Michele Avanzo

List of Publications by Year
in descending order

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76	1,560	361413	315739
papers	citations	20	38
		h-index	g-index

77	77	77	2235
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A Novel Benchmarking Approach to Assess the Agreement among Radiomic Tools. Radiology, 2022, 303, 533-541.	7.3	29
2	Deep learning based time-to-event analysis with PET, CT and joint PET/CT for head and neck cancer prognosis. Computer Methods and Programs in Biomedicine, 2022, 222, 106948.	4.7	12
3	Applications of artificial intelligence in stereotactic body radiation therapy. Physics in Medicine and Biology, 2022, 67, 16TR01.	3.0	7
4	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. Neoplasma, 2021, 68, 216-226.	1.6	8
5	Artificial Intelligence and the Medical Physicist: Welcome to the Machine. Applied Sciences (Switzerland), 2021, 11, 1691.	2.5	34
6	Focus issue: Artificial intelligence in medical physics. Physica Medica, 2021, 83, 287-291.	0.7	4
7	Artificial intelligence applications in medical imaging: A review of the medical physics research in Italy. Physica Medica, 2021, 83, 221-241.	0.7	44
8	Distant metastasis time to event analysis with CNNs in independent head and neck cancer cohorts. Scientific Reports, 2021, 11, 6418.	3.3	19
9	Neurocognitive Effects and Necrosis in Childhood Cancer Survivors Treated With Radiation Therapy: A PENTEC Comprehensive Review. International Journal of Radiation Oncology Biology Physics, 2021, , .	0.8	29
10	Expanding the medical physicist curricular and professional programme to include Artificial Intelligence. Physica Medica, 2021, 83, 174-183.	0.7	23
11	miRâ€9 modulates and predicts the response to radiotherapy and EGFR inhibition in HNSCC. EMBO Molecular Medicine, 2021, 13, e12872.	6.9	15
12	A Multicentre Evaluation of Dosiomics Features Reproducibility, Stability and Sensitivity. Cancers, 2021, 13, 3835.	3.7	21
13	OC-0526 Deep learning based time-to-event prediction for a large multicentric cohort of H&N cancer patients. Radiotherapy and Oncology, 2021, 161, S412-S413.	0.6	0
14	Combining computed tomography and biologically effective dose in radiomics and deep learning improves prediction of tumor response to robotic lung stereotactic body radiation therapy. Medical Physics, 2021, 48, 6257-6269.	3.0	22
15	Breast Hypoplasia and Decreased Lactation From Radiation Therapy in Survivors of Pediatric Malignancy: A PENTEC Comprehensive Review. International Journal of Radiation Oncology Biology Physics, 2021, , .	0.8	5
16	Enhancing the impact of Artificial Intelligence in Medicine: A joint AIFM-INFN Italian initiative for a dedicated cloud-based computing infrastructure. Physica Medica, 2021, 91, 140-150.	0.7	7
17	Electron radiotherapy (IOERT) for applications outside of the breast: Dosimetry and influence of tissue inhomogeneities. Physica Medica, 2020, 69, 82-89.	0.7	5
18	Machine and deep learning methods for radiomics. Medical Physics, 2020, 47, e185-e202.	3.0	232

