptomatic COVID-19 pneumonia: a multispectral CT assessment. Journal of Applied Physiology, 2021, 131, 454-463.	1.2	5
69	The Association Between Lung Hyperinflation and Coronary Artery Disease in Smokers. Chest, 2021, 160, 858-871.	0.4	7
70	Quantitative CT metrics are associated with longitudinal lung function decline and future asthma exacerbations: Results from SARP-3. Journal of Allergy and Clinical Immunology, 2021, 148, 752-762.	1.5	30
71	Early Lung Disease Exhibits Bacteria-Dependent and -Independent Abnormalities in Cystic Fibrosis Pigs. American Journal of Respiratory and Critical Care Medicine, 2021, 204, 692-702.	2.5	8
72	QIBA guidance: Computed tomography imaging for COVID-19 quantitative imaging applications. Clinical Imaging, 2021, 77, 151-157.	0.8	11

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73	Racial Segregation and Respiratory Outcomes among Urban Black Residents with and at Risk of Chronic Obstructive Pulmonary Disease. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2021, 204, 536-545.	2.5	17
74	Quantitative CT imaging and advanced visualization methods: potential application in novel coronavirus disease 2019 (COVID-19) pneumonia. <i>BJR Open</i> , 2021, 3, 20200043.	0.4	12
75	Novel Subtypes of Pulmonary Emphysema Based on Spatially-Informed Lung Texture Learning: The Multi-Ethnic Study of Atherosclerosis (MESA) COPD Study. <i>IEEE Transactions on Medical Imaging</i> , 2021, 40, 3652-3662.	5.4	6
76	A computational model of contributors to pulmonary hypertensive disease: impacts of whole lung and focal disease distributions. <i>Pulmonary Circulation</i> , 2021, 11, 1-15.	0.8	4
77	The relationship of smoking to cg05575921 methylation in blood and saliva DNA samples from several studies. <i>Scientific Reports</i> , 2021, 11, 21627.	1.6	17
78	Menstrual cycle impacts lung structure measures derived from quantitative computed tomography. <i>European Radiology</i> , 2021, , 1.	2.3	3
79	Estimated Ventricular Size, Asthma Severity, and Exacerbations. <i>Chest</i> , 2020, 157, 258-267.	0.4	4
80	CT Super-Resolution GAN Constrained by the Identical, Residual, and Cycle Learning Ensemble (GAN-CIRCLE). <i>IEEE Transactions on Medical Imaging</i> , 2020, 39, 188-203.	5.4	289
81	Associations of Serum Adipokines With Subclinical Interstitial Lung Disease Among Community-Dwelling Adults. <i>Chest</i> , 2020, 157, 580-589.	0.4	17
82	The Effects of Rare <i>SERPINA1</i> Variants on Lung Function and Emphysema in SPIROMICS. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2020, 201, 540-554.	2.5	38
83	Disease Progression Modeling in Chronic Obstructive Pulmonary Disease. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2020, 201, 294-302.	2.5	56
84	Machine Learning Characterization of COPD Subtypes. <i>Chest</i> , 2020, 157, 1147-1157.	0.4	44
85	Association of Long-term Ambient Ozone Exposure With Respiratory Morbidity in Smokers. <i>JAMA Internal Medicine</i> , 2020, 180, 106.	2.6	49
86	Quantitative CT-based image registration metrics provide different ventilation and lung motion patterns in prone and supine positions in healthy subjects. <i>Respiratory Research</i> , 2020, 21, 254.	1.4	6
87	Lung function of primary cooks using LPG or biomass and the effect of particulate matter on airway epithelial barrier integrity. <i>Environmental Research</i> , 2020, 189, 109888.	3.7	11
88	Imaging of COVID-19 pneumonia: Patterns, pathogenesis, and advances. <i>British Journal of Radiology</i> , 2020, 93, 20200538.	1.0	31
89	Regional distribution of high-attenuation areas on chest computed tomography in the Multi-Ethnic Study of Atherosclerosis. <i>ERJ Open Research</i> , 2020, 6, 00115-2019.	1.1	9
90	Lung-Specific Risk Factors Associated With Incident Hip Fracture in Current and Former Smokers. <i>Journal of Bone and Mineral Research</i> , 2020, 35, 1952-1961.	3.1	6

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91	Automatic Quantification of Pulmonary Fissure Integrity: A Repeatability Analysis. , 2020, , .		2
