

Brian J Bartholmai

List of Publications by Citations

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112
papers

3,450
citations

35
h-index

56
g-index

125
ext. papers

4,419
ext. citations

5.8
avg, IF

5.19
L-index

#	Paper	IF	Citations
112	Incidence, prevalence, and clinical course of idiopathic pulmonary fibrosis: a population-based study. <i>Chest</i> , 2010 , 137, 129-37	5.3	332
111	The effects of changes in utilization and technological advancements of cross-sectional imaging on radiologist workload. <i>Academic Radiology</i> , 2015 , 22, 1191-8	4.3	132
110	Automated quantification of radiological patterns predicts survival in idiopathic pulmonary fibrosis. <i>European Respiratory Journal</i> , 2014 , 43, 204-12	13.6	129
109	Mortality associated with nephropathy after radiographic contrast exposure. <i>Mayo Clinic Proceedings</i> , 2008 , 83, 1095-100	6.4	126
108	Mortality prediction in idiopathic pulmonary fibrosis: evaluation of computer-based CT analysis with conventional severity measures. <i>European Respiratory Journal</i> , 2017 , 49,	13.6	119
107	Effect of Recombinant Human Pentraxin 2 vs Placebo on Change in Forced Vital Capacity in Patients With Idiopathic Pulmonary Fibrosis: A Randomized Clinical Trial. <i>JAMA - Journal of the American Medical Association</i> , 2018 , 319, 2299-2307	27.4	107
106	Automated Quantitative Computed Tomography Versus Visual Computed Tomography Scoring in Idiopathic Pulmonary Fibrosis: Validation Against Pulmonary Function. <i>Journal of Thoracic Imaging</i> , 2016 , 31, 304-11	5.6	99
105	Sodium bicarbonate is associated with an increased incidence of contrast nephropathy: a retrospective cohort study of 7977 patients at mayo clinic. <i>Clinical Journal of the American Society of Nephrology: CJASN</i> , 2008 , 3, 10-8	6.9	94
104	High resolution multidetector CT-aided tissue analysis and quantification of lung fibrosis. <i>Academic Radiology</i> , 2007 , 14, 772-87	4.3	93
103	Quantitative computed tomography imaging of interstitial lung diseases. <i>Journal of Thoracic Imaging</i> , 2013 , 28, 298-307	5.6	89
102	Predicting Outcomes in Idiopathic Pulmonary Fibrosis Using Automated Computed Tomographic Analysis. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2018 , 198, 767-776	10.2	80
101	Are airflow obstruction and radiographic evidence of emphysema risk factors for lung cancer? A nested case-control study using quantitative emphysema analysis. <i>Chest</i> , 2010 , 138, 1295-302	5.3	75
100	Clinical significance of radiologic characterizations in COPD. <i>COPD: Journal of Chronic Obstructive Pulmonary Disease</i> , 2009 , 6, 459-67	2	75
99	Iodixanol versus low-osmolar contrast media for prevention of contrast induced nephropathy: meta-analysis of randomized, controlled trials. <i>Circulation: Cardiovascular Interventions</i> , 2010 , 3, 351-8	6	71
98	Collapsibility of lung volume by paired inspiratory and expiratory CT scans: correlations with lung function and mean lung density. <i>Academic Radiology</i> , 2010 , 17, 489-95	4.3	68
97	Predicting outcomes in rheumatoid arthritis related interstitial lung disease. <i>European Respiratory Journal</i> , 2019 , 53,	13.6	66
96	Airway count and emphysema assessed by chest CT imaging predicts clinical outcome in smokers. <i>Chest</i> , 2010 , 138, 880-7	5.3	60

