Luca Boldrini

List of Publications by Year
in descending order

121 papers	**4,740** citations	185998 **28** h-index	118652 **62** g-index
125 all docs	**125** docs citations	**125** times ranked	**4930** citing authors

#	Article	IF	Citations
1	The Image Biomarker Standardization Initiative: Standardized Quantitative Radiomics for High-Throughput Image-based Phenotyping. Radiology, 2020, 295, 328-338.	3.6	1,869
2	MR-guidance in clinical reality: current treatment challenges and future perspectives. Radiation Oncology, 2019, 14, 92.	1.2	252
3	Delta radiomics for rectal cancer response prediction with hybrid 0.35ÂT magnetic resonance-guided radiotherapy (MRgRT): a hypothesis-generating study for an innovative personalized medicine approach. Radiologia Medica, 2019, 124, 145-153.	4.7	112
4	Delta radiomics: a systematic review. Radiologia Medica, 2021, 126, 1571-1583.	4.7	102
5	Online adaptive magnetic resonance guided radiotherapy for pancreatic cancer: state of the art, pearls and pitfalls. Radiation Oncology, 2019, 14, 71.	1.2	100
6	Deep Learning: A Review for the Radiation Oncologist. Frontiers in Oncology, 2019, 9, 977.	1.3	99
7	Fractal-based radiomic approach to predict complete pathological response after chemo-radiotherapy in rectal cancer. Radiologia Medica, 2018, 123, 286-295.	4.7	91
8	Magnetic Resonance, Vendor-independent, Intensity Histogram Analysis Predicting Pathologic Complete Response After Radiochemotherapy of Rectal Cancer. International Journal of Radiation Oncology Biology Physics, 2018, 102, 765-774.	0.4	81
9	A field strength independent MR radiomics model to predict pathological complete response in locally advanced rectal cancer. Radiologia Medica, 2021, 126, 421-429.	4.7	67
10	A deep learning approach to generate synthetic CT in low field MR-guided adaptive radiotherapy for abdominal and pelvic cases. Radiotherapy and Oncology, 2020, 153, 205-212.	0.3	62
11	Artificial Intelligence in magnetic Resonance guided Radiotherapy: Medical and physical considerations on state of art and future perspectives. Physica Medica, 2021, 85, 175-191.	0.4	60
12	Predicting tumour motion during the whole radiotherapy treatment: a systematic approach for thoracic and abdominal lesions based on real time MR. Radiotherapy and Oncology, 2018, 129, 456-462.	0.3	56
13	Automatic delineation for replanning in nasopharynx radiotherapy: What is the agreement among experts to be considered as benchmark?. Acta OncolÃ³gica, 2013, 52, 1417-1422.	0.8	49
14	Recommendations on how to establish evidence from auto-segmentation software in radiotherapy. Radiotherapy and Oncology, 2014, 112, 317-320.	0.3	48
15	MR-guided radiotherapy in rectal cancer: First clinical experience of an innovative technology. Clinical and Translational Radiation Oncology, 2019, 18, 80-86.	0.9	48
16	On-line adaptive MR guided radiotherapy for locally advanced pancreatic cancer: Clinical and dosimetric considerations. Technical Innovations and Patient Support in Radiation Oncology, 2020, 15, 15-21.	0.6	48
17	Radiation therapy during the coronavirus disease 2019 (covid-19) pandemic in Italy: a view of the nation's young oncologists. ESMO Open, 2020, 5, e000779.	2.0	46
18	Template-based automation of treatment planning in advanced radiotherapy: a comprehensive dosimetric and clinical evaluation. Scientific Reports, 2020, 10, 423.	1.6	45

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19	ENT COBRA ONTOLOGY: the covariates classification system proposed by the Head & Neck and Skin GEC-ESTRO Working Group for interdisciplinary standardized data collection in head and neck patient cohorts treated with interventional radiotherapy (brachytherapy). Journal of Contemporary Brachytherapy, 2018, 10, 260-266.	0.4	44
