

Joel Castelli

List of Publications by Year in descending order

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Version: 2024-02-01

85
papers

1,816
citations

279701

23
h-index

302012

39
g-index

114
all docs

114
docs citations

114
times ranked

2432
citing authors

#	ARTICLE	IF	CITATIONS
1	Impact of head and neck cancer adaptive radiotherapy to spare the parotid glands and decrease the risk of xerostomia. <i>Radiation Oncology</i> , 2015, 10, 6.	1.2	117
2	Head and neck tumor segmentation in PET/CT: The HECKTOR challenge. <i>Medical Image Analysis</i> , 2022, 77, 102336.	7.0	114
3	Performance comparison of modified ComBat for harmonization of radiomic features for multicenter studies. <i>Scientific Reports</i> , 2020, 10, 10248.	1.6	109
4	The synergistic effect of radiotherapy and immunotherapy: A promising but not simple partnership. <i>Critical Reviews in Oncology/Hematology</i> , 2017, 111, 124-132.	2.0	93
5	Adaptive radiotherapy for head and neck cancer. <i>Acta Oncológica</i> , 2018, 57, 1284-1292.	0.8	81
6	Deformable image registration for radiation therapy: principle, methods, applications and evaluation. <i>Acta Oncológica</i> , 2019, 58, 1225-1237.	0.8	74
7	BioCAST/IFCT-1002: epidemiological and molecular features of lung cancer in never-smokers. <i>European Respiratory Journal</i> , 2015, 45, 1403-1414.	3.1	66
8	Comparison of Deep Learning-Based and Patch-Based Methods for Pseudo-CT Generation in MRI-Based Prostate Dose Planning. <i>International Journal of Radiation Oncology Biology Physics</i> , 2019, 105, 1137-1150.	0.4	58
9	Evaluation of Deformable Image Registration Methods for Dose Monitoring in Head and Neck Radiotherapy. <i>BioMed Research International</i> , 2015, 2015, 1-16.	0.9	53
10	Overview of the predictive value of quantitative 18 FDG PET in head and neck cancer treated with chemoradiotherapy. <i>Critical Reviews in Oncology/Hematology</i> , 2016, 108, 40-51.	2.0	52
11	Overview of the HECKTOR Challenge at MICCAI 2020: Automatic Head and Neck Tumor Segmentation in PET/CT. <i>Lecture Notes in Computer Science</i> , 2021, , 1-21.	1.0	49
12	Optimal adaptive IMRT strategy to spare the parotid glands in oropharyngeal cancer. <i>Radiotherapy and Oncology</i> , 2016, 120, 41-47.	0.3	46
13	Comparison of CBCT-based dose calculation methods in head and neck cancer radiotherapy: from Hounsfield unit to density calibration curve to deep learning. <i>Medical Physics</i> , 2020, 47, 4683-4693.	1.6	43
14	Second conservative treatment for ipsilateral breast cancer recurrence using high-dose rate interstitial brachytherapy: Preliminary clinical results and evaluation of patient satisfaction. <i>Brachytherapy</i> , 2011, 10, 171-177.	0.2	42
15	CYBERKNIFE STEREOTACTIC RADIOTHERAPY FOR SPINAL TUMORS. <i>Neurosurgery</i> , 2009, 64, A60-A66.	0.6	39
16	Pre- and per-treatment 18F-FDG PET/CT parameters to predict recurrence and survival in cervical cancer. <i>Radiotherapy and Oncology</i> , 2016, 120, 512-518.	0.3	38
17	Prognostic and therapeutic factors of gliosarcoma from a multi-institutional series. <i>Journal of Neuro-Oncology</i> , 2016, 129, 85-92.	1.4	37
18	Voxel-Based Analysis for Identification of Urethrovessical Subregions Predicting Urinary Toxicity After Prostate Cancer Radiation Therapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2019, 104, 343-354.	0.4	37