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19	Radiomics and deep learning in lung cancer. Strahlentherapie Und Onkologie, 2020, 196, 879-887.	2.0	131
20	Electron Density and Biologically Effective Dose (BED) Radiomics-Based Machine Learning Models to Predict Late Radiation-Induced Subcutaneous Fibrosis. Frontiers in Oncology, 2020, 10, 490.	2.8	20
21	PO-0951: Which is the best once-daily schedule for partial breast irradiation?Results of three phase-2 trials. Radiotherapy and Oncology, 2020, 152, S508-S509.	0.6	0
22	PO-1547: Prediction of late subcutaneous fibrosis after partial breast irradiation by radiomics and dosiomics. Radiotherapy and Oncology, 2020, 152, S837.	0.6	0
23	PO-063 Induction chemotherapy followed by radiotherapy for organ preservation in Oropharyngeal Cancer. Radiotherapy and Oncology, 2019, 132, 33-34.	0.6	0
24	PO-122 CT /PET based dosiomics and radiomics model predicts local control of nasopharyngeal carcinoma. Radiotherapy and Oncology, 2019, 132, 62-63.	0.6	0
25	AI-based applications in hybrid imaging: how to build smart and truly multi-parametric decision models for radiomics. European Journal of Nuclear Medicine and Molecular Imaging, 2019, 46, 2673-2699.	6.4	29
26	EP-1905 CT /PET based dosiomics and radiomics model predicts local control of nasopharyngeal carcinoma. Radiotherapy and Oncology, 2019, 133, S1035-S1036.	0.6	0
27	EP-1904 3T CE-MRI (peri)tumoral radiomics for prediction of lymphovascular invasion in early breast cancer. Radiotherapy and Oncology, 2019, 133, S1035.	0.6	0
28	EP-1906 CBCT delta-radiomics for predicting complete pathological response of rectal cancer after CT-RT. Radiotherapy and Oncology, 2019, 133, S1036.	0.6	3
29	Partial-Breast Reirradiation with Intraoperative Radiotherapy (IORT) for Patients Affected By Breast Cancer after Prior Thoracic Radiotherapy. International Journal of Radiation Oncology Biology Physics, 2019, 105, E17.	0.8	0
30	Ten daily fractions for partial breast irradiation. Long-term results of a prospective phase II trial. Breast Journal, 2019, 25, 243-249.	1.0	6
31	Prediction of skin dose in lowâ€<scp>kV</scp> intraoperative radiotherapy using machine learning models trained on results of inÂvivo dosimetry. Medical Physics, 2019, 46, 1447-1454.	3.0	11
32	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. International Journal of Radiation Oncology Biology Physics, 2018, 102, S175-S176.	0.8	2
33	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. International Journal of Radiation Oncology Biology Physics, 2018, 102, S175.	0.8	1
34	Policies for reirradiation of recurrent high-grade gliomas: a survey among Italian radiation oncologists. Tumori, 2018, 104, 466-470.	1.1	0
35	Beyond imaging: The promise of radiomics. Physica Medica, 2017, 38, 122-139.	0.7	336
36	Voxel-by-voxel correlation between radiologically radiation induced lung injury and dose after image-guided, intensity modulated radiotherapy for lung tumors. Physica Medica, 2017, 42, 150-156.	0.7	22

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37	EP-1593: Accuracy of TCP model for nasopharyngeal cancer after more than five years average follow-up. Radiotherapy and Oncology, 2017, 123, S858.	0.6	0
38	Loss of p27kip1 increases genomic instability and induces radio-resistance in luminal breast cancer cells. Scientific Reports, 2017, 7, 595.	3.3	22
39	Seven fractions to deliver partial breast irradiation: the toxicity is Low. Radiation Oncology, 2017, 12, 86.	2.7	4
40	Local High-Dose Radiotherapy Induces Systemic Immunomodulating Effects of Potential Therapeutic Relevance in Oligometastatic Breast Cancer. Frontiers in Immunology, 2017, 8, 1476.	4.8	54
41	Flattening filter free (FFF) rapid arc for single fraction SBRT of the lung reduces treatment time and is dosimetrically equivalent to flattening filter VMAT. Physica Medica, 2016, 32, 2-3.	0.7	0
42	Radiotherapy-induced miR-223 prevents relapse of breast cancer by targeting the EGF pathway. Oncogene, 2016, 35, 4914-4926.	5.9	63
43	Image-guided volumetric arc radiotherapy of pancreatic cancer with simultaneous integrated boost: Optimization strategies and dosimetric results. Physica Medica, 2016, 32, 169-175.	0.7	6
44	PO-0876: Voxel-by-voxel NTCP model for lung density changes after IMRT. Radiotherapy and Oncology, 2016, 119, S419-S420.	0.6	0
45	EP-1662: Comparison of VMAT for single fraction lung cancer radiotherapy with and without flattening filter. Radiotherapy and Oncology, 2016, 119, S776.	0.6	0
46	Intraoperative radiotherapy during breast-conserving surgery: 10-year of our experience. European Journal of Surgical Oncology, 2016, 42, S201.	1.0	0
47	Single-fraction flattening filterâ€“free volumetric modulated arc therapy for lung cancer: Dosimetric results and comparison with flattened beams technique. Medical Dosimetry, 2016, 41, 334-338.	0.9	11
48	Authorsâ€™ Reply to: Radiobiology as a Basic and Clinical Medical Science: What the Physicists have Forgotten. Tumori, 2016, 102, e9-e9.	1.1	0
49	Local NTCP to predict lung tissue density changes on follow-up CT after lung cancer IMRT. Physica Medica, 2016, 32, 2.	0.7	1
50	Hypofractionation of partial breast irradiation using radiobiological models. Physica Medica, 2015, 31, 1022-1028.	0.7	5
51	Normal tissue complication probability models for severe acute radiological lung injury after radiotherapy for lung cancer. Physica Medica, 2015, 31, 1-8.	0.7	26
52	EP-1059: Radiotherapy after autologous self cell transplant in Hodgkin lymphoma: better outcome for isolated recurrence. Radiotherapy and Oncology, 2014, 111, S6.	0.6	0
53	SBRT for Re-irradiation of Persistent or Recurrent Locally Advanced NSCLC. International Journal of Radiation Oncology Biology Physics, 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. International Journal of Radiation Oncology Biology Physics, 2014, 90, S671.	0.8	0

