

Samuel G Armato Iii

List of Publications by Year in descending order

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Version: 2024-02-01

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	Imaging in pleural mesothelioma: A review of the 15th International Conference of the International Mesothelioma Interest Group. <i>Lung Cancer</i> , 2022, 164, 76-83.	0.9	1
2	The role of imaging in diagnosis and management of malignant peritoneal mesothelioma: a systematic review. <i>Abdominal Radiology</i> , 2022, 47, 1725-1740.	1.0	4
3	Radiomics-based assessment of idiopathic pulmonary fibrosis is associated with genetic mutations and patient survival. <i>Journal of Medical Imaging</i> , 2021, 8, 031903.	0.8	7
4	Anatomic Point-Based Lung Region with Zone Identification for Radiologist Annotation and Machine Learning for Chest Radiographs. <i>Journal of Digital Imaging</i> , 2021, 34, 922-931.	1.6	0
5	Critical Challenges to the Management of Clinical Trial Imaging: Recommendations for the Conduct of Imaging at Investigational Sites. <i>Academic Radiology</i> , 2020, 27, 300-306.	1.3	1
6	EURACAN/IASLC Proposals for Updating the Histologic Classification of Pleural Mesothelioma: Towards a More Multidisciplinary Approach. <i>Journal of Thoracic Oncology</i> , 2020, 15, 29-49.	0.5	106
7	Deep Learning Demonstrates Potential for Lung Cancer Detection in Chest Radiography. <i>Radiology</i> , 2020, 297, 697-698.	3.6	9
8	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. <i>Medical Physics</i> , 2020, 47, 2325-2328.	1.6	3
9	Ontology-Based Radiology Teaching File Summarization, Coverage, and Integration. <i>Journal of Digital Imaging</i> , 2020, 33, 797-813.	1.6	3
10	Harmonization of radiomic feature variability resulting from differences in CT image acquisition and reconstruction: assessment in a cadaveric liver. <i>Physics in Medicine and Biology</i> , 2020, 65, 205008.	1.6	14
11	Deep learning-based segmentation of malignant pleural mesothelioma tumor on computed tomography scans: application to scans demonstrating pleural effusion. <i>Journal of Medical Imaging</i> , 2020, 7, 1.	0.8	8
12	Effects of variability in radiomics software packages on classifying patients with radiation pneumonitis. <i>Journal of Medical Imaging</i> , 2020, 7, 1.	0.8	15
13	CT Texture Characterization. , 2020, , 319-329.		0
14	Dynamic contrast-enhanced CT for the assessment of tumour response in malignant pleural mesothelioma: a pilot study. <i>European Radiology</i> , 2019, 29, 682-688.	2.3	14
15	Response. <i>Chest</i> , 2019, 156, 810-811.	0.4	0
16	Radiologic Considerations and Standardization of Malignant Pleural Mesothelioma Imaging Within Clinical Trials: Consensus Statement from the NCI Thoracic Malignancy Steering Committee of the International Association for the Study of Lung Cancer Mesothelioma Applied Research Foundation Clinical Trials Planning Meeting. <i>Journal of Thoracic Oncology</i> , 2019, 14, 1718-1731.	0.5	15
17	Accuracy of the Vancouver Lung Cancer Risk Prediction Model Compared With That of Radiologists. <i>Chest</i> , 2019, 156, 112-119.	0.4	11
18	Imaging in pleural mesothelioma: A review of the 14th International Conference of the International Mesothelioma Interest Group. <i>Lung Cancer</i> , 2019, 130, 108-114.	0.9	19

