

Hugo J W L Aerts

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184
papers

23,509
citations

63
h-index

153
g-index

239
ext. papers

31,668
ext. citations

7.6
avg, IF

7.07
L-index

#	Paper	IF	Citations
184	Decoding tumour phenotype by noninvasive imaging using a quantitative radiomics approach. <i>Nature Communications</i> , 2014 , 5, 4006	17.4	2330
183	Radiomics: extracting more information from medical images using advanced feature analysis. <i>European Journal of Cancer</i> , 2012 , 48, 441-6	7.5	2278
182	Computational Radiomics System to Decode the Radiographic Phenotype. <i>Cancer Research</i> , 2017 , 77, e104-e107	10.1	1612
181	Tracking the Evolution of Non-Small-Cell Lung Cancer. <i>New England Journal of Medicine</i> , 2017 , 376, 2109-2121	59.2	1156
180	Radiomics: the process and the challenges. <i>Magnetic Resonance Imaging</i> , 2012 , 30, 1234-48	3.3	1156
179	Artificial intelligence in radiology. <i>Nature Reviews Cancer</i> , 2018 , 18, 500-510	31.3	916
178	Phylogenetic ctDNA analysis depicts early-stage lung cancer evolution. <i>Nature</i> , 2017 , 545, 446-451	50.4	796
177	The Image Biomarker Standardization Initiative: Standardized Quantitative Radiomics for High-Throughput Image-based Phenotyping. <i>Radiology</i> , 2020 , 295, 328-338	20.5	734
176	Allele-Specific HLA Loss and Immune Escape in Lung Cancer Evolution. <i>Cell</i> , 2017 , 171, 1259-1271.e11	56.2	541
175	Imaging biomarker roadmap for cancer studies. <i>Nature Reviews Clinical Oncology</i> , 2017 , 14, 169-186	19.4	532
174	Machine Learning methods for Quantitative Radiomic Biomarkers. <i>Scientific Reports</i> , 2015 , 5, 13087	4.9	525
173	Applications and limitations of radiomics. <i>Physics in Medicine and Biology</i> , 2016 , 61, R150-66	3.8	516
172	CT-based radiomic signature predicts distant metastasis in lung adenocarcinoma. <i>Radiotherapy and Oncology</i> , 2015 , 114, 345-50	5.3	444
171	Robust Radiomics feature quantification using semiautomatic volumetric segmentation. <i>PLoS ONE</i> , 2014 , 9, e102107	3.7	363
170	Inconsistency in large pharmacogenomic studies. <i>Nature</i> , 2013 , 504, 389-93	50.4	360
169	Artificial intelligence in cancer imaging: Clinical challenges and applications. <i>Ca-A Cancer Journal for Clinicians</i> , 2019 , 69, 127-157	220.7	319
168	Identification of residual metabolic-active areas within individual NSCLC tumours using a pre-radiotherapy (18)Fluorodeoxyglucose-PET-CT scan. <i>Radiotherapy and Oncology</i> , 2009 , 91, 386-92	5.3	318

