

Edward Castillo

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

49 papers	1,754 citations	19 h-index	41 g-index
50 ext. papers	2,098 ext. citations	3.3 avg, IF	4.52 L-index

#	Paper	IF	Citations
49	A framework for evaluation of deformable image registration spatial accuracy using large landmark point sets. <i>Physics in Medicine and Biology</i> , 2009 , 54, 1849-70	3.8	402
48	Dynamic ventilation imaging from four-dimensional computed tomography. <i>Physics in Medicine and Biology</i> , 2006 , 51, 777-91	3.8	176
47	Four-dimensional deformable image registration using trajectory modeling. <i>Physics in Medicine and Biology</i> , 2010 , 55, 305-27	3.8	170
46	Ventilation from four-dimensional computed tomography: density versus Jacobian methods. <i>Physics in Medicine and Biology</i> , 2010 , 55, 4661-85	3.8	132
45	Quantification of regional ventilation from treatment planning CT. <i>International Journal of Radiation Oncology Biology Physics</i> , 2005 , 62, 630-4	4	115
44	Use of 4-dimensional computed tomography-based ventilation imaging to correlate lung dose and function with clinical outcomes. <i>International Journal of Radiation Oncology Biology Physics</i> , 2013 , 86, 366-71	4	82
43	A reference dataset for deformable image registration spatial accuracy evaluation using the COPDgene study archive. <i>Physics in Medicine and Biology</i> , 2013 , 58, 2861-77	3.8	75
42	Hyperpolarized (3)He magnetic resonance imaging: comparison with four-dimensional x-ray computed tomography imaging in lung cancer. <i>Academic Radiology</i> , 2012 , 19, 1546-53	4.3	60
41	Use of weekly 4DCT-based ventilation maps to quantify changes in lung function for patients undergoing radiation therapy. <i>Medical Physics</i> , 2012 , 39, 289-98	4.4	55
40	Spatial correspondence of 4D CT ventilation and SPECT pulmonary perfusion defects in patients with malignant airway stenosis. <i>Physics in Medicine and Biology</i> , 2012 , 57, 1855-71	3.8	48
39	Clinical validation of 4-dimensional computed tomography ventilation with pulmonary function test data. <i>International Journal of Radiation Oncology Biology Physics</i> , 2015 , 92, 423-9	4	42
38	Comparison of 4-dimensional computed tomography ventilation with nuclear medicine ventilation-perfusion imaging: a clinical validation study. <i>International Journal of Radiation Oncology Biology Physics</i> , 2014 , 89, 199-205	4	38
37	Association of anticoagulation dose and survival in hospitalized COVID-19 patients: A retrospective propensity score-weighted analysis. <i>European Journal of Haematology</i> , 2021 , 106, 165-174	3.8	37
36	Least median of squares filtering of locally optimal point matches for compressible flow image registration. <i>Physics in Medicine and Biology</i> , 2012 , 57, 4827-33	3.8	34
35	Evaluating the Toxicity Reduction With Computed Tomographic Ventilation Functional Avoidance Radiation Therapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2017 , 99, 325-333	4	30
34	Regional Lung Function Profiles of Stage I and III Lung Cancer Patients: An Evaluation for Functional Avoidance Radiation Therapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2016 , 95, 1273-80	4	30
33	Evaluating Which Dose-Function Metrics Are Most Critical for Functional-Guided Radiation Therapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2017 , 99, 202-209	4	26