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19	Correlation of patient survival with clinical tumor measurements in malignant pleural mesothelioma. <i>European Radiology</i> , 2019, 29, 2981-2988.	2.3	1
20	Pre-trained deep convolutional neural networks for the segmentation of malignant pleural mesothelioma tumor on CT scans. , 2019, , .		2
21	Quality assurance and quantitative imaging biomarkers in low-dose CT lung cancer screening. <i>British Journal of Radiology</i> , 2018, 91, 20170401.	1.0	8
22	Augmenting Medical Decision Making With Text-Based Search of Teaching File Repositories and Medical Ontologies. <i>International Journal of Knowledge Discovery in Bioinformatics</i> , 2018, 8, 18-43.	0.8	7
23	Treatment of Malignant Pleural Mesothelioma: American Society of Clinical Oncology Clinical Practice Guideline. <i>Journal of Clinical Oncology</i> , 2018, 36, 1343-1373.	0.8	324
24	Big Data Integration Case Study for Radiology Data Sources. , 2018, , .		8
25	Computer-assisted Curie scoring for metaiodobenzylguanidine (MIBG) scans in patients with neuroblastoma. <i>Pediatric Blood and Cancer</i> , 2018, 65, e27417.	0.8	4
26	Revised Modified Response Evaluation Criteria in Solid Tumors for Assessment of Response in Malignant Pleural Mesothelioma (Version 1.1). <i>Journal of Thoracic Oncology</i> , 2018, 13, 1012-1021.	0.5	85
27	Autosegmentation for thoracic radiation treatment planning: A grand challenge at AAPM 2017. <i>Medical Physics</i> , 2018, 45, 4568-4581.	1.6	169
28	Deep convolutional neural networks for the automated segmentation of malignant pleural mesothelioma on computed tomography scans. <i>Journal of Medical Imaging</i> , 2018, 5, 1.	0.8	12
29	PROSTATEx Challenges for computerized classification of prostate lesions from multiparametric magnetic resonance images. <i>Journal of Medical Imaging</i> , 2018, 5, 1.	0.8	98
30	Variation in algorithm implementation across radiomics software. <i>Journal of Medical Imaging</i> , 2018, 5, 1.	0.8	60
31	Incorporation of pre-therapy ¹⁸ F-FDG uptake data with CT texture features into a radiomics model for radiation pneumonitis diagnosis. <i>Medical Physics</i> , 2017, 44, 3686-3694.	1.6	37
32	Letter to the Editor. <i>Academic Radiology</i> , 2017, 24, 916-917.	1.3	0
33	Three-dimensional image analysis for staging chronic rhinosinusitis. <i>International Forum of Allergy and Rhinology</i> , 2017, 7, 1052-1057.	1.5	16
34	LUNGx Challenge for computerized lung nodule classification. <i>Journal of Medical Imaging</i> , 2016, 3, 044506.	0.8	80
35	North American Multicenter Volumetric CT Study for Clinical Staging of Malignant Pleural Mesothelioma: Feasibility and Logistics of Setting Up a Quantitative Imaging Study. <i>Journal of Thoracic Oncology</i> , 2016, 11, 1335-1344.	0.5	45
36	Clinical significance of noncalcified lung nodules in patients with breast cancer. <i>Breast Cancer Research and Treatment</i> , 2016, 159, 265-271.	1.1	8

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37	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
38	Computer-Assisted staging of chronic rhinosinusitis correlates with symptoms. International Forum of Allergy and Rhinology, 2015, 5, 637-642.	1.5	28
39	Computer-Aided Nodule Detection System. Academic Radiology, 2015, 22, 475-480.	1.3	22
40	Guest Editorial: LUNGx Challenge for computerized lung nodule classification: reflections and lessons learned. Journal of Medical Imaging, 2015, 2, 020103.	0.8	51
41	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
42	Radiologic-pathologic correlation of mesothelioma tumor volume. Lung Cancer, 2015, 87, 278-282.	0.9	16
43	Role of the Quantitative Imaging Biomarker Alliance in Optimizing CT for the Evaluation of Lung Cancer Screen-Detected Nodules. Journal of the American College of Radiology, 2015, 12, 390-395.	0.9	30
44	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
45	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
46	Effect of deformable registration on the dose calculated in radiation therapy planning CT scans of	1.6	14
47	Observer Variability in Mesothelioma Tumor Thickness Measurements: Defining Minimally Measurable Lesions. Journal of Thoracic Oncology, 2014, 9, 1187-1194.	0.5	31
48	CT-Based Pulmonary Artery Measurements for the Assessment of Pulmonary Hypertension. Academic Radiology, 2014, 21, 523-530.	1.3	64
49	087001.	1.6	102
50	Lung texture in serial thoracic CT scans: Registration-based methods to compare anatomically matched regions. Medical Physics, 2013, 40, 061906.	1.6	19
51	Quality assurance and training procedures for computer-aided detection and diagnosis systems in	1.6	22
52	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
53	Variability of tumor area measurements for response assessment in malignant pleural mesothelioma. Medical Physics, 2013, 40, 081916.	1.6	17
54	Ethics and professionalism in medical physics: A survey of AAPM members. Medical Physics, 2013, 40, 047001.	1.6	14