167	The Potential of Radiomic-Based Phenotyping in Precision Medicine: A Review. <i>JAMA Oncology</i> , 2016 , 2, 1636-1642	13.4	312
166	Radiomic feature clusters and prognostic signatures specific for Lung and Head & Neck cancer. <i>Scientific Reports</i> , 2015 , 5, 11044	4.9	292
165	Stability of FDG-PET Radiomics features: an integrated analysis of test-retest and inter-observer variability. <i>Acta Oncologica</i> , 2013 , 52, 1391-7	3.2	284
164	Predicting outcomes in radiation oncology--multifactorial decision support systems. <i>Nature Reviews Clinical Oncology</i> , 2013 , 10, 27-40	19.4	270
163	The effect of SUV discretization in quantitative FDG-PET Radiomics: the need for standardized methodology in tumor texture analysis. <i>Scientific Reports</i> , 2015 , 5, 11075	4.9	246
162	Radiomics strategies for risk assessment of tumour failure in head-and-neck cancer. <i>Scientific Reports</i> , 2017 , 7, 10117	4.9	245
161	Radiomic Machine-Learning Classifiers for Prognostic Biomarkers of Head and Neck Cancer. <i>Frontiers in Oncology</i> , 2015 , 5, 272	5.3	225
160	Deep learning for lung cancer prognostication: A retrospective multi-cohort radiomics study. <i>PLoS Medicine</i> , 2018 , 15, e1002711	11.6	218
159	Exploratory Study to Identify Radiomics Classifiers for Lung Cancer Histology. <i>Frontiers in Oncology</i> , 2016 , 6, 71	5.3	211
158	Somatic Mutations Drive Distinct Imaging Phenotypes in Lung Cancer. <i>Cancer Research</i> , 2017 , 77, 3922-3930	13.0	200
157	Predicting response to cancer immunotherapy using noninvasive radiomic biomarkers. <i>Annals of Oncology</i> , 2019 , 30, 998-1004	10.3	198
156	Radiomic phenotype features predict pathological response in non-small cell lung cancer. <i>Radiotherapy and Oncology</i> , 2016 , 119, 480-6	5.3	198
155	Deep Learning Predicts Lung Cancer Treatment Response from Serial Medical Imaging. <i>Clinical Cancer Research</i> , 2019 , 25, 3266-3275	12.9	171
154	Quantitative computed tomographic descriptors associate tumor shape complexity and intratumor heterogeneity with prognosis in lung adenocarcinoma. <i>PLoS ONE</i> , 2015 , 10, e0118261	3.7	167
153	Disparity between in vivo EGFR expression and 89Zr-labeled cetuximab uptake assessed with PET. <i>Journal of Nuclear Medicine</i> , 2009 , 50, 123-31	8.9	167
152	Defining the biological basis of radiomic phenotypes in lung cancer. <i>ELife</i> , 2017 , 6,	8.9	158
151	External validation of a prognostic CT-based radiomic signature in oropharyngeal squamous cell carcinoma. <i>Acta Oncologica</i> , 2015 , 54, 1423-9	3.2	144
150	Deep Learning for Fully-Automated Localization and Segmentation of Rectal Cancer on Multiparametric MR. <i>Scientific Reports</i> , 2017 , 7, 5301	4.9	141

149	Vulnerabilities of radiomic signature development: The need for safeguards. <i>Radiotherapy and Oncology</i> , 2019 , 130, 2-9	5.3	137
148	Defining a Radiomic Response Phenotype: A Pilot Study using targeted therapy in NSCLC. <i>Scientific Reports</i> , 2016 , 6, 33860	4.9	128
147	PharmacGx: an R package for analysis of large pharmacogenomic datasets. <i>Bioinformatics</i> , 2016 , 32, 1244-6	7.2	127
146	Volumetric CT-based segmentation of NSCLC using 3D-Slicer. <i>Scientific Reports</i> , 2013 , 3, 3529	4.9	120
145	CT-based radiomic analysis of stereotactic body radiation therapy patients with lung cancer. <i>Radiotherapy and Oncology</i> , 2016 , 120, 258-66	5.3	117
144	Artificial intelligence in radiation oncology: A specialty-wide disruptive transformation?. <i>Radiotherapy and Oncology</i> , 2018 , 129, 421-426	5.3	114
143	Automated Delineation of Lung Tumors from CT Images Using a Single Click Ensemble Segmentation Approach. <i>Pattern Recognition</i> , 2013 , 46, 692-702	7.7	112
142	Repeatability of Multiparametric Prostate MRI Radiomics Features. <i>Scientific Reports</i> , 2019 , 9, 9441	4.9	104
141	Associations Between Somatic Mutations and Metabolic Imaging Phenotypes in Non-Small Cell Lung Cancer. <i>Journal of Nuclear Medicine</i> , 2017 , 58, 569-576	8.9	104
140	Radiomic-Based Pathological Response Prediction from Primary Tumors and Lymph Nodes in NSCLC. <i>Journal of Thoracic Oncology</i> , 2017 , 12, 467-476	8.9	101
139	Identification of residual metabolic-active areas within NSCLC tumours using a pre-radiotherapy FDG-PET-CT scan: a prospective validation. <i>Lung Cancer</i> , 2012 , 75, 73-6	5.9	89
138	PET imaging of hypoxia using [18F]HX4: a phase I trial. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2010 , 37, 1663-8	8.8	87
137	Transparency and reproducibility in artificial intelligence. <i>Nature</i> , 2020 , 586, E14-E16	50.4	85
136	Cardiac Radiation Dose, Cardiac Disease, and Mortality in Patients With Lung Cancer. <i>Journal of the American College of Cardiology</i> , 2019 , 73, 2976-2987	15.1	81
135	A DSA-based method using contrast-motion estimation for the assessment of the intra-aneurysmal flow changes induced by flow-diverter stents. <i>American Journal of Neuroradiology</i> , 2013 , 34, 808-15	4.4	79
134	A semiautomatic CT-based ensemble segmentation of lung tumors: comparison with oncologists' delineations and with the surgical specimen. <i>Radiotherapy and Oncology</i> , 2012 , 105, 167-73	5.3	73
133	Current Status and Future Perspectives on Neoadjuvant Therapy in Lung Cancer. <i>Journal of Thoracic Oncology</i> , 2018 , 13, 1818-1831	8.9	73
132	Stability of 18F-deoxyglucose uptake locations within tumor during radiotherapy for NSCLC: a prospective study. <i>International Journal of Radiation Oncology Biology Physics</i> , 2008 , 71, 1402-7	4	69

