Matthew S Brown

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	The Lung Image Database Consortium (LIDC) and Image Database Resource Initiative (IDRI): A Completed Reference Database of Lung Nodules on CT Scans. Medical Physics, 2011, 38, 915-931.	1.6	1,659
2	Recurrent Glioblastoma Multiforme: ADC Histogram Analysis Predicts Response to Bevacizumab Treatment. Radiology, 2009, 252, 182-189.	3.6	317
3	The Lung Image Database Consortium (LIDC) Data Collection Process for Nodule Detection and Annotation. Academic Radiology, 2007, 14, 1464-1474.	1.3	191
4	Emphysema: Effect of Reconstruction Algorithm on CT Imaging Measures. Radiology, 2004, 232, 295-301.	3.6	169
5	Lung Micronodules: Automated Method for Detection at Thin-Section CT—Initial Experience. Radiology, 2003, 226, 256-262.	3.6	130
6	Comparison of treatment response classifications between unidimensional, bidimensional, and volumetric measurements of metastatic lung lesions on chest computed tomography1. Academic Radiology, 2004, 11, 1355-1360.	1.3	115
7	Quantitative texture-based assessment of one-year changes in fibrotic reticular patterns on HRCT in scleroderma lung disease treated with oral cyclophosphamide. European Radiology, 2011, 21, 2455-2465.	2.3	99
8	Comparison of the Quantitative CT Imaging Biomarkers of Idiopathic Pulmonary Fibrosis at Baseline and Early Change with an Interval of 7ÂMonths. Academic Radiology, 2015, 22, 70-80.	1.3	99
9	The Lung Image Database Consortium (LIDC): An Evaluation of Radiologist Variability in the Identification of Lung Nodules on CT Scans. Academic Radiology, 2007, 14, 1409-1421.	1.3	91
10	Time-resolved study of polyimide absorption layers for blister-actuated laser-induced forward transfer. Journal of Applied Physics, 2010, 107, 083103.	1.1	88
11	Knowledge-based method for segmentation and analysis of lung boundaries in chest X-ray images. Computerized Medical Imaging and Graphics, 1998, 22, 463-477.	3.5	85
12	Diagnostic performance comparison of the <scp>C</scp> hartis <scp>S</scp> ystem and highâ€resolution computerized tomography fissure analysis for planning endoscopic lung volume reduction. Respirology, 2014, 19, 524-530.	1.3	84
13	Computer-aided Lung Nodule Detection in CT. Academic Radiology, 2005, 12, 681-686.	1.3	82
14	Impulsively actuated jets from thin liquid films for high-resolution printing applications. Journal of Fluid Mechanics, 2012, 709, 341-370.	1.4	77
15	Automated classification of lung bronchovascular anatomy in CT using AdaBoost. Medical Image Analysis, 2007, 11, 315-324.	7.0	76
16	Time-resolved dynamics of laser-induced micro-jets from thin liquid films. Microfluidics and Nanofluidics, 2011, 11, 199-207.	1.0	76
17	Deep learning and radiomics: the utility of Google TensorFlowâ,,¢ Inception in classifying clear cell renal cell carcinoma and oncocytoma on multiphasic CT. Abdominal Radiology, 2019, 44, 2009-2020.	1.0	73
18	Knowledge-based segmentation of thoracic computed tomography images for assessment of split lung function. Medical Physics, 2000, 27, 592-598.	1.6	61

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19	Classification of Parenchymal Abnormality in Scleroderma Lung Using a Novel Approach to Denoise Images Collected via a Multicenter Study. Academic Radiology, 2008, 15, 1004-1016.	1.3	61
20	Automatic Segmentation of Lung Parenchyma in the Presence of Diseases Based on Curvature of Ribs. Academic Radiology, 2008, 15, 1173-1180.	1.3	58
21	Toward clinically usable CAD for lung cancer screening with computed tomography. European Radiology, 2014, 24, 2719-2728.	2.3	52
22	The Effect of Lung Volume on Nodule Size on CT. Academic Radiology, 2007, 14, 476-485.	1.3	51
23	A method for the automatic quantification of the completeness of pulmonary fissures: evaluation in a database of subjects with severe emphysema. European Radiology, 2012, 22, 302-309.	2.3	50
24	Computer-aided quantitative bone scan assessment of prostate cancer treatment response. Nuclear Medicine Communications, 2012, 33, 384-394.	0.5	45