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19	Salivary gland-sparing other than parotid-sparing in definitive head-and-neck intensity-modulated radiotherapy does not seem to jeopardize local control. <i>Radiation Oncology</i> , 2013, 8, 132.	1.2	34
20	Evaluation of the Prognostic Value of FDG PET/CT Parameters for Patients With Surgically Treated Head and Neck Cancer. <i>JAMA Otolaryngology - Head and Neck Surgery</i> , 2020, 146, 471.	1.2	33
21	Statistical Shape Model to Generate a Planning Library for Cervical Adaptive Radiotherapy. <i>IEEE Transactions on Medical Imaging</i> , 2019, 38, 406-416.	5.4	31
22	Nomogram to predict rectal toxicity following prostate cancer radiotherapy. <i>PLoS ONE</i> , 2017, 12, e0179845.	1.1	28
23	No impact of passive smoke on the somatic profile of lung cancers in never-smokers. <i>European Respiratory Journal</i> , 2015, 45, 1415-1425.	3.1	27
24	A Nomogram to predict parotid gland overdose in head and neck IMRT. <i>Radiation Oncology</i> , 2016, 11, 79.	1.2	23
25	CBCT-guided evolutive library for cervical adaptive IMRT. <i>Medical Physics</i> , 2018, 45, 1379-1390.	1.6	23
26	Salvage reirradiation for local prostate cancer recurrence after radiation therapy. For who? When? How?. <i>Cancer Radiotherapie: Journal De La Societe Francaise De Radiotherapie Oncologique</i> , 2019, 23, 541-558.	0.6	23
27	A PET-based nomogram for oropharyngeal cancers. <i>European Journal of Cancer</i> , 2017, 75, 222-230.	1.3	21
28	(18 F)-FDG PET/CT parameters to predict survival and recurrence in patients with locally advanced cervical cancer treated with chemoradiotherapy. <i>Cancer Radiotherapie: Journal De La Societe Francaise De Radiotherapie Oncologique</i> , 2018, 22, 229-235.	0.6	21
29	Voxel-based identification of local recurrence sub-regions from pre-treatment PET/CT for locally advanced head and neck cancers. <i>EJNMMI Research</i> , 2019, 9, 90.	1.1	21
30	PET-based prognostic survival model after radiotherapy for head and neck cancer. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2019, 46, 638-649.	3.3	20
31	Statistical harmonization can improve the development of a multicenter CT-based radiomic model predictive of nonresponse to induction chemotherapy in laryngeal cancers. <i>Medical Physics</i> , 2021, 48, 4099-4109.	1.6	15
32	The benefit of using bladder sub-volume equivalent uniform dose constraints in prostate intensity-modulated radiotherapy planning. <i>OncoTargets and Therapy</i> , 2016, Volume 9, 7537-7544.	1.0	14
33	The importance of feature aggregation in radiomics: a head and neck cancer study. <i>Scientific Reports</i> , 2020, 10, 19679.	1.6	14
34	Concurrent cisplatin and dose escalation with intensity-modulated radiotherapy (IMRT) versus conventional radiotherapy for locally advanced head and neck squamous cell carcinomas (HNSCC): GORTEC 2004-01 randomized phase III trial. <i>Radiotherapy and Oncology</i> , 2020, 150, 18-25.	0.3	14
35	Intensity-modulated radiotherapy for prostate cancer with seminal vesicle involvement (T3b): A multicentric retrospective analysis. <i>PLoS ONE</i> , 2019, 14, e0210514.	1.1	13
36	ITV versus mid-ventilation for treatment planning in lung SBRT: a comparison of target coverage and PTV adequacy by using in-treatment 4D cone beam CT. <i>Radiation Oncology</i> , 2020, 15, 54.	1.2	13