32	The numerical stability of transformation-based CT ventilation. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2017 , 12, 569-580	3.9	21
31	Interim Analysis of a Two-Institution, Prospective Clinical Trial of 4DCT-Ventilation-based Functional Avoidance Radiation Therapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2018 , 102, 1357-1365	4	21
30	Evaluation of 4D CT acquisition methods designed to reduce artifacts. <i>Journal of Applied Clinical Medical Physics</i> , 2015 , 16, 4949	2.3	18
29	A complete 4DCT-ventilation functional avoidance virtual trial: Developing strategies for prospective clinical trials. <i>Journal of Applied Clinical Medical Physics</i> , 2017 , 18, 144-152	2.3	17
28	Functional-guided radiotherapy using knowledge-based planning. <i>Radiotherapy and Oncology</i> , 2018 , 129, 494-498	5.3	13
27	Computing global minimizers to a constrained B-spline image registration problem from optimal l1 perturbations to block match data. <i>Medical Physics</i> , 2014 , 41, 041904	4.4	13
26	Robust CT ventilation from the integral formulation of the Jacobian. <i>Medical Physics</i> , 2019 , 46, 2115-2125	4.4	12
25	Assessing the use of 4DCT-ventilation in pre-operative surgical lung cancer evaluation. <i>Medical Physics</i> , 2017 , 44, 200-208	4.4	10
24	Quadratic penalty method for intensity-based deformable image registration and 4DCT lung motion recovery. <i>Medical Physics</i> , 2019 , 46, 2194-2203	4.4	10
23	Technical Note: Deriving ventilation imaging from 4DCT by deep convolutional neural network. <i>Medical Physics</i> , 2019 , 46, 2323-2329	4.4	10
22	Deep convolutional neural networks for automatic segmentation of thoracic organs-at-risk in radiation oncology - use of non-domain transfer learning. <i>Journal of Applied Clinical Medical Physics</i> , 2020 , 21, 108-113	2.3	7
21	Therapeutic Anticoagulation Delays Death in COVID-19 Patients: Cross-Sectional Analysis of a Prospective Cohort. <i>TH Open</i> , 2020 , 4, e263-e270	2.7	7
20	Pulmonary blood mass dynamics on 4DCT during tidal breathing. <i>Physics in Medicine and Biology</i> , 2019 , 64, 045014	3.8	6
19	Evaluating Positron Emission Tomography-Based Functional Imaging Changes in the Heart After Chemo-Radiation for Patients With Lung Cancer. <i>International Journal of Radiation Oncology Biology Physics</i> , 2020 , 106, 1063-1070	4	6
18	Robust HU-based CT ventilation from an integrated mass conservation formulation. <i>Medical Physics</i> , 2019 , 46, 5036-5046	4.4	5
17	An improved fuzzy c-means algorithm for brain MRI image segmentation 2016 ,		5
16	Characterizing Spatial Lung Function for Esophageal Cancer Patients Undergoing Radiation Therapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2019 , 103, 738-746	4	4
15	Severity of radiation pneumonitis, from clinical, dosimetric and biological features: a pilot study. <i>Radiation Oncology</i> , 2020 , 15, 246	4.2	3

14	Technical Note: On the spatial correlation between robust CT-ventilation methods and SPECT ventilation. <i>Medical Physics</i> , 2020 , 47, 5731-5738	4.4	3
13	Using 4DCT-ventilation to characterize lung function changes for pediatric patients getting thoracic radiotherapy. <i>Journal of Applied Clinical Medical Physics</i> , 2018 , 19, 407-412	2.3	3
12	Longitudinal Lung Compliance Imaging in Idiopathic Pulmonary Fibrosis. <i>Radiology</i> , 2019 , 293, 272	20.5	2
11	GPU-accelerated Block Matching Algorithm for Deformable Registration of Lung CT Images 2015 , 2015, 292-295		2
10	Automated identification and reduction of artifacts in cine four-dimensional computed tomography (4DCT) images using respiratory motion model. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2017 , 12, 1521-1532	3.9	1
9	Pulmonary Blood Mass and Quantitative Lung Function Imaging in Idiopathic Pulmonary Fibrosis. <i>Radiology: Cardiothoracic Imaging</i> , 2020 , 2, e200003	8.3	1
8	Quantifying pulmonary perfusion from noncontrast computed tomography. <i>Medical Physics</i> , 2021 , 48, 1804-1814	4.4	1
7	Dynamic lung compliance imaging from 4DCT-derived volume change estimation. <i>Physics in Medicine and Biology</i> , 2021 , 66,	3.8	1
6	Functional avoidance-based intensity modulated proton therapy with 4DCT derived ventilation imaging for lung cancer. <i>Journal of Applied Clinical Medical Physics</i> , 2021 , 22, 276-285	2.3	0
5	Characterizing spatial differences between SPECT-ventilation and SPECT-perfusion in patients with lung cancer undergoing radiotherapy. <i>Radiotherapy and Oncology</i> , 2021 , 160, 120-124	5.3	0
4	An assessment of the correlation between robust CT-derived ventilation and pulmonary function test in a cohort with no respiratory symptoms. <i>British Journal of Radiology</i> , 2021 , 94, 20201218	3.4	0
3	Cardiac metabolic changes on F-positron emission tomography after thoracic radiotherapy predict for overall survival in esophageal cancer patients.. <i>Journal of Applied Clinical Medical Physics</i> , 2022 , e135523	2.3	0
2	Differential Ventilation Pattern on Novel Functional Imaging in a Patient with Unilateral Bronchial Obstruction Caused by Adenoid Cystic Carcinoma. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2020 , 201, e6-e7	10.2	
1	A prospective study to validate pulmonary blood mass changes on non-contrast 4DCT in pulmonary embolism patients. <i>Clinical Imaging</i> , 2021 , 78, 179-183	2.7	