25	Finite element analysis of blister formation in laser-induced forward transfer. Journal of Materials Research, 2011, 26, 2438-2449.	1.2	44
26	Pulmonary nodule characterization: A comparison of conventional with quantitative and visual semi-quantitative analyses using contrast enhancement maps. European Journal of Radiology, 2006, 59, 244-252.	1.2	43
27	Reproducibility of Lung and Lobar Volume Measurements Using Computed Tomography. Academic Radiology, 2010, 17, 316-322.	1.3	43
28	Computer-aided Diagnosis in Lung Nodule Assessment. Journal of Thoracic Imaging, 2008, 23, 97-104.	0.8	41
29	Prediction of idiopathic pulmonary fibrosis progression using early quantitative changes on CT imaging for a short term of clinical 18–24-month follow-ups. European Radiology, 2020, 30, 726-734.	2.3	38
30	Medical Image Segmentation with Knowledge-guided Robust Active Contours. Radiographics, 2002, 22, 437-448.	1.4	37
31	Emphysema lung lobe volume reduction: effects on the ipsilateral and contralateral lobes. European Radiology, 2012, 22, 1547-1555.	2.3	36
32	Transitions to different patterns of interstitial lung disease in scleroderma with and without treatment. Annals of the Rheumatic Diseases, 2016, 75, 1367-1371.	0.5	35
33	Quantitative computer-aided diagnostic algorithm for automated detection of peak lesion attenuation in differentiating clear cell from papillary and chromophobe renal cell carcinoma, oncocytoma, and fat-poor angiomyolipoma on multiphasic multidetector computed tomography. Abdominal Radiology, 2017, 42, 1919-1928.	1.0	32
34	Database Design and Implementation for Quantitative Image Analysis Research. IEEE Transactions on Information Technology in Biomedicine, 2005, 9, 99-108.	3.6	28
35	Reproducibility of volume and densitometric measures of emphysema on repeat computed tomography with an interval of 1Âweek. European Radiology, 2012, 22, 287-294.	2.3	25
36	Prediction of progression in idiopathic pulmonary fibrosis using CT scans at baseline: A quantum particle swarm optimization - Random forest approach. Artificial Intelligence in Medicine, 2019, 100, 101709.	3.8	22

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37	Association of qualitative and quantitative imaging features on multiphasic multidetector CT with tumor grade in clear cell renal cell carcinoma. Abdominal Radiology, 2019, 44, 180-189.	1.0	21
38	Knowledge-Based Segmentation of Pediatric Kidneys in CT for Measurement of Parenchymal Volume. Journal of Computer Assisted Tomography, 2001, 25, 639-648.	0.5	17
39	CAD in clinical trials: Current role and architectural requirements. Computerized Medical Imaging and Graphics, 2007, 31, 332-337.	3.5	16
40	Using Transitional Changes on Highâ€Resolution Computed Tomography to Monitor the Impact of Cyclophosphamide or Mycophenolate Mofetil on Systemic Sclerosis–Related Interstitial Lung Disease. Arthritis and Rheumatology, 2020, 72, 316-325.	2.9	14
41	Radiographic read paradigms and the roles of the central imaging laboratory in neuro-oncology clinical trials. Neuro-Oncology, 2021, 23, 189-198.	0.6	11
42	Association of tumor grade, enhancement on multiphasic CT and microvessel density in patients with clear cell renal cell carcinoma. Abdominal Radiology, 2020, 45, 3184-3192.	1.0	10
43	Automated Endotracheal Tube Placement Check Using Semantically Embedded Deep Neural Networks. Academic Radiology, 2023, 30, 412-420.	1.3	10
44	CADrx for GBM Brain Tumors: Predicting Treatment Response from Changes in Diffusion-Weighted MRI. Algorithms, 2009, 2, 1350-1367.	1.2	8
45	Quantitative bone scan lesion area as an early surrogate outcome measure indicative of overall survival in metastatic prostate cancer. Journal of Medical Imaging, 2018, 5, 1.	0.8	8
46	Model-based assessment of lung structures: inferencing and control system. , 1995, , .		7
47	<title>Knowledge-based automated technique for measuring total lung volume from CT</title> . , 1996, , .		7
48	<title>Extensible knowledge-based architecture for segmenting CT data</title> . , 1998, 3338, 564.		7