92	Dysanapsis and COPDâ€™Reply. JAMA - Journal of the American Medical Association, 2020, 324, 1572.	3.8	3
93	Lung and fissure shape is associated with age in healthy never-smoking adults aged 20â€™90 years. Scientific Reports, 2020, 10, 16135.	1.6	11
94	<p>Novel Respiratory Disability Score Predicts COPD Exacerbations and Mortality in the Spiromics Cohort</p>. International Journal of COPD, 2020, Volume 15, 1887-1898.	0.9	2
95	An integrated 1D breathing lung simulation with relative hysteresis of airway structure and regional pressure for healthy and asthmatic human lungs. Journal of Applied Physiology, 2020, 129, 732-747.	1.2	10
96	The Reversion of cg05575921 Methylation in Smoking Cessation: A Potential Tool for Incentivizing Healthy Aging. Genes, 2020, 11, 1415.	1.0	13
97	Quantitative CT-based structural alterations of segmental airways in cement dust-exposed subjects. Respiratory Research, 2020, 21, 133.	1.4	7
98	Locally Adaptive Half-Max Methods for Airway Lumen-Area and Wall-Thickness and Their Repeat CT Scan Reproducibility. , 2020, 2020, .		0
99	Association of Dysanapsis With Chronic Obstructive Pulmonary Disease Among Older Adults. JAMA - Journal of the American Medical Association, 2020, 323, 2268.	3.8	104
100	Quantifying Regional Lung Deformation Using Four-Dimensional Computed Tomography: A Comparison of Conventional and Oscillatory Ventilation. Frontiers in Physiology, 2020, 11, 14.	1.3	15
101	Relative Regional Air Volume Change Maps at the Acinar Scale Reflect Variable Ventilation in Low Lung Attenuation of COPD patients. Academic Radiology, 2020, 27, 1540-1548.	1.3	10
102	Reference values for high attenuation areas on chest CT in a healthy, neverâ€™smoker, multiâ€™ethnic sample: The MESA study. Respiriology, 2020, 25, 855-862.	1.3	13
103	Associations Among 25-Hydroxyvitamin Dâ€™Levels, Lung Function, and Exacerbation Outcomes in COPD. Chest, 2020, 157, 856-865.	0.4	35
104	Antinuclear antibodies and subclinical interstitial lung disease in community-dwelling adults: the MESA study. European Respiratory Journal, 2020, 55, 1902262.	3.1	1
105	Transport and deposition of hygroscopic particles in asthmatic subjects with and without airway narrowing. Journal of Aerosol Science, 2020, 146, 105581.	1.8	18
106	Clinical Phenotypes of Atopy and Asthma in COPD. Chest, 2020, 158, 2333-2345.	0.4	19
107	Five-year Progression of Emphysema and Air Trapping at CT in Smokers with and Those without Chronic Obstructive Pulmonary Disease: Results from the COPDGene Study. Radiology, 2020, 295, 218-226.	3.6	52
108	Lack of airway submucosal glands impairs respiratory host defenses. ELife, 2020, 9, .	2.8	26

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109	Cluster-Guided Multiscale Lung Modeling via Machine Learning. , 2020, , 2699-2718.		0
110	Registration-Invariant Biomechanical Features for Disease Staging of COPD in SPIROMICS. Lecture Notes in Computer Science, 2020, , 143-154.	1.0	3
111	Biomarkers Predictive of Exacerbations in the SPIROMICS and COPD Gene Cohorts. American Journal of Respiratory and Critical Care Medicine, 2020, 201, 473-481.	2.5	1
112	Anatomical labeling of human airway branches using a novel two-step machine learning and hierarchical features. , 2020, 11313, .		1
113	Assessment of Lung Biomechanics in COPD Using Image Registration. , 2020, , .		3
114	Voxel-Wise Longitudinal Parametric Response Mapping Analysis of Chest Computed Tomography in Smokers. Academic Radiology, 2019, 26, 217-223.	1.3	55
115	Computed Tomographic Biomarkers in Idiopathic Pulmonary Fibrosis. The Future of Quantitative Analysis. American Journal of Respiratory and Critical Care Medicine, 2019, 199, 12-21.	2.5	102
116	Association Between Long-term Exposure to Ambient Air Pollution and Change in Quantitatively Assessed Emphysema and Lung Function. JAMA - Journal of the American Medical Association, 2019, 322, 546.	3.8	236