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37	Metabolic Tumor Volume and Total Lesion Glycolysis in Oropharyngeal Cancer Treated With Definitive Radiotherapy. <i>Clinical Nuclear Medicine</i> , 2017, 42, e281-e285.	0.7	12
38	Adaptive radiotherapy in head and neck cancer is required to avoid tumor underdose. <i>Acta Oncologica</i> , 2018, 57, 1267-1270.	0.8	12
39	Optimized radiotherapy to improve clinical outcomes for locally advanced lung cancer. <i>Radiation Oncology</i> , 2018, 13, 147.	1.2	12
40	Unilateral or bilateral irradiation in cervical lymph node metastases of unknown primary? A retrospective cohort study. <i>European Journal of Cancer</i> , 2019, 111, 69-81.	1.3	11
41	Head-and-Neck MRI-only radiotherapy treatment planning: From acquisition in treatment position to pseudo-CT generation. <i>Cancer Radiotherapie: Journal De La Societe Francaise De Radiotherapie Oncologique</i> , 2020, 24, 288-297.	0.6	11
42	Roles of Deformable Image Registration in adaptive RT: From Contour propagation to dose monitoring. , 2015, 2015, 5215-8.		10
43	Cardiac radioablation for ventricular tachycardia: Which approach for incorporating cardiorespiratory motions into the planning target volume?. <i>Physica Medica</i> , 2022, 95, 16-24.	0.4	10
44	Simultaneously modulated accelerated radiation therapy reduces severe oesophageal toxicity in concomitant chemoradiotherapy of locally advanced non-small-cell lung cancer. <i>British Journal of Radiology</i> , 2015, 88, 20150311.	1.0	7
45	PET and MRI guided adaptive radiotherapy: Rational, feasibility and benefit. <i>Cancer Radiotherapie: Journal De La Societe Francaise De Radiotherapie Oncologique</i> , 2020, 24, 635-644.	0.6	7
46	Recommendations for postoperative radiotherapy in head & neck squamous cell carcinoma in the presence of flaps: A GORTEC internationally-reviewed HNCIG-endorsed consensus. <i>Radiotherapy and Oncology</i> , 2021, 160, 140-147.	0.3	7
47	The role of imaging in adaptive radiotherapy for head and neck cancer. <i>Irbm</i> , 2014, 35, 33-40.	3.7	6
48	CyberKnife® M6: Peripheral dose evaluation for brain treatments. <i>Physica Medica</i> , 2017, 37, 88-96.	0.4	6
49	QuantImage: An Online Tool for High-Throughput 3D Radiomics Feature Extraction in PET-CT. , 2017, , 349-377.		6
50	Adensity assignment method for dose monitoring in head-and-neck radiotherapy. <i>Strahlentherapie Und Onkologie</i> , 2019, 195, 175-185.	1.0	5
51	Discontinuous stereotactic body radiotherapy schedule increases overall survival in early-stage non-small cell lung cancer. <i>Lung Cancer</i> , 2021, 157, 100-108.	0.9	5
52	Fully Automatic Head and Neck Cancer Prognosis Prediction in PET/CT. <i>Lecture Notes in Computer Science</i> , 2021, , 59-68.	1.0	5
53	FDG PET in Diffuse Spinal Carcinomatous Meningitis. <i>Clinical Nuclear Medicine</i> , 2019, 44, e418-e419.	0.7	4
54	A priori quality assurance using a benchmark case of the randomized phase 2 GORTEC 2014-14 in oligometastatic head and neck cancer patients. <i>Cancer Radiotherapie: Journal De La Societe Francaise De Radiotherapie Oncologique</i> , 2021, 25, 755-762.	0.6	4

