

Michele Avanzo

List of Publications by Year in descending order

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Version: 2024-02-01

76
papers

1,560
citations

361413

20
h-index

315739

38
g-index

77
all docs

77
docs citations

77
times ranked

2235
citing authors

#	ARTICLE	IF	CITATIONS
1	Beyond imaging: The promise of radiomics. <i>Physica Medica</i> , 2017, 38, 122-139.	0.7	336
2	Machine and deep learning methods for radiomics. <i>Medical Physics</i> , 2020, 47, e185-e202.	3.0	232
3	Radiomics and deep learning in lung cancer. <i>Strahlentherapie Und Onkologie</i> , 2020, 196, 879-887.	2.0	131
4	Stereotactic Body Radiation Therapy for Re-irradiation of Persistent or Recurrent Non-Small Cell Lung Cancer. <i>International Journal of Radiation Oncology Biology Physics</i> , 2014, 88, 1114-1119.	0.8	79
5	Radiotherapy-induced miR-223 prevents relapse of breast cancer by targeting the EGF pathway. <i>Oncogene</i> , 2016, 35, 4914-4926.	5.9	63
6	Local High-Dose Radiotherapy Induces Systemic Immunomodulating Effects of Potential Therapeutic Relevance in Oligometastatic Breast Cancer. <i>Frontiers in Immunology</i> , 2017, 8, 1476.	4.8	54
7	In vivo dosimetry with radiochromic films in low-voltage intraoperative radiotherapy of the breast. <i>Medical Physics</i> , 2012, 39, 2359-2368.	3.0	50
8	Use of motion tracking in stereotactic body radiotherapy: Evaluation of uncertainty in off-target dose distribution and optimization strategies. <i>Acta Oncologica</i> , 2006, 45, 943-947.	1.8	49
9	Artificial intelligence applications in medical imaging: A review of the medical physics research in Italy. <i>Physica Medica</i> , 2021, 83, 221-241.	0.7	44
10	Artificial Intelligence and the Medical Physicist: Welcome to the Machine. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 1691.	2.5	34
11	BOLD FMRI integration into radiosurgery treatment planning of cerebral vascular malformations. <i>Medical Physics</i> , 2007, 34, 1176-1184.	3.0	29
12	AI-based applications in hybrid imaging: how to build smart and truly multi-parametric decision models for radiomics. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2019, 46, 2673-2699.	6.4	29
13	Neurocognitive Effects and Necrosis in Childhood Cancer Survivors Treated With Radiation Therapy: A PENTEC Comprehensive Review. <i>International Journal of Radiation Oncology Biology Physics</i> , 2021, , .	0.8	29
14	A Novel Benchmarking Approach to Assess the Agreement among Radiomic Tools. <i>Radiology</i> , 2022, 303, 533-541.	7.3	29
15	Dose to the skin in helical tomotherapy: Results of in vivo measurements with radiochromic films. <i>Physica Medica</i> , 2013, 29, 304-311.	0.7	26
16	Normal tissue complication probability models for severe acute radiological lung injury after radiotherapy for lung cancer. <i>Physica Medica</i> , 2015, 31, 1-8.	0.7	26
17	Spinal radiosurgery: technology and clinical outcomes. <i>Neurosurgical Review</i> , 2009, 32, 1-13.	2.4	23
18	Expanding the medical physicist curricular and professional programme to include Artificial Intelligence. <i>Physica Medica</i> , 2021, 83, 174-183.	0.7	23