131	Quantitative imaging biomarkers for risk stratification of patients with recurrent glioblastoma treated with bevacizumab. <i>Neuro-Oncology</i> , 2017 , 19, 1688-1697	1	68
130	Fully automatic GBM segmentation in the TCGA-GBM dataset: Prognosis and correlation with VASARI features. <i>Scientific Reports</i> , 2015 , 5, 16822	4.9	67
129	Accurate prediction of pathological rectal tumor response after two weeks of preoperative radiochemotherapy using (18)F-fluorodeoxyglucose-positron emission tomography-computed tomography imaging. <i>International Journal of Radiation Oncology Biology Physics</i> , 2010 , 77, 392-9	4	67
128	Associations of Radiomic Data Extracted from Static and Respiratory-Gated CT Scans with Disease Recurrence in Lung Cancer Patients Treated with SBRT. <i>PLoS ONE</i> , 2017 , 12, e0169172	3.7	66
127	Data Analysis Strategies in Medical Imaging. <i>Clinical Cancer Research</i> , 2018 , 24, 3492-3499	12.9	66
126	Radiographic prediction of meningioma grade by semantic and radiomic features. <i>PLoS ONE</i> , 2017 , 12, e0187908	3.7	66
125	Quantitative imaging test approval and biomarker qualification: interrelated but distinct activities. <i>Radiology</i> , 2011 , 259, 875-84	20.5	65
124	Enhancing reproducibility in cancer drug screening: how do we move forward?. <i>Cancer Research</i> , 2014 , 74, 4016-23	10.1	64
123	Quantitative imaging of cancer in the postgenomic era: Radio(geno)mics, deep learning, and habitats. <i>Cancer</i> , 2018 , 124, 4633-4649	6.4	64
122	Somatic mutations associated with MRI-derived volumetric features in glioblastoma. <i>Neuroradiology</i> , 2015 , 57, 1227-37	3.2	63
121	The ESTRO Breur Lecture 2009. From population to voxel-based radiotherapy: exploiting intra-tumour and intra-organ heterogeneity for advanced treatment of non-small cell lung cancer. <i>Radiotherapy and Oncology</i> , 2010 , 96, 145-52	5.3	63
120	Peritumoral radiomics features predict distant metastasis in locally advanced NSCLC. <i>PLoS ONE</i> , 2018 , 13, e0206108	3.7	58
119	Associations between radiologist-defined semantic and automatically computed radiomic features in non-small cell lung cancer. <i>Scientific Reports</i> , 2017 , 7, 3519	4.9	55
118	Comparison of texture features derived from static and respiratory-gated PET images in non-small cell lung cancer. <i>PLoS ONE</i> , 2014 , 9, e115510	3.7	55
117	Artificial intelligence in radiation oncology. <i>Nature Reviews Clinical Oncology</i> , 2020 , 17, 771-781	19.4	54
116	Development and validation of a prognostic model using blood biomarker information for prediction of survival of non-small-cell lung cancer patients treated with combined chemotherapy and radiation or radiotherapy alone (NCT00181519, NCT00573040, and NCT00572325). <i>International Journal of Radiation Oncology Biology Physics</i> , 2011 , 81, 360-8	4	53
115	Comparison and validation of genomic predictors for anticancer drug sensitivity. <i>Journal of the American Medical Informatics Association: JAMIA</i> , 2013 , 20, 597-602	8.6	52
114	Outcomes by tumor histology and KRAS mutation status after lung stereotactic body radiation therapy for early-stage non-small-cell lung cancer. <i>Clinical Lung Cancer</i> , 2015 , 16, 24-32	4.9	50