95	Methods and challenges in quantitative imaging biomarker development. <i>Academic Radiology</i> , 2015 , 22, 25-32	4.3	58
94	Recombinant human pentraxin-2 therapy in patients with idiopathic pulmonary fibrosis: safety, pharmacokinetics and exploratory efficacy. <i>European Respiratory Journal</i> , 2016 , 47, 889-97	13.6	54
93	Clinical utility of quantitative imaging. <i>Academic Radiology</i> , 2015 , 22, 33-49	4.3	53
92	Noninvasive characterization of the histopathologic features of pulmonary nodules of the lung adenocarcinoma spectrum using computer-aided nodule assessment and risk yield (CANARY)--a pilot study. <i>Journal of Thoracic Oncology</i> , 2013 , 8, 452-60	8.9	53
91	Functional and prognostic effects when emphysema complicates idiopathic pulmonary fibrosis. <i>European Respiratory Journal</i> , 2017 , 50,	13.6	50
90	Computer-aided detection and diagnosis at the start of the third millennium. <i>Journal of Digital Imaging</i> , 2002 , 15, 59-68	5.3	49
89	Relationship of emphysema and airway disease assessed by CT to exercise capacity in COPD. <i>Respiratory Medicine</i> , 2010 , 104, 1145-51	4.6	46
88	Evaluation of computer-based computer tomography stratification against outcome models in connective tissue disease-related interstitial lung disease: a patient outcome study. <i>BMC Medicine</i> , 2016 , 14, 190	11.4	46
87	Understanding interpretive errors in radiologists learning computed tomography colonography. <i>Academic Radiology</i> , 2004 , 11, 750-6	4.3	43
86	Quantitative CT Analysis of Diffuse Lung Disease. <i>Radiographics</i> , 2020 , 40, 28-43	5.4	41
85	Noninvasive Computed Tomography-based Risk Stratification of Lung Adenocarcinomas in the National Lung Screening Trial. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2015 , 192, 737-44	19.2	38
84	Predictors of idiopathic pulmonary fibrosis in absence of radiologic honeycombing: A cross sectional analysis in ILD patients undergoing lung tissue sampling. <i>Respiratory Medicine</i> , 2016 , 118, 88-95	4.6	38
83	The relationship between small pulmonary vascular alteration and aortic atherosclerosis in chronic obstructive pulmonary disease: quantitative CT analysis. <i>Academic Radiology</i> , 2011 , 18, 40-6	4.3	37
82	Pulmonary nodule characterization, including computer analysis and quantitative features. <i>Journal of Thoracic Imaging</i> , 2015 , 30, 139-56	5.6	36
81	An Ultrasound Surface Wave Technique for Assessing Skin and Lung Diseases. <i>Ultrasound in Medicine and Biology</i> , 2018 , 44, 321-331	3.5	36
80	Statin as a novel pharmacotherapy of pulmonary alveolar proteinosis. <i>Nature Communications</i> , 2018 , 9, 3127	17.4	35
79	Correlation of regional emphysema and lung cancer: a lung tissue research consortium-based study. <i>Journal of Thoracic Oncology</i> , 2014 , 9, 639-45	8.9	35
78	Iron deposition and increased alveolar septal capillary density in nonfibrotic lung tissue are associated with pulmonary hypertension in idiopathic pulmonary fibrosis. <i>Respiratory Research</i> , 2010 , 11, 37	7.3	35