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55	Cleaning radiotherapy contours for radiomics studies, is it worth it? A head and neck cancer study. <i>Clinical and Translational Radiation Oncology</i> , 2022, 33, 153-158.	0.9	4
56	Investigating the contribution of pre- and per-treatment 18F-FDG PET-CT segmentation methodologies for post-treatment tumor recurrence prediction in cervical cancer. <i>Irbm</i> , 2013, 34, 274-277.	3.7	3
57	Is Dose Deformation "Invariance Hypothesis Verified in Prostate IGRT?. <i>International Journal of Radiation Oncology Biology Physics</i> , 2017, 97, 830-838.	0.4	3
58	PO-1551: Deep CNN on PET/CT images for NSCLC automated tumor detection and outcome prediction. <i>Radiotherapy and Oncology</i> , 2020, 152, S839-S840.	0.3	3
59	Adaptative radiotherapy in head and neck cancers. <i>Physica Medica</i> , 2013, 29, e1.	0.4	2
60	PO-0935: Evaluation of deformable image registration methods for dose monitoring in head and neck adaptive radiotherapy. <i>Radiotherapy and Oncology</i> , 2015, 115, S488-S489.	0.3	2
61	OC-0352: CBCT-guided evolutive library for cervix adaptive IMRT. <i>Radiotherapy and Oncology</i> , 2017, 123, S186-S187.	0.3	2
62	Implementation of an optimization method for parotid gland sparing during inverse planning for head and neck cancer radiotherapy. <i>Cancer Radiotherapie: Journal De La Societe Francaise De Radiotherapie Oncologique</i> , 2020, 24, 28-37.	0.6	2
63	Impact of Neck Dissection in Head and Neck Squamous Cell Carcinomas of Unknown Primary. <i>Cancers</i> , 2021, 13, 2416.	1.7	1
64	Impact of Weekly Replanning to Spare the Parotid Glands in Head and Neck Cancer Radiation Therapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2014, 90, S871.	0.4	0
65	1589 Workshops for caregivers of patients treated for brain tumors. <i>European Journal of Cancer</i> , 2015, 51, S234.	1.3	0
66	EP-1642: Comparison between a conventional IMRT planning method and a new automated planning method.. <i>Radiotherapy and Oncology</i> , 2016, 119, S767.	0.3	0
67	PO-0911: Optimal adaptive radiotherapy strategy in head and neck to spare the parotid glands. <i>Radiotherapy and Oncology</i> , 2016, 119, S439-S440.	0.3	0
68	EP-1797: Pelvic lymph node PTV margins in prostate IMRT. <i>Radiotherapy and Oncology</i> , 2016, 119, S842.	0.3	0
69	PO-0661: Gliosarcoma: prognostic and therapeutics factors. <i>Radiotherapy and Oncology</i> , 2016, 119, S308-S309.	0.3	0
70	EP-1622: Cyberknife® M6TM: peripheral dose evaluation in brain treatments. <i>Radiotherapy and Oncology</i> , 2016, 119, S755-S756.	0.3	0
71	EP-1490: A 3-class density method to monitor doses to the parotid glands and spinal cord in oropharynx IMRT. <i>Radiotherapy and Oncology</i> , 2017, 123, S798-S799.	0.3	0
72	PO-0718: 18-FDG PET/CT parameters to predict survival and recurrence in cervical cancer. <i>Radiotherapy and Oncology</i> , 2017, 123, S376-S377.	0.3	0

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73	Uni or bilateral Irradiation in Cervical Lymph Node Metastases of Unknown Primary?. International Journal of Radiation Oncology Biology Physics, 2018, 102, e367-e368.	0.4	0
74	PV-0428: Adaptive radiotherapy in head and neck cancer to correct tumor underdose and parotid gland overdose. Radiotherapy and Oncology, 2018, 127, S225-S226.	0.3	0
75	OC-0524: Planning Library Based on Population Shape Analysis for Cervical Adaptive Radiotherapy. Radiotherapy and Oncology, 2018, 127, S277.	0.3	0
76	PO-0889: Validation of transit EPID and application for Head & Neck adaptive radiotherapy. Radiotherapy and Oncology, 2018, 127, S471-S472.	0.3	0
77	PO-0962: CBCT dose calculation in head and neck adaptive radiotherapy: accuracy assessment of four methods. Radiotherapy and Oncology, 2018, 127, S528-S529.	0.3	0
78	EP-1172: Characterization of recurrence origin using pre-treatment PET/CT for head and neck cancers. Radiotherapy and Oncology, 2018, 127, S656-S657.	0.3	0
79	EP-1386: Impact of the stereotactic irradiation schedule for non-small-cell lung carcinoma stage I. Radiotherapy and Oncology, 2018, 127, S757.	0.3	0
80	PO-0853 Bladder and urethra subregions predicting urinary toxicity after prostate cancer radiotherapy. Radiotherapy and Oncology, 2019, 133, S449.	0.3	0
81	EP-1521 IMRT for prostate cancer with seminal vesicle involvement : A multicentric retrospective analysis. Radiotherapy and Oncology, 2019, 133, S822.	0.3	0
82	PO-0965 How to find the best radiomics features for prediction of overall survival in SBRT for HCC?. Radiotherapy and Oncology, 2019, 133, S525.	0.3	0
83	PO-1263 Exclusive radiotherapy in early stage anal cancer - outcomes, patterns and predictors of relapse. Radiotherapy and Oncology, 2021, 161, S1042-S1043.	0.3	0
84	SUâ€¢â€¢â€¢â€¢â€¢42: Benefit of Equivalent Uniform Dose in Prostate IMRT Planning to Reduce Bladder Toxicity. Medical Physics, 2015, 42, 3236-3236.	1.6	0
85	PH-0278: Schedule of irradiation impacts the overall survival in case of SBRT for stage I NSCLC. Radiotherapy and Oncology, 2020, 152, S139.	0.3	0