113	Externally validated HPV-based prognostic nomogram for oropharyngeal carcinoma patients yields more accurate predictions than TNM staging. <i>Radiotherapy and Oncology</i> , 2014 , 113, 324-30	5.3	50
112	Increased (18)F-deoxyglucose uptake in the lung during the first weeks of radiotherapy is correlated with subsequent Radiation-Induced Lung Toxicity (RILT): a prospective pilot study. <i>Radiotherapy and Oncology</i> , 2009 , 91, 415-20	5.3	49
111	Revisiting inconsistency in large pharmacogenomic studies. <i>F1000Research</i> , 2016 , 5, 2333	3.6	49
110	Imaging-genomics reveals driving pathways of MRI derived volumetric tumor phenotype features in Glioblastoma. <i>BMC Cancer</i> , 2016 , 16, 611	4.8	46
109	Metabolic control probability in tumour subvolumes or how to guide tumour dose redistribution in non-small cell lung cancer (NSCLC): an exploratory clinical study. <i>Radiotherapy and Oncology</i> , 2009 , 91, 393-8	5.3	46
108	Artificial intelligence for global health. <i>Science</i> , 2019 , 366, 955-956	33.3	45
107	Quantification of arterial flow using digital subtraction angiography. <i>Medical Physics</i> , 2012 , 39, 6264-75	4.4	43
106	Deep Learning to Assess Long-term Mortality From Chest Radiographs. <i>JAMA Network Open</i> , 2019 , 2, e197416	10.4	42
105	Radiomics versus Visual and Histogram-based Assessment to Identify Atheromatous Lesions at Coronary CT Angiography: An ex Vivo Study. <i>Radiology</i> , 2019 , 293, 89-96	20.5	40
104	Use of Crowd Innovation to Develop an Artificial Intelligence-Based Solution for Radiation Therapy Targeting. <i>JAMA Oncology</i> , 2019 , 5, 654-661	13.4	38
103	Prognostic value of metabolic metrics extracted from baseline positron emission tomography images in non-small cell lung cancer. <i>Acta Oncologica</i> , 2013 , 52, 1398-404	3.2	37
102	Relationship between the Temporal Changes in Positron-Emission-Tomography-Imaging-Based Textural Features and Pathologic Response and Survival in Esophageal Cancer Patients. <i>Frontiers in Oncology</i> , 2016 , 6, 72	5.3	37
101	Data Science in Radiology: A Path Forward. <i>Clinical Cancer Research</i> , 2018 , 24, 532-534	12.9	36
100	Revisiting inconsistency in large pharmacogenomic studies. <i>F1000Research</i> , 2016 , 5, 2333	3.6	35
99	System identification theory in pharmacokinetic modeling of dynamic contrast-enhanced MRI: influence of contrast injection. <i>Magnetic Resonance in Medicine</i> , 2008 , 59, 1111-9	4.4	34
98	Radiomics features of the primary tumor fail to improve prediction of overall survival in large cohorts of CT- and PET-imaged head and neck cancer patients. <i>PLoS ONE</i> , 2019 , 14, e0222509	3.7	33
97	Radiomic Biomarkers to Refine Risk Models for Distant Metastasis in HPV-related Oropharyngeal Carcinoma. <i>International Journal of Radiation Oncology Biology Physics</i> , 2018 , 102, 1107-1116	4	30
96	Use of registration-based contour propagation in texture analysis for esophageal cancer pathologic response prediction. <i>Physics in Medicine and Biology</i> , 2016 , 61, 906-22	3.8	30

