Samuel G Armato Iii

List of Publications by Year
in descending order

95 papers	5,553 citations	136740 32 h-index	79541 73 g-index
96 all docs	96 docs citations	96 times ranked	5355 citing authors

#	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	Treatment of Malignant Pleural Mesothelioma: American Society of Clinical Oncology Clinical Practice Guideline. Journal of Clinical Oncology, 2018, 36, 1343-1373.	0.8	324
3	Lung Cancer: Performance of Automated Lung Nodule Detection Applied to Cancers Missed in a CT Screening Program. Radiology, 2002, 225, 685-692.	3.6	264
4	Automated lung segmentation for thoracic CT. Academic Radiology, 2004, 11, 1011-1021.	1.3	254
5	Massive training artificial neural network (MTANN) for reduction of false positives in computerized detection of lung nodules in low-dose computed tomography. Medical Physics, 2003, 30, 1602-1617.	1.6	226
6	Automated detection of lung nodules in CT scans: Preliminary results. Medical Physics, 2001, 28, 1552-1561.	1.6	217
7	Lung Texture in Serial Thoracic Computed Tomography Scans: Correlation of Radiomics-based Features With Radiation Therapy Dose and Radiation Pneumonitis Development. International Journal of Radiation Oncology Biology Physics, 2015, 91, 1048-1056.	0.4	192
8	Autosegmentation for thoracic radiation treatment planning: A grand challenge at AAPM 2017. Medical Physics, 2018, 45, 4568-4581.	1.6	169
9	EURACAN/IASLC Proposals for Updating the Histologic Classification of Pleural Mesothelioma: Towards a More Multidisciplinary Approach. Journal of Thoracic Oncology, 2020, 15, 29-49.	0.5	106
10	087001.	1.6	102
11	PROSTATEx Challenges for computerized classification of prostate lesions from multiparametric magnetic resonance images. Journal of Medical Imaging, 2018, 5, 1.	0.8	98
12	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
13	Mixture of expert 3D massive-training ANNs for reduction of multiple types of false positives in CAD for detection of polyps in CT colonography. Medical Physics, 2008, 35, 694-703.	1.6	89
14	Revised Modified Response Evaluation Criteria in Solid Tumors for Assessment of Response in Malignant Pleural Mesothelioma (Version 1.1). Journal of Thoracic Oncology, 2018, 13, 1012-1021.	0.5	85
15	LUNGx Challenge for computerized lung nodule classification. Journal of Medical Imaging, 2016, 3, 044506.	0.8	80
16	Automated lung nodule classification following automated nodule detection on CT: A serial approach. Medical Physics, 2003, 30, 1188-1197.	1.6	75
17	Measurement of mesothelioma on thoracic CT scans: A comparison of manual and computer-assisted techniques. Medical Physics, 2004, 31, 1105-1115.	1.6	72
18	Assessment of Radiologist Performance in the Detection of Lung Nodules. Academic Radiology, 2009, 16, 28-38.	1.3	67

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19	CT-Based Pulmonary Artery Measurements for the Assessment of Pulmonary Hypertension. Academic Radiology, 2014, 21, 523-530.	1.3	64
20	Variation in algorithm implementation across radiomics software. Journal of Medical Imaging, 2018, 5, 1.	0.8	60
21	Modeling of mesothelioma growth demonstrates weaknesses of current response criteria. Lung Cancer, 2006, 52, 141-148.	0.9	55
22	Predicting Radiological Panel Opinions Using a Panel of Machine Learning Classifiers. Algorithms, 2009, 2, 1473-1502.	1.2	53
23	Computerized segmentation and measurement of malignant pleural mesothelioma. Medical Physics, 2011, 38, 238-244.	1.6	51
24	Guest Editorial: LUNGx Challenge for computerized lung nodule classification: reflections and lessons learned. Journal of Medical Imaging, 2015, 2, 020103.	0.8	51
25	Automated detection of lung nodules in CT scans: Effect of image reconstruction algorithm. Medical Physics, 2003, 30, 461-472.	1.6	50
26	The Lung Image Database Consortium (LIDC). Academic Radiology, 2007, 14, 1455-1463.	1.3	50
27	North American Multicenter Volumetric CT Study for Clinical Staging of Malignant Pleural Mesothelioma: Feasibility and Logistics of Setting Up a Quantitative Imaging Study. Journal of Thoracic Oncology, 2016, 11, 1335-1344.	0.5	45
28	Variability in Mesothelioma Tumor Response Classification. American Journal of Roentgenology, 2006, 186, 1000-1006.	1.0	43
29	Imaging in pleural mesothelioma: A review of the 13th International Conference of the International Mesothelioma Interest Group. Lung Cancer, 2016, 101, 48-58.	0.9	38
30	Imaging in pleural mesothelioma: A review of the 11th International Conference of the International Mesothelioma Interest Group. Lung Cancer, 2013, 82, 190-196.	0.9	37
31	Incorporation of pre-therapy ¹⁸ F-FDG uptake data with CT texture features into a radiomics model for radiation pneumonitis diagnosis. Medical Physics, 2017, 44, 3686-3694.	1.6	37
32	Evaluation of Semiautomated Measurements of Mesothelioma Tumor Thickness on CT Scans1. Academic Radiology, 2005, 12, 1301-1309.	1.3	33
33	Evaluation of automated lung nodule detection on low-dose computed tomography scans from a lung cancer screening program1. Academic Radiology, 2005, 12, 337-346.	1.3	33
34	Observer Variability in Mesothelioma Tumor Thickness Measurements: Defining Minimally Measurable Lesions. Journal of Thoracic Oncology, 2014, 9, 1187-1194.	0.5	31
35	Role of the Quantitative Imaging Biomarker Alliance in Optimizing CT for the Evaluation of Lung Cancer Screenâ€“Detected Nodules. Journal of the American College of Radiology, 2015, 12, 390-395.	0.9	30
36	Computerâ€assisted staging of chronic rhinosinusitis correlates with symptoms. International Forum of Allergy and Rhinology, 2015, 5, 637-642.	1.5	28

