

Matthew S Brown

List of Publications by Year in descending order

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4,504
citations

136740

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155451

55
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all docs

72
docs citations

72
times ranked

4941
citing authors

#	ARTICLE	IF	CITATIONS
1	Automated Endotracheal Tube Placement Check Using Semantically Embedded Deep Neural Networks. <i>Academic Radiology</i> , 2023, 30, 412-420.	1.3	10
2	Radiographic read paradigms and the roles of the central imaging laboratory in neuro-oncology clinical trials. <i>Neuro-Oncology</i> , 2021, 23, 189-198.	0.6	11
3	Using Transitional Changes on High-Resolution Computed Tomography to Monitor the Impact of Cyclophosphamide or Mycophenolate Mofetil on Systemic Sclerosis-Related Interstitial Lung Disease. <i>Arthritis and Rheumatology</i> , 2020, 72, 316-325.	2.9	14
4	Prediction of idiopathic pulmonary fibrosis progression using early quantitative changes on CT imaging for a short term of clinical 18-24-month follow-ups. <i>European Radiology</i> , 2020, 30, 726-734.	2.3	38
5	Association of tumor grade, enhancement on multiphase CT and microvessel density in patients with clear cell renal cell carcinoma. <i>Abdominal Radiology</i> , 2020, 45, 3184-3192.	1.0	10
6	High throughput image labeling on chest computed tomography by deep learning. <i>Journal of Medical Imaging</i> , 2020, 7, 1.	0.8	0
7	Association of qualitative and quantitative imaging features on multiphase multidetector CT with tumor grade in clear cell renal cell carcinoma. <i>Abdominal Radiology</i> , 2019, 44, 180-189.	1.0	21
8	Prediction of progression in idiopathic pulmonary fibrosis using CT scans at baseline: A quantum particle swarm optimization - Random forest approach. <i>Artificial Intelligence in Medicine</i> , 2019, 100, 101709.	3.8	22
9	Deep learning and radiomics: the utility of Google TensorFlow, Inception in classifying clear cell renal cell carcinoma and oncocytoma on multiphase CT. <i>Abdominal Radiology</i> , 2019, 44, 2009-2020.	1.0	73
10	Quantitative bone scan lesion area as an early surrogate outcome measure indicative of overall survival in metastatic prostate cancer. <i>Journal of Medical Imaging</i> , 2018, 5, 1.	0.8	8
11	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
12	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
13	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
14	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 multiphase multidetector computed tomography. <i>Abdominal Radiology</i> , 2017, 42, 1919-1928.	1.0	32
15	Unusual Presentation of Infantile Myofibroma in the Deep Palm of a Child: A Case Report and Discussion of the Differential Diagnosis. <i>Journal of Hand Surgery</i> , 2017, 42, e193-e198.	0.7	2
16	Correlation of tumor enhancement and imaging features on multiphase 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.. <i>Journal of Clinical Oncology</i> , 2017, 35, e16049-e16049.	0.8	0
17	Effects of CT dose and nodule characteristics on lung-nodule detectability in a cohort of 90 national lung screening trial patients. , 2016, , .		0
18	Transitions to different patterns of interstitial lung disease in scleroderma with and without treatment. <i>Annals of the Rheumatic Diseases</i> , 2016, 75, 1367-1371.	0.5	35

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19	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	0
20	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
21	Comparison of the Quantitative CT Imaging Biomarkers of Idiopathic Pulmonary Fibrosis at Baseline and Early Change with an Interval of 7Months. Academic Radiology, 2015, 22, 70-80.	1.3	99
22	CAD-based discrimination of clear cell renal cell carcinoma from RCC subtypes and benign small renal masses at multidetector CT.. Journal of Clinical Oncology, 2015, 33, e15616-e15616.	0.8	0
23	Interactive lung segmentation in abnormal human and animal chest CT scans. Medical Physics, 2014, 41, 081915.	1.6	7
24	Diagnostic performance comparison of the <sc>C</sc>hartis <sc>S</sc>ystem and high-resolution computerized tomography fissure analysis for planning endoscopic lung volume reduction. Respirology, 2014, 19, 524-530.	1.3	84
25	Toward clinically usable CAD for lung cancer screening with computed tomography. European Radiology, 2014, 24, 2719-2728.	2.3	52
26	Preliminary results of automated removal of degenerative joint disease in bone scan lesion segmentation. Proceedings of SPIE, 2013, , .	0.8	1
27	Automated segmentation of pulmonary lobes in chest CT scans using evolving surfaces. , 2013, , .		1
28	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
29	Automated tumor size assessment: Consistency of computer measurements with an expert panel.. Journal of Clinical Oncology, 2013, 31, 7566-7566.	0.8	2
30	Computer-aided bone scan lesion area quantitation: Inter-reader measurement variability.. Journal of Clinical Oncology, 2013, 31, e16019-e16019.	0.8	0
31	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
32	Computer-aided quantitative bone scan assessment of prostate cancer treatment response. Nuclear Medicine Communications, 2012, 33, 384-394.	0.5	45
33	Impulsively actuated jets from thin liquid films for high-resolution printing applications. Journal of Fluid Mechanics, 2012, 709, 341-370.	1.4	77
34	Reproducibility of volume and densitometric measures of emphysema on repeat computed tomography with an interval of 1Week. European Radiology, 2012, 22, 287-294.	2.3	25
35	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
36	Emphysema lung lobe volume reduction: effects on the ipsilateral and contralateral lobes. European Radiology, 2012, 22, 1547-1555.	2.3	36