77	Chronic hypersensitivity pneumonitis: identification of key prognostic determinants using automated CT analysis. <i>BMC Pulmonary Medicine</i> , 2017 , 17, 81	3.5	34
76	Serial automated quantitative CT analysis in idiopathic pulmonary fibrosis: functional correlations and comparison with changes in visual CT scores. <i>European Radiology</i> , 2018 , 28, 1318-1327	8	33
75	Development and validation of a radiological diagnosis model for hypersensitivity pneumonitis. <i>European Respiratory Journal</i> , 2018 , 52,	13.6	32
74	Gender influences Health-Related Quality of Life in IPF. <i>Respiratory Medicine</i> , 2010 , 104, 724-30	4.6	30
73	Unclassifiable-interstitial lung disease: Outcome prediction using CT and functional indices. <i>Respiratory Medicine</i> , 2017 , 130, 43-51	4.6	29
72	Experimental and quantitative imaging techniques in interstitial lung disease. <i>Thorax</i> , 2019 , 74, 611-619	7.3	28
71	Noninvasive risk stratification of lung adenocarcinoma using quantitative computed tomography. <i>Journal of Thoracic Oncology</i> , 2014 , 9, 1698-703	8.9	27
70	Assessment of Interstitial Lung Disease Using Lung Ultrasound Surface Wave Elastography: A Novel Technique With Clinicoradiologic Correlates. <i>Journal of Thoracic Imaging</i> , 2019 , 34, 313-319	5.6	25
69	Intrathoracic tracheal volume and collapsibility on inspiratory and end-expiratory ct scans correlations with lung volume and pulmonary function in 85 smokers. <i>Academic Radiology</i> , 2011 , 18, 299-305	4.3	24
68	Quantitative stratification of diffuse parenchymal lung diseases. <i>PLoS ONE</i> , 2014 , 9, e93229	3.7	22
67	Clinical correlations of immunophenotypic variations and the presence of trisomy 12 in B-cell chronic lymphocytic leukemia. <i>Cancer Genetics and Cytogenetics</i> , 1997 , 95, 173-7		21
66	Lung US Surface Wave Elastography in Interstitial Lung Disease Staging. <i>Radiology</i> , 2019 , 291, 479-484	20.5	20
65	ROC study of four LCD displays under typical medical center lighting conditions. <i>Journal of Digital Imaging</i> , 2006 , 19, 30-40	5.3	20
64	Combined pulmonary fibrosis and emphysema as a clinicoradiologic entity: Characterization of presenting lung fibrosis and implications for survival. <i>Respiratory Medicine</i> , 2019 , 146, 106-112	4.6	19
63	Likelihood of pulmonary hypertension in patients with idiopathic pulmonary fibrosis and emphysema. <i>Respirology</i> , 2018 , 23, 593-599	3.6	19
62	Syntactic and semantic errors in radiology reports associated with speech recognition software. <i>Health Informatics Journal</i> , 2017 , 23, 3-13	3	17
61	Spirometric assessment of emphysema presence and severity as measured by quantitative CT and CT-based radiomics in COPD. <i>Respiratory Research</i> , 2019 , 20, 101	7.3	17
60	Evaluation of visual and computer-based CT analysis for the identification of functional patterns of obstruction and restriction in hypersensitivity pneumonitis. <i>Respirology</i> , 2017 , 22, 1585-1591	3.6	17

59	Novel high-resolution computed tomography-based radiomic classifier for screen-identified pulmonary nodules in the National Lung Screening Trial. <i>PLoS ONE</i> , 2018 , 13, e0196910	3.7	17
58	Kurtosis and skewness of density histograms on inspiratory and expiratory CT scans in smokers. <i>COPD: Journal of Chronic Obstructive Pulmonary Disease</i> , 2011 , 8, 13-20	2	16
57	Immune signatures underlying post-acute COVID-19 lung sequelae. <i>Science Immunology</i> , 2021 , 6, eabk1748	1.8	16
56	Optimizing non-local means for denoising low dose CT 2009 ,		14
55	Automated Computed Tomography analysis in the assessment of Idiopathic Pulmonary Fibrosis severity and progression. <i>European Journal of Radiology</i> , 2020 , 124, 108852	4.7	13
54	Implications of the updated Lung CT Screening Reporting and Data System (Lung-RADS version 1.1) for lung cancer screening. <i>Journal of Thoracic Disease</i> , 2020 , 12, 6966-6977	2.6	12
53	Mycophenolate mofetil for scleroderma-related interstitial lung disease: A real world experience. <i>PLoS ONE</i> , 2017 , 12, e0177107	3.7	12
52	Computed Tomography-Based Score Indicative of Lung Cancer Aggression (SILA) Predicts the Degree of Histologic Tissue Invasion and Patient Survival in Lung Adenocarcinoma Spectrum. <i>Journal of Thoracic Oncology</i> , 2019 , 14, 1419-1429	8.9	12
51	Reviews in radiology informatics: establishing a core informatics curriculum. <i>Journal of Digital Imaging</i> , 2004 , 17, 244-8	5.3	12
50	Stratification of long-term outcome in stable idiopathic pulmonary fibrosis by combining longitudinal computed tomography and forced vital capacity. <i>European Radiology</i> , 2020 , 30, 2669-2679	8	11
49	Longitudinal prediction of outcome in idiopathic pulmonary fibrosis using automated CT analysis. <i>European Respiratory Journal</i> , 2019 , 54,	13.6	11
48	SCAR R&D Symposium 2003: comparing the efficacy of 5-MP CRT versus 3-MP LCD in the evaluation of interstitial lung disease. <i>Journal of Digital Imaging</i> , 2004 , 17, 149-57	5.3	11
47	Correlation of pulmonary function and usual interstitial pneumonia computed tomography patterns in idiopathic pulmonary fibrosis. <i>Respiratory Medicine</i> , 2017 , 129, 152-157	4.6	10
46	Short-term Automated Quantification of Radiologic Changes in the Characterization of Idiopathic Pulmonary Fibrosis Versus Nonspecific Interstitial Pneumonia and Prediction of Long-term Survival. <i>Journal of Thoracic Imaging</i> , 2018 , 33, 124-131	5.6	10
45	Do we need to see to believe?-radiomics for lung nodule classification and lung cancer risk stratification. <i>Journal of Thoracic Disease</i> , 2020 , 12, 3303-3316	2.6	9
44	Laterality errors in radiology reports generated with and without voice recognition software: frequency and clinical significance. <i>Journal of the American College of Radiology</i> , 2013 , 10, 538-43	3.5	9
43	Novel Assessment of Interstitial Lung Disease Using the "Computer-Aided Lung Informatics for Pathology Evaluation and Rating" (CALIPER) Software System in Idiopathic Inflammatory Myopathies. <i>Lung</i> , 2017 , 195, 545-552	2.9	9
42	Selection of appropriate computed tomographic image reconstruction algorithms for a quantitative multicenter trial of diffuse lung disease. <i>Journal of Computer Assisted Tomography</i> , 2008 , 32, 233-7	2.2	9