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37	Automated lung segmentation in digital lateral chest radiographs. Medical Physics, 1998, 25, 1507-1520.	1.6	25
38	Medical Physics, 2012, 39, 4679-4690.	1.6	24
39	Quality assurance and training procedures for computerâ€aided detection and diagnosis systems in	1.6	22
40	Computer-Aided Nodule Detection System. Academic Radiology, 2015, 22, 475-480.	1.3	22
41	Characterization of mesothelioma and tissues present in contrastâ€enhanced thoracic CT scans. Medical Physics, 2011, 38, 942-947.	1.6	21
42	Automated detection of lung nodules in CT scans: False-positive reduction with the radial-gradient index. Medical Physics, 2006, 33, 1133-1140.	1.6	20
43	Temporal subtraction of dual-energy chest radiographs. Medical Physics, 2006, 33, 1911-1919.	1.6	20
44	Computerized detection of abnormal asymmetry in digital chest radiographs. Medical Physics, 1994, 21, 1761-1768.	1.6	19
45	Lung texture in serial thoracic CT scans: Registration-based methods to compare anatomically matched regions. Medical Physics, 2013, 40, 061906.	1.6	19
46	Imaging in pleural mesothelioma: A review of the 14th International Conference of the International Mesothelioma Interest Group. Lung Cancer, 2019, 130, 108-114.	0.9	19
47	Imaging in pleural mesothelioma: A review of the 12th International Conference of the International Mesothelioma Interest Group. Lung Cancer, 2015, 90, 148-154.	0.9	18
48	Medical Physics, 2006, 33, 3085-3093.	1.6	17
49	Variability of tumor area measurements for response assessment in malignant pleural mesothelioma. Medical Physics, 2013, 40, 081916.	1.6	17
50	Radiologicâ€“pathologic correlation of mesothelioma tumor volume. Lung Cancer, 2015, 87, 278-282.	0.9	16
51	Threeâ€dimensional image analysis for staging chronic rhinosinusitis. International Forum of Allergy and Rhinology, 2017, 7, 1052-1057.	1.5	16
52	Temporal subtraction in chest radiography: Automated assessment of registration accuracy. Medical Physics, 2006, 33, 1239-1249.	1.6	15
53	Radiologic Considerations and Standardization of Malignant Pleural Mesothelioma Imaging Within Clinical Trials: Consensus Statement from the NCI Thoracic Malignancy Steering Committee â€“ International Association for the Study of Lung Cancer â€“ Mesothelioma Applied Research Foundation Clinical Trials Planning Meeting. Journal of Thoracic Oncology, 2019, 14, 1718-1731.	0.5	15
54	Effects of variability in radiomics software packages on classifying patients with radiation pneumonitis. Journal of Medical Imaging, 2020, 7, 1.	0.8	15