#	ARTICLE	IF	CITATIONS
37	CADrx for GBM Brain Tumors. Advances in Bioinformatics and Biomedical Engineering Book Series, 2012, , 297-314.	0.2	3
38	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
39	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
40	Time-resolved dynamics of laser-induced micro-jets from thin liquid films. Microfluidics and Nanofluidics, 2011, 11, 199-207.	1.0	76
41	Finite element analysis of blister formation in laser-induced forward transfer. Journal of Materials Research, 2011, 26, 2438-2449.	1.2	44
42	Time-resolved study of polyimide absorption layers for blister-actuated laser-induced forward transfer. Journal of Applied Physics, 2010, 107, 083103.	1.1	88
43	Reproducibility of Lung and Lobar Volume Measurements Using Computed Tomography. Academic Radiology, 2010, 17, 316-322.	1.3	43
44	CADrx for GBM Brain Tumors: Predicting Treatment Response from Changes in Diffusion-Weighted MRI. Algorithms, 2009, 2, 1350-1367.	1.2	8
45	Recurrent Glioblastoma Multiforme: ADC Histogram Analysis Predicts Response to Bevacizumab Treatment. Radiology, 2009, 252, 182-189.	3.6	317
46	Automatic Segmentation of Lung Parenchyma in the Presence of Diseases Based on Curvature of Ribs. Academic Radiology, 2008, 15, 1173-1180.	1.3	58
47	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
48	Computer-aided Diagnosis in Lung Nodule Assessment. Journal of Thoracic Imaging, 2008, 23, 97-104.	0.8	41
49	The Lung Image Database Consortium (LIDC) Data Collection Process for Nodule Detection and Annotation. Academic Radiology, 2007, 14, 1464-1474.	1.3	191
50	The Effect of Lung Volume on Nodule Size on CT. Academic Radiology, 2007, 14, 476-485.	1.3	51
51	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
52	An Architecture for Computer-Aided Detection and Radiologic Measurement of Lung Nodules in Clinical Trials. Cancer Informatics, 2007, 4, 117693510700400.	0.9	5
53	Automated classification of lung bronchovascular anatomy in CT using AdaBoost. Medical Image Analysis, 2007, 11, 315-324.	7.0	76
54	CAD in clinical trials: Current role and architectural requirements. Computerized Medical Imaging and Graphics, 2007, 31, 332-337.	3.5	16

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55	An architecture for computer-aided detection and radiologic measurement of lung nodules in clinical trials. <i>Cancer Informatics</i> , 2007, 4, 25-31.	0.9	4
56	Pulmonary nodule characterization: A comparison of conventional with quantitative and visual semi-quantitative analyses using contrast enhancement maps. <i>European Journal of Radiology</i> , 2006, 59, 244-252.	1.2	43
57	Database Design and Implementation for Quantitative Image Analysis Research. <i>IEEE Transactions on Information Technology in Biomedicine</i> , 2005, 9, 99-108.	3.6	28
58	Computer-aided Lung Nodule Detection in CT. <i>Academic Radiology</i> , 2005, 12, 681-686.	1.3	82
59	Emphysema: Effect of Reconstruction Algorithm on CT Imaging Measures. <i>Radiology</i> , 2004, 232, 295-301.	3.6	169
60	Comparison of treatment response classifications between unidimensional, bidimensional, and volumetric measurements of metastatic lung lesions on chest computed tomography. <i>Academic Radiology</i> , 2004, 11, 1355-1360.	1.3	115
61	Lung Micronodules: Automated Method for Detection at Thin-Section CT—Initial Experience. <i>Radiology</i> , 2003, 226, 256-262.	3.6	130
62	Medical Image Segmentation with Knowledge-guided Robust Active Contours. <i>Radiographics</i> , 2002, 22, 437-448.	1.4	37
63	Knowledge-Based Segmentation of Pediatric Kidneys in CT for Measurement of Parenchymal Volume. <i>Journal of Computer Assisted Tomography</i> , 2001, 25, 639-648.	0.5	17
64	<title>Patient-specific models for lung nodule detection and surveillance in CT images</title>. , 2001, , .		1
65	Knowledge-based segmentation of thoracic computed tomography images for assessment of split lung function. <i>Medical Physics</i> , 2000, 27, 592-598.	1.6	61
66	Knowledge-based method for segmentation and analysis of lung boundaries in chest X-ray images. <i>Computerized Medical Imaging and Graphics</i> , 1998, 22, 463-477.	3.5	85
67	<title>Object-oriented region-of-interest toolkit for workstations</title>. , 1998, 3335, 627.		6
68	<title>Extensible knowledge-based architecture for segmenting CT data</title>. , 1998, 3338, 564.		7
69	<title>Application development environment for advanced digital workstations</title>. , 1998, , .		6
70	<title>Knowledge-based automated technique for measuring total lung volume from CT</title>. , 1996, , .		7
71	Model-based assessment of lung structures: inferencing and control system. , 1995, , .		7