20	Translational Research in the Era of Precision Medicine: Where We Are and Where We Will Go. Journal of Personalized Medicine, 2021, 11, 216.	1.1	44
21	MR-Guided Radiotherapy for Liver Malignancies. Frontiers in Oncology, 2021, 11, 616027.	1.3	43
22	Clinical validation of atlas-based auto-segmentation of pelvic volumes and normal tissue in rectal tumors using auto-segmentation computed system. Acta Oncológica, 2013, 52, 1676-1681.	0.8	39
23	Moddicom: a complete and easily accessible library for prognostic evaluations relying on image features. , 2015, 2015, 771-4.		39
24	Comparison of radiomics tools for image analyses and clinical prediction in nasopharyngeal carcinoma. British Journal of Radiology, 2019, 92, 20190271.	1.0	38
25	Delta Radiomics Can Predict Distant Metastasis in Locally Advanced Rectal Cancer: The Challenge to Personalize the Cure. Frontiers in Oncology, 2020, 10, 595012.	1.3	38
26	ESTRO-ACROP recommendations on the clinical implementation of hybrid MR-linac systems in radiation oncology. Radiotherapy and Oncology, 2021, 159, 146-154.	0.3	37
27	External Validation of Early Regression Index (ERITCP) as Predictor of Pathologic Complete Response in Rectal Cancer Using Magnetic Resonance-Guided Radiation Therapy. International Journal of Radiation Oncology Biology Physics, 2020, 108, 1347-1356.	0.4	34
28	Nomogram for predicting radiation maculopathy in patients treated with Ruthenium-106 plaque brachytherapy for uveal melanoma. Journal of Contemporary Brachytherapy, 2017, 9, 540-547.	0.4	33
29	INTERACTS (INTErventional Radiotherapy ACtive Teaching School) guidelines for quality assurance in choroidal melanoma interventional radiotherapy (brachytherapy) procedures. Journal of Contemporary Brachytherapy, 2017, 3, 287-295.	0.4	31
30	Delta radiomics for rectal cancer response prediction using low field magnetic resonance guided radiotherapy: an external validation. Physica Medica, 2021, 84, 186-191.	0.4	31
31	Delta Radiomics Analysis for Local Control Prediction in Pancreatic Cancer Patients Treated Using Magnetic Resonance Guided Radiotherapy. Diagnostics, 2021, 11, 72.	1.3	31
32	Prediction of Breast Cancer Histological Outcome by Radiomics and Artificial Intelligence Analysis in Contrast-Enhanced Mammography. Cancers, 2022, 14, 2132.	1.7	31
33	Does restaging MRI radiomics analysis improve pathological complete response prediction in rectal cancer patients? A prognostic model development. Radiologia Medica, 2022, 127, 11-20.	4.7	30
34	A new standardized data collection system for interdisciplinary thyroid cancer management: Thyroid COBRA. European Journal of Internal Medicine, 2018, 53, 73-78.	1.0	29
35	Artificial intelligence (AI) and interventional radiotherapy (brachytherapy): state of art and future perspectives. Journal of Contemporary Brachytherapy, 2020, 12, 497-500.	0.4	28
36	Online MR guided radiotherapy for rectal cancer. New opportunities. Clinical and Translational Radiation Oncology, 2019, 18, 66-67.	0.9	27

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37	MR-Guided Radiotherapy for Rectal Cancer: Current Perspective on Organ Preservation. Frontiers in Oncology, 2021, 11, 619852.	1.3	27
38	Radiomics-based prediction of two-year clinical outcome in locally advanced cervical cancer patients undergoing neoadjuvant chemoradiotherapy. Radiologia Medica, 2022, 127, 498-506.	4.7	27