41	Comparison of Total Lung Capacity Determined by Plethysmography With Computed Tomographic Segmentation Using CALIPER. <i>Journal of Thoracic Imaging</i> , 2017 , 32, 101-106	5.6	8
40	Artificial Intelligence in Radiology: A Call for Thoughtful Application. <i>Clinical and Translational Science</i> , 2020 , 13, 216-218	4.9	8
39	Computer-Aided Nodule Assessment and Risk Yield Risk Management of Adenocarcinoma: The Future of Imaging?. <i>Seminars in Thoracic and Cardiovascular Surgery</i> , 2016 , 28, 120-6	1.7	8
38	Computer-Aided Nodule Assessment and Risk Yield (CANARY) may facilitate non-invasive prediction of EGFR mutation status in lung adenocarcinomas. <i>Scientific Reports</i> , 2017 , 7, 17620	4.9	7
37	The electronic imaging technology specialist: the role of a new radiology subspecialty for the 21st century. <i>Journal of Digital Imaging</i> , 2002 , 15 Suppl 1, 184-8	5.3	7
36	Sensitivity of Thoracic Digital Tomosynthesis (DTS) for the Identification of Lung Nodules. <i>Journal of Digital Imaging</i> , 2016 , 29, 141-7	5.3	7
35	Syntactic and Semantic Errors in Radiology Reports Associated With Speech Recognition Software. <i>Studies in Health Technology and Informatics</i> , 2015 , 216, 922	0.5	7
34	Predicting lung mass density of patients with interstitial lung disease and healthy subjects using deep neural network and lung ultrasound surface wave elastography. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2020 , 104, 103682	4.1	6
33	Assessing the inter-observer variability of Computer-Aided Nodule Assessment and Risk Yield (CANARY) to characterize lung adenocarcinomas. <i>PLoS ONE</i> , 2018 , 13, e0198118	3.7	6
32	Processing of CT images for analysis of diffuse lung disease in the lung tissue research consortium 2008 ,		6
31	Putting artificial intelligence (AI) on the spot: machine learning evaluation of pulmonary nodules. <i>Journal of Thoracic Disease</i> , 2020 , 12, 6954-6965	2.6	6
30	Quantitative analysis of lung sounds for monitoring idiopathic pulmonary fibrosis: a prospective pilot study. <i>European Respiratory Journal</i> , 2019 , 53,	13.6	6
29	Effect of automated image registration on radiologist interpretation. <i>Journal of Digital Imaging</i> , 2007 , 20, 105-13	5.3	5
28	Automated computed tomography quantification of fibrosis predicts prognosis in combined pulmonary fibrosis and emphysema in a real-world setting: a single-centre, retrospective study. <i>Respiratory Research</i> , 2020 , 21, 275	7.3	5
27	Automated Parenchymal Pattern Analysis of Treatment Responses in Pulmonary Alveolar Proteinosis. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2019 , 199, 1151-1152	10.2	4
26	COVID-19: The Importance of Multidisciplinary Approach. <i>Academic Radiology</i> , 2020 , 27, 1327-1328	4.3	4
25	Assessment of interstitial lung disease using lung ultrasound surface wave elastography 2017 ,		4
24	Nonlinear histogram binning for quantitative analysis of lung tissue fibrosis in high-resolution CT data 2007 ,		4