117	Imaging-based clusters in former smokers of the COPD cohort associate with clinical characteristics: the SubPopulations and intermediate outcome measures in COPD study (SPIROMICS). Respiratory Research, 2019, 20, 153.	1.4	25
118	Reproducibility and Changes in Vena Caval Blood Flow by Using 4D Flow MRI in Pulmonary Emphysema and Chronic Obstructive Pulmonary Disease (COPD): The Multi-Ethnic Study of Atherosclerosis (MESA) COPD Substudy. Radiology, 2019, 292, 585-594.	3.6	12
119	Radiographic lung volumes predict progression to COPD in smokers with preserved spirometry in SPIROMICS. European Respiratory Journal, 2019, 54, 1802214.	3.1	29
120	Enhanced Generative Model for Unsupervised Discovery of Spatially-Informed Macroscopic Emphysema: The Mesa Copd Study. , 2019, , .		0
121	Aspirin Use and Respiratory Morbidity in COPD. Chest, 2019, 155, 519-527.	0.4	25
122	Ambient air pollution and pulmonary vascular volume on computed tomography: the MESA Air Pollution and Lung cohort studies. European Respiratory Journal, 2019, 53, 1802116.	3.1	18
123	1D network simulations for evaluating regional flow and pressure distributions in healthy and asthmatic human lungs. Journal of Applied Physiology, 2019, 127, 122-133.	1.2	25
124	Machine learning approach for distinguishing malignant and benign lung nodules utilizing standardized perinodular parenchymal features from CT. Medical Physics, 2019, 46, 3207-3216.	1.6	59
125	The St. George's Respiratory Questionnaire Definition of Chronic Bronchitis May Be a Better Predictor of COPD Exacerbations Compared With the Classic Definition. Chest, 2019, 156, 685-695.	0.4	40
126	Differences in Particle Deposition Between Members of Imaging-Based Asthma Clusters. Journal of Aerosol Medicine and Pulmonary Drug Delivery, 2019, 32, 213-223.	0.7	21

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127	Combined Forced Expiratory Volume in 1 Second and Forced Vital Capacity Bronchodilator Response, Exacerbations, and Mortality in Chronic Obstructive Pulmonary Disease. <i>Annals of the American Thoracic Society</i> , 2019, 16, 826-835.	1.5	41
128	A Genetic Risk Score Associated with Chronic Obstructive Pulmonary Disease Susceptibility and Lung Structure on Computed Tomography. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2019, 200, 721-731.	2.5	40
129	Reprint of: Voxel-Wise Longitudinal Parametric Response Mapping Analysis of Chest Computed Tomography in Smokers. <i>Academic Radiology</i> , 2019, 26, 306-312.	1.3	11
130	The matrikine acetyl-proline-glycine-proline and clinical features of COPD: findings from SPIROMICS. <i>Respiratory Research</i> , 2019, 20, 254.	1.4	8
131	Effect of Reconstruction Parameters on the Quantitative Analysis of Chest Computed Tomography. <i>Journal of Thoracic Imaging</i> , 2019, 34, 92-102.	0.8	21
132	<p>Clinical Significance of Bronchodilator Responsiveness Evaluated by Forced Vital Capacity in COPD: SPIROMICS Cohort Analysis</p>. <i>International Journal of COPD</i> , 2019, Volume 14, 2927-2938.	0.9	16
133	Alignment of Inhaled Chronic Obstructive Pulmonary Disease Therapies with Published Strategies. Analysis of the Global Initiative for Chronic Obstructive Lung Disease Recommendations in SPIROMICS. <i>Annals of the American Thoracic Society</i> , 2019, 16, 200-208.	1.5	31
134	Ultrasound measurement of knee synovial fluid during external pneumatic compression. <i>Journal of Orthopaedic Research</i> , 2019, 37, 601-608.	1.2	6
135	Safety and Tolerability of Comprehensive Research Bronchoscopy in Chronic Obstructive Pulmonary Disease. Results from the SPIROMICS Bronchoscopy Substudy. <i>Annals of the American Thoracic Society</i> , 2019, 16, 439-446.	1.5	18
136	Integrative Genomics Analysis Identifies ACVR1B as a Candidate Causal Gene of Emphysema Distribution. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2019, 60, 388-398.	1.4	15
137	Imaging Advances in Chronic Obstructive Pulmonary Disease. Insights from the Genetic Epidemiology of Chronic Obstructive Pulmonary Disease (COPDGene) Study. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2019, 199, 286-301.	2.5	100
