

Richard Castillo

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/737506/richard-castillo-publications-by-year.pdf>

Version: 2024-04-25

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

58
papers

2,226
citations

24
h-index

47
g-index

66
ext. papers

2,625
ext. citations

3.2
avg, IF

4.61
L-index

#	Paper	IF	Citations
58	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 , e13552	2.3	0
57	Quantifying pulmonary perfusion from noncontrast computed tomography. <i>Medical Physics</i> , 2021 , 48, 1804-1814	4.4	1
56	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
55	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
54	Implementation of a Knowledge-Based Treatment Planning Model for Cardiac-Sparing Lung Radiation Therapy. <i>Advances in Radiation Oncology</i> , 2021 , 6, 100745	3.3	0
53	Severity of radiation pneumonitis, from clinical, dosimetric and biological features: a pilot study. <i>Radiation Oncology</i> , 2020 , 15, 246	4.2	3
52	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
51	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
50	A learning-based automatic segmentation and quantification method on left ventricle in gated myocardial perfusion SPECT imaging: A feasibility study. <i>Journal of Nuclear Cardiology</i> , 2020 , 27, 976-987 ^{2.1}	7.1	46
49	Robust HU-based CT ventilation from an integrated mass conservation formulation. <i>Medical Physics</i> , 2019 , 46, 5036-5046	4.4	5
48	Robust CT ventilation from the integral formulation of the Jacobian. <i>Medical Physics</i> , 2019 , 46, 2115-2125 ^{4.4}	4.4	12
47	Technical Note: Deriving ventilation imaging from 4DCT by deep convolutional neural network. <i>Medical Physics</i> , 2019 , 46, 2323-2329	4.4	10
46	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
45	Predictors of pneumonitis-free survival following lung stereotactic body radiation therapy. <i>Translational Lung Cancer Research</i> , 2019 , 8, 15-23	4.4	3
44	Functional-guided radiotherapy using knowledge-based planning. <i>Radiotherapy and Oncology</i> , 2018 , 129, 494-498	5.3	13
43	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
42	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

41	Assessing the use of 4DCT-ventilation in pre-operative surgical lung cancer evaluation. <i>Medical Physics</i> , 2017 , 44, 200-208	4.4	10
40	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
39	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
38	Incorporation of pre-therapy F-FDG uptake data with CT texture features into a radiomics model for radiation pneumonitis diagnosis. <i>Medical Physics</i> , 2017 , 44, 3686-3694	4.4	28
37	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
36	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
35	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
34	Gemcitabine-induced radiation recall myositis in a patient with relapsed nasopharyngeal carcinoma. <i>Practical Radiation Oncology</i> , 2017 , 7, e19-e22	2.8	9
33	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
32	Lung texture in serial thoracic computed tomography scans: correlation of radiomics-based features with radiation therapy dose and radiation pneumonitis development. <i>International Journal of Radiation Oncology Biology Physics</i> , 2015 , 91, 1048-56	4	139
31	Quality assurance assessment of diagnostic and radiation therapy-simulation CT image registration for head and neck radiation therapy: anatomic region of interest-based comparison of rigid and deformable algorithms. <i>Radiology</i> , 2015 , 274, 752-63	20.5	42
30	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
29	Morphometry-based measurements of the structural response to whole-brain radiation. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2015 , 10, 393-401	3.9	10
28	GPU-accelerated Block Matching Algorithm for Deformable Registration of Lung CT Images 2015 , 2015, 292-295		2
27	Evaluation of 4D CT acquisition methods designed to reduce artifacts. <i>Journal of Applied Clinical Medical Physics</i> , 2015 , 16, 4949	2.3	18
26	Pre-Radiation Therapy Fluorine 18 Fluorodeoxyglucose PET Helps Identify Patients with Esophageal Cancer at High Risk for Radiation Pneumonitis. <i>Radiology</i> , 2015 , 275, 822-31	20.5	18
25	Deformable image registration for temporal subtraction of chest radiographs. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2014 , 9, 513-22	3.9	4
24	Evaluation of image registration spatial accuracy using a Bayesian hierarchical model. <i>Biometrics</i> , 2014 , 70, 366-77	1.8	1

23	Pre-radiotherapy FDG PET predicts radiation pneumonitis in lung cancer. <i>Radiation Oncology</i> , 2014 , 9, 74	4.2	33
22	Assessment of a quantitative metric for 4D CT artifact evaluation by observer consensus. <i>Journal of Applied Clinical Medical Physics</i> , 2014 , 15, 4718	2.3	7
21	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
20	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
19	. <i>Journal of Medical and Biological Engineering</i> , 2014 , 34, 178	2.2	9
18	SU-C-18A-02: Image-Based Camera Tracking: Towards Registration of Endoscopic Video to CT. <i>Medical Physics</i> , 2014 , 41, 101-101	4.4	0
17	Modeling lung deformation: a combined deformable image registration method with spatially varying Young's modulus estimates. <i>Medical Physics</i> , 2013 , 40, 081902	4.4	36
16	Proton therapy radiation pneumonitis local dose-response in esophagus cancer patients. <i>Radiotherapy and Oncology</i> , 2013 , 106, 124-9	5.3	18
15	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
14	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
13	[18F]-FDG uptake dose-response correlates with radiation pneumonitis in lung cancer patients. <i>Radiotherapy and Oncology</i> , 2012 , 104, 52-7	5.3	43
12	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
11	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
10	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
9	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
8	WE-C-BRA-06: In Vivo Detection of Proton End Range Effect in Human Lungs: Intra-Subject Dose Response Comparison. <i>Medical Physics</i> , 2012 , 39, 3947-3948	4.4	
7	Implementation and evaluation of various demons deformable image registration algorithms on a GPU. <i>Physics in Medicine and Biology</i> , 2010 , 55, 207-19	3.8	182
6	Ventilation from four-dimensional computed tomography: density versus Jacobian methods. <i>Physics in Medicine and Biology</i> , 2010 , 55, 4661-85	3.8	132

5	Four-dimensional deformable image registration using trajectory modeling. <i>Physics in Medicine and Biology</i> , 2010 , 55, 305-27	3.8	170
4	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
3	Reduction of pulmonary compliance found with high-resolution computed tomography in irradiated mice. <i>International Journal of Radiation Oncology Biology Physics</i> , 2007 , 67, 879-87	4	18
2	Novel method to calculate pulmonary compliance images in rodents from computed tomography acquired at constant pressures. <i>Physics in Medicine and Biology</i> , 2006 , 51, 1101-12	3.8	31
1	Attenuation correction of PET images with respiration-averaged CT images in PET/CT. <i>Journal of Nuclear Medicine</i> , 2005 , 46, 1481-7	8.9	160