23	Validation of the BRODERS classifier (Benign aggressive nodule Evaluation using Radiomic Stratification), a novel HRCT-based radiomic classifier for indeterminate pulmonary nodules. <i>European Respiratory Journal</i> , 2021 , 57,	13.6	4
22	A quantitative method for measuring the changes of lung surface wave speed for assessing disease progression of interstitial lung disease. <i>Ultrasound in Medicine and Biology</i> , 2019 , 45, 741-748	3.5	4
21	Lung mass density prediction using machine learning based on ultrasound surface wave elastography and pulmonary function testing. <i>Journal of the Acoustical Society of America</i> , 2021 , 149, 1318	2.2	4
20	Referenceless stratification of parenchymal lung abnormalities. <i>Lecture Notes in Computer Science</i> , 2011 , 14, 223-30	0.9	3
19	Automated CT Analysis of Major Forms of Interstitial Lung Disease. <i>Journal of Clinical Medicine</i> , 2020 , 9,	5.1	3
18	Computer Aided Nodule Analysis and Risk Yield (CANARY) characterization of adenocarcinoma: radiologic biopsy, risk stratification and future directions. <i>Translational Lung Cancer Research</i> , 2018 , 7, 313-326	4.4	3
17	Imaging informatics: challenges in multi-site imaging trials. <i>Journal of Digital Imaging</i> , 2011 , 24, 151-9	5.3	2
16	3D MORPHOLOGICAL ANALYSIS OF LUNG PATHOLOGY 2007 ,		2
15	Breathe New Life Into Your Chest CT Exams: Using Advanced Acquisition and Postprocessing Techniques. <i>Current Problems in Diagnostic Radiology</i> , 2019 , 48, 152-160	1.6	2
14	Cicatricial organizing pneumonia: a clinicopathologic and radiologic study on a cohort diagnosed by surgical lung biopsy at a single institution. <i>Human Pathology</i> , 2020 , 101, 58-63	3.7	1
13	Active relearning for robust supervised training of emphysema patterns. <i>Journal of Digital Imaging</i> , 2014 , 27, 548-55	5.3	1
12	Quantitative assessment of scleroderma using ultrasound surface wave elastography 2017 ,		1
11	Automated segmentation of the lungs from high resolution CT images for quantitative study of chronic obstructive pulmonary diseases 2005 , 5744, 5		1
10	Pulmonary Low Attenuation Areas on CT in ANCA-associated Vasculitis: A quantitative and semi-quantitative analysis correlated with pulmonary function testing for obstructive airway disease. <i>Sarcoidosis Vasculitis and Diffuse Lung Diseases</i> , 2020 , 37, e2020016	1.1	1
9	Vessel-related structures predict UIP pathology in those with a non-IPF pattern on CT. <i>European Radiology</i> , 2021 , 31, 7295-7302	8	1
8	Appreciating the shades of gray: a case for Computer-Aided Nodule Assessment and Risk Yield (CANARY)-based risk stratification of lung adenocarcinomas. <i>Journal of Thoracic Disease</i> , 2016 , 8, E1438-E1440 ¹	2.6	1
7	Detail-on-demand visualization for lean understanding of lung abnormalities. <i>Studies in Health Technology and Informatics</i> , 2012 , 173, 362-8	0.5	1
6	Optimization of CT image reconstruction algorithms for the lung tissue research consortium (LTRC) 2006 , 6143, 942		0

- 5 High resolution multidetector CT aided tissue analysis and quantification of lung fibrosis **2006**, 6143, 931
- 4 Parametric modeling for quantitative analysis of pulmonary structure to function relationships **2005**, 5744, 184
- 3 Lung vessel volume evaluated with CALIPER software is an independent predictor of mortality in COVID-19 patients: a multicentric retrospective analysis.. *European Radiology*, **2022**, 1 8
- 2 Sex Differences in the Diameter of Extra-parenchymal Airways in a Large Cohort of Healthy Adult Non-smokers. *FASEB Journal*, **2019**, 33, 735.1 0.9
- 1 Evaluation of Computer-Aided Nodule Assessment and Risk Yield (CANARY) in Korean patients for prediction of invasiveness of ground-glass opacity nodule. *PLoS ONE*, **2021**, 16, e0253204 3.7