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55	Multiplexed Plasma Cytokine Chemokine and Growth Factor Profiling in Early-Stage Non-Small Cell Lung Cancer Patients Undergoing Stereotactic Body Radiation Therapy. International Journal of Radiation Oncology Biology Physics, 2014, 90, S811-S812.	0.8	1
56	Hypofractionated Radiation Therapy for Partial Breast Irradiation Based on a Novel NTCP Model for Severe Fibrosis: Clinical Results. International Journal of Radiation Oncology Biology Physics, 2014, 90, S220-S221.	0.8	0
57	Stereotactic Body Radiation Therapy for Re-irradiation of Persistent or Recurrent Non-Small Cell Lung Cancer. International Journal of Radiation Oncology Biology Physics, 2014, 88, 1114-1119.	0.8	79
58	Twenty years of radiobiology in clinical practice: the Italian contribution. Tumori, 2014, 100, 625-35.	1.1	2
59	Dose to the skin in helical tomotherapy: Results of inÂvivo measurements with radiochromic films. Physica Medica, 2013, 29, 304-311.	0.7	26
60	In vivo dosimetry with radiochromic films in lowâ€voltage intraoperative radiotherapy of the breast. Medical Physics, 2012, 39, 2359-2368.	3.0	50
61	Complication probability model for subcutaneous fibrosis based on published data of partial and whole breast irradiation. Physica Medica, 2012, 28, 296-306.	0.7	17
62	Correlation of a hypoxia based tumor control model with observed local control rates in nasopharyngeal carcinoma treated with chemoradiotherapy. Medical Physics, 2010, 37, 1533-1544.	3.0	12
63	Spinal radiosurgery: technology and clinical outcomes. Neurosurgical Review, 2009, 32, 1-13.	2.4	23
64	SU-GG-T-192: In-Vivo Skin Dosimetry with EBT Radiochromic Films in Helical Tomotherapy Treatments. Medical Physics, 2008, 35, 2770-2770.	3.0	1
65	WE-C-AUD B-01: Tumor Control Probability of Undifferentiated Nasopharyngeal Cancer. Medical Physics, 2008, 35, 2933-2933.	3.0	0
66	BOLD FMRI integration into radiosurgery treatment planning of cerebral vascular malformations. Medical Physics, 2007, 34, 1176-1184.	3.0	29
67	SUâ€FFâ€Tâ€08: A Comparison of EBT Radiochromic and EDR2 Radiographic Films for Tomotherapy Treatments Dose Verification. Medical Physics, 2007, 34, 2402-2402.	3.0	0
68	Use of motion tracking in stereotactic body radiotherapy: Evaluation of uncertainty in off-target dose distribution and optimization strategies. Acta OncolÃ³gica, 2006, 45, 943-947.	1.8	49
69	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. International Journal of Radiation Oncology Biology Physics, 2005, 63, S520-S521.	0.8	0
70	195 Evaluation of the treatment planning system of the Cyberknife by means of a comparison to Monte Carlo calculation. Radiotherapy and Oncology, 2005, 76, S96.	0.6	0
71	SU-FF-T-238: Dosimetry of Small Beams Used in Radiosurgery: A Comparison Between Different Detectors and Monte Carlo Simulation. Medical Physics, 2005, 32, 2004-2004.	3.0	0
72	TU-C-J-6B-01: From Morphological to Functional Definition of Organs at Risk: The Role of FMRI in Radiosurgery. Medical Physics, 2005, 32, 2082-2082.	3.0	0

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73	SU-FF-T-361: Dose Distribution in Extracranial Radiosurgery: A Comparison with Step and Shoot IMRT Based On Dose Indexes. Medical Physics, 2005, 32, 2033-2034.	3.0	0
74	SU-FF-J-28: Preliminary Study to Use Non-Rigid Registration for Target Tracking and Dynamic Treatment Planning. Medical Physics, 2005, 32, 1925-1926.	3.0	0
75	Cyberknife extracranial radiosurgery: A comparison with step and shoot IMRT. International Journal of Radiation Oncology Biology Physics, 2004, 60, S619-S620.	0.8	0
76	Cyberknife extracranial radiosurgery: A comparison with step and shoot IMRT. International Journal of Radiation Oncology Biology Physics, 2004, 60, S619-S620.	0.8	0