49	Interactive lung segmentation in abnormal human and animal chest CT scans. Medical Physics, 2014, 41, 081915.	1.6	7
50	An exploratory analysis of bone scan lesion area (BSLA), circulating tumor cell (CTC) change, pain reduction, and overall survival (OS) in patients (pts) with castration-resistant prostate cancer (CRPC) treated with cabozantinib (cabo): Updated results of a phase II nonrandomized expansion (NRE) cohort Journal of Clinical Oncology, 2013, 31, 5026-5026.	0.8	7
51	<title>Object-oriented region-of-interest toolkit for workstations</title> ., 1998, 3335, 627.		6
52	<title>Application development environment for advanced digital workstations</title> ., 1998, , .		6
53	An Architecture for Computer-Aided Detection and Radiologic Measurement of Lung Nodules in Clinical Trials. Cancer Informatics, 2007, 4, 117693510700400.	0.9	5
54	An architecture for computer-aided detection and radiologic measurement of lung nodules in clinical trials. Cancer Informatics, 2007, 4, 25-31.	0.9	4

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55	The effects of slice thickness and radiation dose level variations on computer-aided diagnosis (CAD) nodule detection performance in pediatric chest CT scans. , 2017, , .		3
56	CADrx for GBM Brain Tumors. Advances in Bioinformatics and Biomedical Engineering Book Series, 2012, , 297-314.	0.2	3
57	Unusual Presentation of Infantile Myofibroma in the Deep Palm of a Child: A Case Report and Discussion of the Differential Diagnosis. Journal of Hand Surgery, 2017, 42, e193-e198.	0.7	2
58	The effects of variations in parameters and algorithm choices on calculated radiomics feature values: initial investigations and comparisons to feature variability across CT image acquisition conditions. , 2018, , .		2
59	Automated tumor size assessment: Consistency of computer measurements with an expert panel Journal of Clinical Oncology, 2013, 31, 7566-7566.	0.8	2
60	Towards quantitative imaging: stability of fully automated nodule segmentation across varied dose levels and reconstruction parameters in a low-dose CT screening patient cohort. , 2018, , .		2
61	<title>Patient-specific models for lung nodule detection and surveillance in CT images</title> . , 2001, ,		1
62	Preliminary results of automated removal of degenerative joint disease in bone scan lesion segmentation. Proceedings of SPIE, 2013, , .	0.8	1
63	Automated segmentation of pulmonary lobes in chest CT scans using evolving surfaces. , 2013, , .		1
64	Differentiation of low grade from high grade clear cell renal cell carcinoma neoplasms using a CAD algorithm on four-phase CT Journal of Clinical Oncology, 2016, 34, 4564-4564.	0.8	1
65	Effects of CT dose and nodule characteristics on lung-nodule detectability in a cohort of 90 national lung screening trial patients. , 2016, , .		Ο
66	Computer-aided bone scan lesion area quantitation: Inter-reader measurement variability Journal of Clinical Oncology, 2013, 31, e16019-e16019.	0.8	0
67	Computer-aided lung cancer screening with CT: A clinically usable nodule detection and assessment system Journal of Clinical Oncology, 2013, 31, 7562-7562.	0.8	0
68	CAD-based discrimination of clear cell renal cell carcinoma from RCC subtypes and benign small renal masses at multidector CT Journal of Clinical Oncology, 2015, 33, e15616-e15616.	0.8	0
69	Predicting the outcome of percutaneous biopsy in renal neoplasms using a CAD algorithm to derive peak lesion enhancement on four-phase CT Journal of Clinical Oncology, 2016, 34, e16067-e16067.	0.8	Ο
70	Correlation of tumor enhancement and imaging features on multiphasic multidetector CT with microvessel density as a step toward a minimally invasive method to predict Fuhrman nuclear grade in patients with clear cell renal cell carcinoma Journal of Clinical Oncology, 2017, 35, e16049-e16049.	0.8	0
71	High throughput image labeling on chest computed tomography by deep learning. Journal of Medical Imaging, 2020, 7, 1.	0.8	0