39	Patient positioning and immobilization procedures for hybrid MR-Linac systems. Radiation Oncology, 2021, 16, 183.	1.2	26
40	Interventional radiotherapy (brachytherapy) for squamous cell carcinoma of the nasal vestibule: a multidisciplinary systematic review. European Journal of Dermatology, 2019, 29, 417-421.	0.3	25
41	On the accuracy of bulk synthetic CT for MR-guided online adaptive radiotherapy. Radiologia Medica, 2020, 125, 157-164.	4.7	24
42	Experimental evaluation of the impact of low tesla transverse magnetic field on dose distribution in presence of tissue interfaces. Physica Medica, 2018, 53, 80-85.	0.4	22
43	Stability of dosomics features extraction on grid resolution and algorithm for radiotherapy dose calculation. Physica Medica, 2020, 77, 30-35.	0.4	21
44	A Multicentre Evaluation of Dosiomics Features Reproducibility, Stability and Sensitivity. Cancers, 2021, 13, 3835.	1.7	21
45	Radiomics in the Setting of Neoadjuvant Radiotherapy: A New Approach for Tailored Treatment. Cancers, 2021, 13, 3590.	1.7	21
46	The Role of Artificial Intelligence in Managing Multimorbidity and Cancer. Journal of Personalized Medicine, 2021, 11, 314.	1.1	19
47	Low Tesla magnetic resonance guided radiotherapy for locally advanced cervical cancer: first clinical experience. Tumori, 2020, 106, 497-505.	0.6	19
48	CT-Based Radiomics and Deep Learning for BRCA Mutation and Progression-Free Survival Prediction in Ovarian Cancer Using a Multicentric Dataset. Cancers, 2022, 14, 2739.	1.7	19
49	A new frontier of image guidance: Organs at risk avoidance with <scp>MRI</scp>‐guided respiratory‐gated intensity modulated radiotherapy: Technical note and report of a case. Journal of Applied Clinical Medical Physics, 2019, 20, 194-198.	0.8	18
50	Role of radiation oncology in modern multidisciplinary cancer treatment. Molecular Oncology, 2020, 14, 1431-1441.	2.1	18
51	MRI-guided stereotactic radiation therapy for hepatocellular carcinoma: a feasible and safe innovative treatment approach. Journal of Cancer Research and Clinical Oncology, 2021, 147, 2057-2068.	1.2	18
52	Pretreatment MRI Radiomics Based Response Prediction Model in Locally Advanced Cervical Cancer. Diagnostics, 2021, 11, 631.	1.3	17
53	Outcomes and toxicities of re-irradiation for prostate cancer: A systematic review on behalf of the Re-Irradiation Working Group of the Italian Association of Radiotherapy and Clinical Oncology (AIRO). Cancer Treatment Reviews, 2021, 95, 102176.	3.4	17
54	The impact of radiomics in diagnosis and staging of pancreatic cancer. Therapeutic Advances in Gastrointestinal Endoscopy, 2022, 15, 263177452210815.	1.2	17

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55	Quantitative analysis of MRI‐guided radiotherapy treatment process time for tumor real‐time gating efficiency. Journal of Applied Clinical Medical Physics, 2020, 21, 70-79.	0.8	16
56	Radiogenomics prediction for MYCN amplification in neuroblastoma: A hypothesis generating study. Pediatric Blood and Cancer, 2021, 68, e29110.	0.8	16
57	Germline BRCA 1-2 status prediction through ovarian ultrasound images radiogenomics: a hypothesis generating study (PROBE study). Scientific Reports, 2020, 10, 16511.	1.6	15
58	Evaluation of an Early Regression Index (ERITCP) as Predictor of Pathological Complete Response in Cervical Cancer: A Pilot-Study. Applied Sciences (Switzerland), 2020, 10, 8001.	1.3	15
59	MR-guided stereotactic body radiation therapy for primary cardiac sarcomas. Radiation Oncology, 2021, 16, 60.	1.2	15
60	THUNDER 2: THeragnostic Utilities for Neoplastic DisEases of the Rectum by MRI guided radiotherapy. BMC Cancer, 2022, 22, 67.	1.1	15