138	Aerosol deposition predictions in computed tomography-derived skeletons from severe asthmatics: A feasibility study. <i>Clinical Biomechanics</i> , 2019, 66, 81-87.	0.5	6
139	Do Pulmonary Cavity Shapes Influence Lung Function?. <i>Journal of Biomechanical Engineering</i> , 2019, 141, .	0.6	5
140	A fully automated CT-based airway segmentation algorithm using deep learning and topological leakage detection and branch augmentation approaches. , 2019, , .		3
141	Mucus strands from submucosal glands initiate mucociliary transport of large particles. <i>JCI Insight</i> , 2019, 4, .	2.3	36
142	COPDGene® 2019: Redefining the Diagnosis of Chronic Obstructive Pulmonary Disease. <i>Chronic Obstructive Pulmonary Diseases (Miami, Fla)</i> , 2019, 6, 384-399.	0.5	112
143	Structural and Functional Features on Quantitative Chest Computed Tomography in the Korean Asian versus the White American Healthy Non-Smokers. <i>Korean Journal of Radiology</i> , 2019, 20, 1236.	1.5	13
144	Pulmonary lobar segmentation from computed tomography scans based on a statistical finite element analysis of lobe shape. , 2019, , .		3

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145	Association between Emphysema and Chronic Obstructive Pulmonary Disease Outcomes in the COPDGene and SPIROMICS Cohorts: A <i>Post Hoc</i> Analysis of Two Clinical Trials. American Journal of Respiratory and Critical Care Medicine, 2018, 198, 265-267.	2.5	29
146	Pruning of the Pulmonary Vasculature in Asthma. The Severe Asthma Research Program (SARP) Cohort. American Journal of Respiratory and Critical Care Medicine, 2018, 198, 39-50.	2.5	51
147	Lumen area change (Delta Lumen) between inspiratory and expiratory multidetector computed tomography as a measure of severe outcomes in asthmatic patients. Journal of Allergy and Clinical Immunology, 2018, 142, 1773-1780.e9.	1.5	13
148	Dependence of subject-specific parameters for a fast helical CT respiratory motion model on breathing rate: an animal study. Physics in Medicine and Biology, 2018, 63, 04NT04.	1.6	1
149	Human airway branch variation and chronic obstructive pulmonary disease. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E974-E981.	3.3	80
150	At the Root: Defining and Halting Progression of Early Chronic Obstructive Pulmonary Disease. American Journal of Respiratory and Critical Care Medicine, 2018, 197, 1540-1551.	2.5	185
151	A Longitudinal Cohort Study of Aspirin Use and Progression of Emphysema-like Lung Characteristics on CT Imaging. Chest, 2018, 154, 41-50.	0.4	28
152	Asthma Is a Risk Factor for Respiratory Exacerbations Without Increased Rate of Lung Function Decline. Chest, 2018, 153, 368-377.	0.4	14
153	Infection Is Not Required for Mucoinflammatory Lung Disease in CFTR-Knockout Ferrets. American Journal of Respiratory and Critical Care Medicine, 2018, 197, 1308-1318.	2.5	108
154	Blood eosinophil count thresholds and exacerbations in patients with chronic obstructive pulmonary disease. Journal of Allergy and Clinical Immunology, 2018, 141, 2037-2047.e10.	1.5	138
155	Rural Residence and Chronic Obstructive Pulmonary Disease Exacerbations. Analysis of the SPIROMICS Cohort. Annals of the American Thoracic Society, 2018, 15, 808-816.	1.5	32
156	Prognostic Significance of Large Airway Dimensions on Computed Tomography in the General Population. The Multi-Ethnic Study of Atherosclerosis (MESA) Lung Study. Annals of the American Thoracic Society, 2018, 15, 718-727.	1.5	24
157	Pulmonary artery stiffness in chronic obstructive pulmonary disease (COPD) and emphysema: The Multi-Ethnic Study of Atherosclerosis (MESA) COPD Study. Journal of Magnetic Resonance Imaging, 2018, 47, 262-271.	1.9	8
158	Associations between emphysema-like lung on CT and incident airflow limitation: a general population-based cohort study. Thorax, 2018, 73, 486-488.	2.7	19
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