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55	Medical Physics, 2012, 39, 4679-4690.	1.6	24
56	Research Imaging in an Academic Medical Center. Academic Radiology, 2012, 19, 762-771.	1.3	6
57	Computerized segmentation and measurement of malignant pleural mesothelioma. Medical Physics, 2011, 38, 238-244.	1.6	51
58	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
59	Characterization of mesothelioma and tissues present in contrast-enhanced thoracic CT scans. Medical Physics, 2011, 38, 942-947.	1.6	21
60	The influence of initial outlines on manual segmentation. Medical Physics, 2010, 37, 2153-2158.	1.6	3
61	Semi-supervised learning approaches for predicting semantic characteristics of lung nodules. Intelligent Decision Technologies, 2009, 3, 207-217.	0.6	5
62	Temporal subtraction in chest radiography: Mutual information as a measure of image quality. Medical Physics, 2009, 36, 5675-5682.	1.6	2
63	A modified gradient correlation filter for image segmentation: Application to airway and bowel. Medical Physics, 2009, 36, 480-485.	1.6	4
64	Predicting Radiological Panel Opinions Using a Panel of Machine Learning Classifiers. Algorithms, 2009, 2, 1473-1502.	1.2	53
65	Assessment of Radiologist Performance in the Detection of Lung Nodules. Academic Radiology, 2009, 16, 28-38.	1.3	67
66	Anniversary Paper: Image processing and manipulation through the pages of Medical Physics. Medical Physics, 2008, 35, 4488-4500.	1.6	8
67	Discrete space versus continuous space lesion boundary and area definitions. Medical Physics, 2008, 35, 4070-4078.	1.6	4
68	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
69	Two-dimensional extrapolation methods for texture analysis on CT scans. Medical Physics, 2007, 34, 3465-3472.	1.6	5
70	The Lung Image Database Consortium (LIDC). Academic Radiology, 2007, 14, 1455-1463.	1.3	50
71	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
72	Medical Physics, 2006, 33, 3085-3093.	1.6	17

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73	Modeling of mesothelioma growth demonstrates weaknesses of current response criteria. Lung Cancer, 2006, 52, 141-148.	0.9	55
74	Variability in Mesothelioma Tumor Response Classification. American Journal of Roentgenology, 2006, 186, 1000-1006.	1.0	43
75	Temporal subtraction in chest radiography: Automated assessment of registration accuracy. Medical Physics, 2006, 33, 1239-1249.	1.6	15
76	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
77	Temporal subtraction of dual-energy chest radiographs. Medical Physics, 2006, 33, 1911-1919.	1.6	20
78	The Radiologic Measurement of Mesothelioma. Hematology/Oncology Clinics of North America, 2005, 19, 1053-1066.	0.9	3
79	Evaluation of Semiautomated Measurements of Mesothelioma Tumor Thickness on CT Scans ¹ . Academic Radiology, 2005, 12, 1301-1309.	1.3	33
80	Evaluation of automated lung nodule detection on low-dose computed tomography scans from a lung cancer screening program ¹ . Academic Radiology, 2005, 12, 337-346.	1.3	33
81	Computerized analysis of mesothelioma on CT scans. Lung Cancer, 2005, 49, S41-S44.	0.9	4
82	Automated matching of temporally sequential CT sections. Medical Physics, 2004, 31, 3417-3424.	1.6	9
83	Measurement of mesothelioma on thoracic CT scans: A comparison of manual and computer-assisted techniques. Medical Physics, 2004, 31, 1105-1115.	1.6	72
84	Validation of color-enhanced composite lung images. , 2004, , .		0
85	Automated lung segmentation for thoracic CT. Academic Radiology, 2004, 11, 1011-1021.	1.3	254
86	Automated lung nodule classification following automated nodule detection on CT: A serial approach. Medical Physics, 2003, 30, 1188-1197.	1.6	75
87	Image annotation for conveying automated lung nodule detection results to radiologists. Academic Radiology, 2003, 10, 1000-1007.	1.3	6
88	Automated detection of lung nodules in CT scans: Effect of image reconstruction algorithm. Medical Physics, 2003, 30, 461-472.	1.6	50
89	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
90	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

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91	Automated detection of lung nodules in CT scans: Preliminary results. Medical Physics, 2001, 28, 1552-1561.	1.6	217
92	Computerized analysis of abnormal asymmetry in digital chest radiographs: Evaluation of potential utility. Journal of Digital Imaging, 1999, 12, 34-42.	1.6	3
93	Automated lung segmentation in digital lateral chest radiographs. Medical Physics, 1998, 25, 1507-1520.	1.6	25
94	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
95	Computerized detection of abnormal asymmetry in digital chest radiographs. Medical Physics, 1994, 21, 1761-1768.	1.6	19