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19	Voxel-by-voxel correlation between radiologically radiation induced lung injury and dose after image-guided, intensity modulated radiotherapy for lung tumors. <i>Physica Medica</i> , 2017, 42, 150-156.	0.7	22
20	Loss of p27kip1 increases genomic instability and induces radio-resistance in luminal breast cancer cells. <i>Scientific Reports</i> , 2017, 7, 595.	3.3	22
21	Combining computed tomography and biologically effective dose in radiomics and deep learning improves prediction of tumor response to robotic lung stereotactic body radiation therapy. <i>Medical Physics</i> , 2021, 48, 6257-6269.	3.0	22
22	A Multicentre Evaluation of Dosimetrics Features Reproducibility, Stability and Sensitivity. <i>Cancers</i> , 2021, 13, 3835.	3.7	21
23	Electron Density and Biologically Effective Dose (BED) Radiomics-Based Machine Learning Models to Predict Late Radiation-Induced Subcutaneous Fibrosis. <i>Frontiers in Oncology</i> , 2020, 10, 490.	2.8	20
24	Distant metastasis time to event analysis with CNNs in independent head and neck cancer cohorts. <i>Scientific Reports</i> , 2021, 11, 6418.	3.3	19
25	Complication probability model for subcutaneous fibrosis based on published data of partial and whole breast irradiation. <i>Physica Medica</i> , 2012, 28, 296-306.	0.7	17
26	miR-9 modulates and predicts the response to radiotherapy and EGFR inhibition in HNSCC. <i>EMBO Molecular Medicine</i> , 2021, 13, e12872.	6.9	15
27	Correlation of a hypoxia based tumor control model with observed local control rates in nasopharyngeal carcinoma treated with chemoradiotherapy. <i>Medical Physics</i> , 2010, 37, 1533-1544.	3.0	12
28	Deep learning based time-to-event analysis with PET, CT and joint PET/CT for head and neck cancer prognosis. <i>Computer Methods and Programs in Biomedicine</i> , 2022, 222, 106948.	4.7	12
29	Single-fraction flattening filter-free volumetric modulated arc therapy for lung cancer: Dosimetric results and comparison with flattened beams technique. <i>Medical Dosimetry</i> , 2016, 41, 334-338.	0.9	11
30	Prediction of skin dose in low-dose intraoperative radiotherapy using machine learning models trained on results of <i>in vivo</i> dosimetry. <i>Medical Physics</i> , 2019, 46, 1447-1454.	3.0	11
31	Partial prostate re-irradiation for the treatment of isolated local recurrence of prostate cancer in patients previously treated with primary external beam radiotherapy: short-term results of a monocentric study. <i>Neoplasma</i> , 2021, 68, 216-226.	1.6	8
32	Enhancing the impact of Artificial Intelligence in Medicine: A joint AIFM-INFN Italian initiative for a dedicated cloud-based computing infrastructure. <i>Physica Medica</i> , 2021, 91, 140-150.	0.7	7
33	Applications of artificial intelligence in stereotactic body radiation therapy. <i>Physics in Medicine and Biology</i> , 2022, 67, 16TR01.	3.0	7
34	Image-guided volumetric arc radiotherapy of pancreatic cancer with simultaneous integrated boost: Optimization strategies and dosimetric results. <i>Physica Medica</i> , 2016, 32, 169-175.	0.7	6
35	Ten daily fractions for partial breast irradiation. Long-term results of a prospective phase II trial. <i>Breast Journal</i> , 2019, 25, 243-249.	1.0	6
36	Hypofractionation of partial breast irradiation using radiobiological models. <i>Physica Medica</i> , 2015, 31, 1022-1028.	0.7	5

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37	Electron radiotherapy (IOERT) for applications outside of the breast: Dosimetry and influence of tissue inhomogeneities. <i>Physica Medica</i> , 2020, 69, 82-89.	0.7	5
38	Breast Hypoplasia and Decreased Lactation From Radiation Therapy in Survivors of Pediatric Malignancy: A PENTEC Comprehensive Review. <i>International Journal of Radiation Oncology Biology Physics</i> , 2021, , .	0.8	5
39	Seven fractions to deliver partial breast irradiation: the toxicity is Low. <i>Radiation Oncology</i> , 2017, 12, 86.	2.7	4
40	Focus issue: Artificial intelligence in medical physics. <i>Physica Medica</i> , 2021, 83, 287-291.	0.7	4
41	EP-1906 CBCT delta-radiomics for predicting complete pathological response of rectal cancer after CT-RT. <i>Radiotherapy and Oncology</i> , 2019, 133, S1036.	0.6	3
42	Risks of Breast Hypoplasia and Decreased Lactation from Radiation Therapy (RT) in Survivors of Pediatric Malignancy: Results from the Pediatric Normal Tissue Effects in the Clinic (PENTEC) Initiative. <i>International Journal of Radiation Oncology Biology Physics</i> , 2018, 102, S175-S176.	0.8	2
43	Twenty years of radiobiology in clinical practice: the Italian contribution. <i>Tumori</i> , 2014, 100, 625-35.	1.1	2
44	Multiplexed Plasma Cytokine Chemokine and Growth Factor Profiling in Early-Stage Non-Small Cell Lung Cancer Patients Undergoing Stereotactic Body Radiation Therapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2014, 90, S811-S812.	0.8	1
45	Local NTCP to predict lung tissue density changes on follow-up CT after lung cancer IMRT. <i>Physica Medica</i> , 2016, 32, 2.	0.7	1
46	Modeling the Risk of Neurocognitive Effects from Radiation Therapy in Childhood Cancer Survivors: Initial Results From the Pediatric Normal Tissue Effects in the Clinic (PENTEC) CNS Task Force. <i>International Journal of Radiation Oncology Biology Physics</i> , 2018, 102, S175.	0.8	1
47	SU-GG-T-192: In-Vivo Skin Dosimetry with EBT Radiochromic Films in Helical Tomotherapy Treatments. <i>Medical Physics</i> , 2008, 35, 2770-2770.	3.0	1
48	Cyberknife extracranial radiosurgery: A comparison with step and shoot IMRT. <i>International Journal of Radiation Oncology Biology Physics</i> , 2004, 60, S619-S620.	0.8	0
49	Cyberknife extracranial radiosurgery: A comparison with step and shoot IMRT. <i>International Journal of Radiation Oncology Biology Physics</i> , 2004, 60, S619-S620.	0.8	0
50	Dynamic Extracranial Robotic Radiosurgery by means of a Real-Time Motion Correction System: Analysis of the Reduction of the Planning Target Volume Compared to the Static Technique. <i>International Journal of Radiation Oncology Biology Physics</i> , 2005, 63, S520-S521.	0.8	0
51	195 Evaluation of the treatment planning system of the Cyberknife by means of a comparison to Monte Carlo calculation. <i>Radiotherapy and Oncology</i> , 2005, 76, S96.	0.6	0
52	EP-1059: Radiotherapy after autologous self cell transplant in Hodgkin lymphoma: better outcome for isolated recurrence. <i>Radiotherapy and Oncology</i> , 2014, 111, S6.	0.6	0
53	SBRT for Re-irradiation of Persistent or Recurrent Locally Advanced NSCLC. <i>International Journal of Radiation Oncology Biology Physics</i> , 2014, 90, S606.	0.8	0
54	The German Hodgkin Study Group Stratification Scheme for Newly Diagnosed Hodgkin Lymphoma Is Useful for Predicting Outcome of Patients Receiving Radiation Therapy After Autologous Self Cell Transplant in Relapsed/Refractory Hodgkin Lymphoma. <i>International Journal of Radiation Oncology Biology Physics</i> , 2014, 90, S671.	0.8	0