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55	Ethics and professionalism in medical physics: A survey of AAPM members. Medical Physics, 2013, 40, 047001.	1.6	14
56	Effect of deformable registration on the dose calculated in radiation therapy planning CT scans of	1.6	14
57	Dynamic contrast-enhanced CT for the assessment of tumour response in malignant pleural mesothelioma: a pilot study. European Radiology, 2019, 29, 682-688.	2.3	14
58	Harmonization of radiomic feature variability resulting from differences in CT image acquisition and reconstruction: assessment in a cadaveric liver. Physics in Medicine and Biology, 2020, 65, 205008.	1.6	14
59	Deep convolutional neural networks for the automated segmentation of malignant pleural mesothelioma on computed tomography scans. Journal of Medical Imaging, 2018, 5, 1.	0.8	12
60	Accuracy of the Vancouver Lung Cancer Risk Prediction Model Compared With ThatÂof Radiologists. Chest, 2019, 156, 112-119.	0.4	11
61	Automated matching of temporally sequential CT sections. Medical Physics, 2004, 31, 3417-3424.	1.6	9
62	Deep Learning Demonstrates Potential for Lung Cancer Detection in Chest Radiography. Radiology, 2020, 297, 697-698.	3.6	9
63	Anniversary Paper: Image processing and manipulation through the pages of<i>Medical Physics</i>. Medical Physics, 2008, 35, 4488-4500.	1.6	8
64	Clinical significance of noncalcified lung nodules in patients with breast cancer. Breast Cancer Research and Treatment, 2016, 159, 265-271.	1.1	8
65	Quality assurance and quantitative imaging biomarkers in low-dose CT lung cancer screening. British Journal of Radiology, 2018, 91, 20170401.	1.0	8
66	Big Data Integration Case Study for Radiology Data Sources. , 2018, , .		8
67	Deep learning-based segmentation of malignant pleural mesothelioma tumor on computed tomography scans: application to scans demonstrating pleural effusion. Journal of Medical Imaging, 2020, 7, 1.	0.8	8
68	Comparison of Two Deformable Registration Algorithms in the Presence of Radiologic Change Between Serial Lung CT Scans. Journal of Digital Imaging, 2015, 28, 755-760.	1.6	7
69	Augmenting Medical Decision Making With Text-Based Search of Teaching File Repositories and Medical Ontologies. International Journal of Knowledge Discovery in Bioinformatics, 2018, 8, 18-43.	0.8	7
70	Radiomics-based assessment of idiopathic pulmonary fibrosis is associated with genetic mutations and patient survival. Journal of Medical Imaging, 2021, 8, 031903.	0.8	7
71	Image annotation for conveying automated lung nodule detection results to radiologists. Academic Radiology, 2003, 10, 1000-1007.	1.3	6
72	Research Imaging in an Academic Medical Center. Academic Radiology, 2012, 19, 762-771.	1.3	6

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73	Twoâ€dimensional extrapolation methods for texture analysis on CT scans. Medical Physics, 2007, 34, 3465-3472.	1.6	5
74	Semi-supervised learning approaches for predicting semantic characteristics of lung nodules. Intelligent Decision Technologies, 2009, 3, 207-217.	0.6	5
75	Automated lung segmentation in digital posteroanterior and lateral chest radiographs: Applications in diagnostic radiology and nuclear medicine. Medical Physics, 1997, 24, 2056-2056.	1.6	4
76	Computerized analysis of mesothelioma on CT scans. Lung Cancer, 2005, 49, S41-S44.	0.9	4
77	Discreteâ€space versus continuousâ€space lesion boundary and area definitions. Medical Physics, 2008, 35, 4070-4078.	1.6	4
78	A modified gradient correlation filter for image segmentation: Application to airway and bowel. Medical Physics, 2009, 36, 480-485.	1.6	4
79	Computerâ€assisted Curie scoring for metaiodobenzylguanidine (MIBG) scans in patients with neuroblastoma. Pediatric Blood and Cancer, 2018, 65, e27417.	0.8	4
80	The role of imaging in diagnosis and management of malignant peritoneal mesothelioma: a systematic review. Abdominal Radiology, 2022, 47, 1725-1740.	1.0	4
81	Computerized analysis of abnormal asymmetry in digital chest radiographs: Evaluation of potential utility. Journal of Digital Imaging, 1999, 12, 34-42.	1.6	3
82	The Radiologic Measurement of Mesothelioma. Hematology/Oncology Clinics of North America, 2005, 19, 1053-1066.	0.9	3
83	The influence of initial outlines on manual segmentation. Medical Physics, 2010, 37, 2153-2158.	1.6	3
84	Biomedical image analysis challenges should be considered as an academic exercise, not an instrument that will move the field forward in a real, practical way. Medical Physics, 2020, 47, 2325-2328.	1.6	3
85	Ontology-Based Radiology Teaching File Summarization, Coverage, and Integration. Journal of Digital Imaging, 2020, 33, 797-813.	1.6	3
86	Temporal subtraction in chest radiography: Mutual information as a measure of image quality. Medical Physics, 2009, 36, 5675-5682.	1.6	2
87	Pre-trained deep convolutional neural networks for the segmentation of malignant pleural mesothelioma tumor on CT scans. , 2019, , .		2
88	Correlation of patient survival with clinical tumor measurements in malignant pleural mesothelioma. European Radiology, 2019, 29, 2981-2988.	2.3	1
89	Critical Challenges to the Management of Clinical Trial Imaging: Recommendations for the Conduct of Imaging at Investigational Sites. Academic Radiology, 2020, 27, 300-306.	1.3	1
90	Imaging in pleural mesothelioma: A review of the 15th International Conference of the International Mesothelioma Interest Group. Lung Cancer, 2022, 164, 76-83.	0.9	1

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91	Validation of color-enhanced composite lung images. , 2004, , .		0
92	Letter to the Editor. Academic Radiology, 2017, 24, 916-917.	1.3	0
93	Response. Chest, 2019, 156, 810-811.	0.4	0
94	Anatomic Pointâ€"Based Lung Region with Zone Identification for Radiologist Annotation and Machine Learning for Chest Radiographs. Journal of Digital Imaging, 2021, 34, 922-931.	1.6	0
95	CT Texture Characterization. , 2020, , 319-329.		0