61	Convolutional Neural Network Based on Fluorescein Angiography Images for Retinopathy of Prematurity Management. Translational Vision Science and Technology, 2020, 9, 37.	1.1	14
62	Conducting research in Radiation Oncology remotely during the COVID-19 pandemic: Coping with isolation. Clinical and Translational Radiation Oncology, 2020, 24, 53-59.	0.9	14
63	Personalized Clinical Phenotyping through Systems Medicine and Artificial Intelligence. Journal of Personalized Medicine, 2021, 11, 265.	1.1	14
64	Use of Indirect Target Gating in Magnetic Resonance-guided Liver Stereotactic Body Radiotherapy: Case Report of an Oligometastatic Patient. Cureus, 2018, 10, e2292.	0.2	14
65	Offline and online LSTM networks for respiratory motion prediction in MR-guided radiotherapy. Physics in Medicine and Biology, 2022, 67, 095006.	1.6	14
66	Reliability of ITV approach to varying treatment fraction time: a retrospective analysis based on 2D cine MR images. Radiation Oncology, 2020, 15, 152.	1.2	13
67	Automatic segmentation software in locally advanced rectal cancer: READY (REsearch program in) Tj ETQq1 1 0.784314 rgBT /Overlo	0.8	13
68	Personalized automation of treatment planning in head-neck cancer: A step forward for quality in radiation therapy?. Physica Medica, 2021, 82, 7-16.	0.4	13
69	Hybrid Tri-Co-60 MRI radiotherapy for locally advanced rectal cancer: An in silico evaluation. Technical Innovations and Patient Support in Radiation Oncology, 2018, 6, 5-10.	0.6	12
70	Shoulder girdle impairment in breast cancer survivors: the role of range of motion as predictive factor for dose distribution and clinical outcome. Tumori, 2019, 105, 319-330.	0.6	12
71	Multi-object tracking in MRI-guided radiotherapy using the tracking-learning-detection framework. Radiotherapy and Oncology, 2019, 138, 25-29.	0.3	11
72	Applicability of a pathological complete response magnetic resonance-based radiomics model for locally advanced rectal cancer in intercontinental cohort. Radiation Oncology, 2022, 17, 78.	1.2	11

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73	CT angiography-based radiomics as a tool for carotid plaque characterization: a pilot study. Radiologia Medica, 2022, 127, 743-753.	4.7	11
74	Characterization of an inorganic scintillator for small‐field dosimetry in MR‐guided radiotherapy. Journal of Applied Clinical Medical Physics, 2020, 21, 244-251.	0.8	10
75	ESTRO vision 2030: the young Italian Association of Radiotherapy and Clinical Oncology (yAIRO) commitment statement. Radiologia Medica, 2021, 126, 1374-1376.	4.7	10
76	The role of 18F-FDG PET/CT radiomics in lymphoma. Clinical and Translational Imaging, 2021, 9, 589-598.	1.1	10
77	Hypofractionated Radiotherapy in Head and Neck Cancer Elderly Patients: A Feasibility and Safety Systematic Review for the Clinician. Frontiers in Oncology, 2021, 11, 761393.	1.3	10
78	Hybrid MRI guided radiotherapy in locally advanced cervical cancer: Case report of an innovative personalized therapeutic approach. Clinical and Translational Radiation Oncology, 2020, 20, 27-29.	0.9	9
79	Magnetic resonance‐guided radiotherapy feasibility in elderly cancer patients: proposal of the MASTER scoring system. Tumori, 2021, 107, 26-31.	0.6	9
80	New fractionations in breast cancer: a dosimetric study of 3D‐CRT versus VMAT. Journal of Medical Radiation Sciences, 2022, 69, 227-235.	0.8	9
81	Radiomics in Oncological PET Imaging: A Systematic Review—Part 1, Supradiaphragmatic Cancers. Diagnostics, 2022, 12, 1329.	1.3	9
82	A predictive nomogram for trismus after radiotherapy for head and neck cancer. Radiotherapy and Oncology, 2022, 173, 231-239.	0.3	9