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55	Hypofractionated Radiation Therapy for Partial Breast Irradiation Based on a Novel NTCP Model for Severe Fibrosis: Clinical Results. <i>International Journal of Radiation Oncology Biology Physics</i> , 2014, 90, S220-S221.	0.8	0
56	Flattening filter free (FFF) rapid arc for single fraction SBRT of the lung reduces treatment time and is dosimetrically equivalent to flattening filter VMAT. <i>Physica Medica</i> , 2016, 32, 2-3.	0.7	0
57	PO-0876: Voxel-by-voxel NTCP model for lung density changes after IMRT. <i>Radiotherapy and Oncology</i> , 2016, 119, S419-S420.	0.6	0
58	EP-1662: Comparison of VMAT for single fraction lung cancer radiotherapy with and without flattening filter. <i>Radiotherapy and Oncology</i> , 2016, 119, S776.	0.6	0
59	Intraoperative radiotherapy during breast-conserving surgery: 10-year of our experience. <i>European Journal of Surgical Oncology</i> , 2016, 42, S201.	1.0	0
60	Authors' Reply to: Radiobiology as a Basic and Clinical Medical Science: What the Physicists have Forgotten. <i>Tumori</i> , 2016, 102, e9-e9.	1.1	0
61	EP-1593: Accuracy of TCP model for nasopharyngeal cancer after more than five years average follow-up. <i>Radiotherapy and Oncology</i> , 2017, 123, S858.	0.6	0
62	Policies for reirradiation of recurrent high-grade gliomas: a survey among Italian radiation oncologists. <i>Tumori</i> , 2018, 104, 466-470.	1.1	0
63	PO-063 Induction chemotherapy followed by radiotherapy for organ preservation in Oropharyngeal Cancer. <i>Radiotherapy and Oncology</i> , 2019, 132, 33-34.	0.6	0
64	PO-122 CT /PET based dosiomics and radiomics model predicts local control of nasopharyngeal carcinoma. <i>Radiotherapy and Oncology</i> , 2019, 132, 62-63.	0.6	0
65	EP-1905 CT /PET based dosiomics and radiomics model predicts local control of nasopharyngeal carcinoma. <i>Radiotherapy and Oncology</i> , 2019, 133, S1035-S1036.	0.6	0
66	EP-1904 3T CE-MRI (peri)tumoral radiomics for prediction of lymphovascular invasion in early breast cancer. <i>Radiotherapy and Oncology</i> , 2019, 133, S1035.	0.6	0
67	Partial-Breast Reirradiation with Intraoperative Radiotherapy (IORT) for Patients Affected By Breast Cancer after Prior Thoracic Radiotherapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2019, 105, E17.	0.8	0
68	OC-0526 Deep learning based time-to-event prediction for a large multicentric cohort of H&N cancer patients. <i>Radiotherapy and Oncology</i> , 2021, 161, S412-S413.	0.6	0
69	SU-FF-T-238: Dosimetry of Small Beams Used in Radiosurgery: A Comparison Between Different Detectors and Monte Carlo Simulation. <i>Medical Physics</i> , 2005, 32, 2004-2004.	3.0	0
70	TU-CJ-6B-01: From Morphological to Functional Definition of Organs at Risk: The Role of FMRI in Radiosurgery. <i>Medical Physics</i> , 2005, 32, 2082-2082.	3.0	0
71	SU-FF-T-361: Dose Distribution in Extracranial Radiosurgery: A Comparison with Step and Shoot IMRT Based On Dose Indexes. <i>Medical Physics</i> , 2005, 32, 2033-2034.	3.0	0
72	SU-FF-J-28: Preliminary Study to Use Non-Rigid Registration for Target Tracking and Dynamic Treatment Planning. <i>Medical Physics</i> , 2005, 32, 1925-1926.	3.0	0