83	Evaluation of a simplified optimizer for MR‐guided adaptive RT in case of pancreatic cancer. Journal of Applied Clinical Medical Physics, 2019, 20, 20-30.	0.8	8
84	A Predictive Model of 2yDFS During MR-Guided RT Neoadjuvant Chemoradiotherapy in Locally Advanced Rectal Cancer Patients. Frontiers in Oncology, 2022, 12, 831712.	1.3	8
85	Prognostic Factors and Long-Term Survival in Locally Advanced NSCLC with Pathological Complete Response after Surgical Resection Following Neoadjuvant Therapy. Cancers, 2020, 12, 3572.	1.7	7
86	Radiotherapy imaging: An unexpected ally in fighting COVID 19 pandemic. Radiotherapy and Oncology, 2020, 148, 223-224.	0.3	7
87	Development of a Digital Research Assistant for the Management of Patients' Enrollment in Oncology Clinical Trials within a Research Hospital. Journal of Personalized Medicine, 2021, 11, 244.	1.1	7
88	Case Report: First in Human Online Adaptive MR Guided SBRT of Peritoneal Carcinomatosis Nodules: A New Therapeutic Approach for the Oligo-Metastatic Patient. Frontiers in Oncology, 2020, 10, 601739.	1.3	7
89	Masaoka-Koga and TNM Staging System in Thymic Epithelial Tumors: Prognostic Comparison and the Role of the Number of Involved Structures. Cancers, 2021, 13, 5254.	1.7	7
90	The role of feature-based radiomics for predicting response and radiation injury after stereotactic radiation therapy for brain metastases: A critical review by the Young Group of the Italian Association of Radiotherapy and Clinical Oncology (yAIRO). Translational Oncology, 2022, 15, 101275.	1.7	7

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91	Modern Management of Esophageal Cancer: Radio-Oncology in Neoadjuvancy, Adjuvancy and Palliation. Cancers, 2022, 14, 431.	1.7	7
92	Role of upper abdominal reirradiation for gastrointestinal malignancies: aÂsystematic review of cumulative dose, toxicity, and outcomes on behalf of the Re-Irradiation Working Group of the Italian Association of Radiotherapy and Clinical Oncology (AIRO). Strahlentherapie Und Onkologie, 2020, 196, 1-14.	1.0	6
93	Abscopal effect and interventional oncology: state of art and future perspectives. European Review for Medical and Pharmacological Sciences, 2020, 24, 773-776.	0.5	6
94	Case Report: A Case Report of Stereotactic Ventricular Arrhythmia Radioablation (STAR) on Large Cardiac Target Volume by Highly Personalized Inter- and Intra-fractional Image Guidance. Frontiers in Cardiovascular Medicine, 2020, 7, 565471.	1.1	5
95	Delivery of online adaptive magnetic resonance guided radiotherapy based on isodose boundaries. Physics and Imaging in Radiation Oncology, 2021, 18, 78-81.	1.2	5
96	Radiomic models for lymph node metastasis prediction in cervical cancer: can we think beyond sentinel lymph node?. Translational Oncology, 2021, 14, 101185.	1.7	5
97	Can Radiotherapy Empower the Host Immune System to Counterattack Neoplastic Cells? A Systematic Review on Tumor Microenvironment Radiomodulation. Current Oncology, 2022, 29, 4612-4624.	0.9	5
98	Application of Artificial Neural Network to Preoperative 18F-FDG PET/CT for Predicting Pathological Nodal Involvement in Non-small-cell Lung Cancer Patients. Frontiers in Medicine, 2021, 8, 664529.	1.2	4
99	Patientsâ€™ Satisfaction by SmileInTM Totems in Radiotherapy: A Two-Year Mono-Institutional Experience. Healthcare (Switzerland), 2021, 9, 1268.	1.0	4
100	Radiation therapy for prostate cancer: Whatâ€™s the best in 2021. Urologia, 2022, 89, 5-15.	0.3	4
101	Unconventional radiotherapy to enhance immunotherapy efficacy in bulky tumors: a case report. Immunotherapy, 2021, 13, 1457-1463.	1.0	4
102	Beyond geometrical overlap: a Dosimetrical Evaluation of automated volumes Adaptation (DEA) in head and neck replanning. Technical Innovations and Patient Support in Radiation Oncology, 2017, 3-4, 1-6.	0.6	3
103	Radiation therapy technologistsâ€™ involvement and opinion in research: A national survey in Italy. Technical Innovations and Patient Support in Radiation Oncology, 2020, 15, 11-14.	0.6	3
104	Oncotype DX Predictive Nomogram for Recurrence Score Output: The Novel System ADAPTED01 Based on Quantitative Immunochemistry Analysis. Clinical Breast Cancer, 2020, 20, e600-e611.	1.1	3
105	Hypofractionated sequential radiotherapy boost: a promising strategy in inoperable locally advanced pancreatic cancer patients. Journal of Cancer Research and Clinical Oncology, 2021, 147, 661-667.	1.2	3
106	On the Feasibility of Distributed Process Mining in Healthcare. Lecture Notes in Computer Science, 2019, , 445-452.	1.0	3
107	Occupational hand dermatitis web survey in a university hospital during COVID-19 pandemic: the SHIELD study. Medicina Del Lavoro, 2021, 112, 320-326.	0.3	3
108	Local tuning of radiomics-based model for predicting pathological response to neoadjuvant chemoradiotherapy in locally advanced rectal cancer. BMC Medical Imaging, 2022, 22, 44.	1.4	3

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109	Fractal-Based Radiomic Approach to Tailor the Chemotherapy Treatment in Rectal Cancer: A Generating Hypothesis Study. Frontiers in Oncology, 2021, 11, 774413.	1.3	3
110	New dosimetric parameters to predict ano-rectal toxicity during radiotherapy treatment. Physica Medica, 2022, 99, 55-60.	0.4	3
111	Role of Peripheral Blood Markers for Detecting Response and Predicting Prognosis in Patients with Non-small-cell Lung Cancer Undergoing Neoadjuvant Therapy and Surgery. Lung, 2022, 200, 393-400.	1.4	3
112	The Assisi Think Tank Meeting Breast Large Database for Standardized Data Collection in Breast Cancerâ€"ATTM.BLADE. Journal of Personalized Medicine, 2021, 11, 143.	1.1	2
113	RadioBio data: A Moddicom Module to Predict Tumor Control Probability and Normal Tissue Complication Probability in Radiotherapy. , 2016, , .		2
114	Artificial Intelligence and OCT Angiography in Full Thickness Macular Hole. New Developments for Personalized Medicine. Diagnostics, 2021, 11, 2319.	1.3	2
115	CT-based radiomics modeling for skull dysmorphology severity and surgical outcome prediction in children with isolated sagittal synostosis: a hypothesis-generating study. Radiologia Medica, 2022, 127, 616-626.	4.7	2
116	Paget' s disease of scrotum and penis case report of a reâ€irradiation and review of the literature. Dermatologic Therapy, 2020, 33, e13890.	0.8	1
117	P-166 Baseline radiomics features in metastatic colorectal cancer: Correlation with metastatic site and clinical-pathological characteristics. Annals of Oncology, 2020, 31, S144.	0.6	0
118	Baseline radiomics features (RF) in metastatic colorectal cancer (mCRC): Correlation with m site and clinical-pathological characteristics.. Journal of Clinical Oncology, 2020, 38, e15589-e15589.	0.8	0
119	Imaging-Based Prediction Models. Medical Radiology, 2020, , 361-377.	0.0	0
120	Radiofrequency Thermoablation and Hypofractionated Radiotherapy Combined Treatment for Bone Metastases: A Retrospective Study. Oncology Research and Treatment, 2022, 45, 88-93.	0.8	0
121	Neoadjuvant Chemoradiotherapy With Simultaneous Integrated Boost in Locally Advanced Cervical Cancer: Long Term Results of a Single-Center Experience. Frontiers in Oncology, 2022, 12, .	1.3	0