95	Binding of cetuximab to the EGFRvIII deletion mutant and its biological consequences in malignant glioma cells. <i>Radiotherapy and Oncology</i> , 2009 , 92, 393-8	5.3	30
94	PET imaging of zirconium-89 labelled cetuximab: A phase I trial in patients with head and neck and lung cancer. <i>Radiotherapy and Oncology</i> , 2017 , 122, 267-273	5.3	29
93	Impact of experimental design on PET radiomics in predicting somatic mutation status. <i>European Journal of Radiology</i> , 2017 , 97, 8-15	4.7	29
92	Quantification of internal carotid artery flow with digital subtraction angiography: validation of an optical flow approach with Doppler ultrasound. <i>American Journal of Neuroradiology</i> , 2014 , 35, 156-63	4.4	29
91	Tumor delineation based on time-activity curve differences assessed with dynamic fluorodeoxyglucose positron emission tomography-computed tomography in rectal cancer patients. <i>International Journal of Radiation Oncology Biology Physics</i> , 2009 , 73, 456-65	4	28
90	diXa: a data infrastructure for chemical safety assessment. <i>Bioinformatics</i> , 2015 , 31, 1505-7	7.2	27
89	Comparison between perfusion computed tomography and dynamic contrast-enhanced magnetic resonance imaging in rectal cancer. <i>International Journal of Radiation Oncology Biology Physics</i> , 2010 , 77, 400-8	4	27
88	Deep convolutional neural networks to predict cardiovascular risk from computed tomography. <i>Nature Communications</i> , 2021 , 12, 715	17.4	27
87	Application of the 3D slicer chest imaging platform segmentation algorithm for large lung nodule delineation. <i>PLoS ONE</i> , 2017 , 12, e0178944	3.7	26
86	Reliability of pharmacokinetic parameters: small vs. medium-sized contrast agents. <i>Magnetic Resonance in Medicine</i> , 2009 , 62, 779-87	4.4	26
85	Tumor perfusion increases during hypofractionated short-course radiotherapy in rectal cancer: sequential perfusion-CT findings. <i>Radiotherapy and Oncology</i> , 2010 , 94, 156-60	5.3	25
84	Assessment of pharmacogenomic agreement. <i>F1000Research</i> , 2016 , 5, 825	3.6	25
83	Development and evaluation of a cetuximab-based imaging probe to target EGFR and EGFRvIII. <i>Radiotherapy and Oncology</i> , 2007 , 83, 326-32	5.3	24
82	Association of Left Anterior Descending Coronary Artery Radiation Dose With Major Adverse Cardiac Events and Mortality in Patients With Non-Small Cell Lung Cancer. <i>JAMA Oncology</i> , 2021 , 7, 206-219	13.4	24
81	Radiomics performs comparable to morphologic assessment by expert radiologists for prediction of response to neoadjuvant chemoradiotherapy on baseline staging MRI in rectal cancer. <i>Abdominal Radiology</i> , 2020 , 45, 632-643	3	23
80	The precision of pharmacokinetic parameters in dynamic contrast-enhanced magnetic resonance imaging: the effect of sampling frequency and duration. <i>Physics in Medicine and Biology</i> , 2011 , 56, 5665-78	3.8	22
79	Handcrafted versus deep learning radiomics for prediction of cancer therapy response. <i>The Lancet Digital Health</i> , 2019 , 1, e106-e107	14.4	20
78	Technical Challenges in the Clinical Application of Radiomics. <i>JCO Clinical Cancer Informatics</i> , 2017 , 1, 1-8	5.2	20

77	Distributed radiomics as a signature validation study using the Personal Health Train infrastructure. <i>Scientific Data</i> , 2019 , 6, 218	8.2	20
76	Feasibility study of needle placement in percutaneous vertebroplasty: cone-beam computed tomography guidance versus conventional fluoroscopy. <i>CardioVascular and Interventional Radiology</i> , 2013 , 36, 1120-6	2.7	19
75	Deep Learning Using Chest Radiographs to Identify High-Risk Smokers for Lung Cancer Screening Computed Tomography: Development and Validation of a Prediction Model. <i>Annals of Internal Medicine</i> , 2020 , 173, 704-713	8	18
74	Artificial intelligence for clinical oncology. <i>Cancer Cell</i> , 2021 , 39, 916-927	24.3	17
73	Radiologic-pathologic correlation of response to chemoradiation in resectable locally advanced NSCLC. <i>Lung Cancer</i> , 2016 , 102, 1-8	5.9	16
72	Prediction of residual metabolic activity after treatment in NSCLC patients. <i>Acta Oncologica</i> , 2010 , 49, 1033-9	3.2	15
71	Importance of collection in gene set enrichment analysis of drug response in cancer cell lines. <i>Scientific Reports</i> , 2014 , 4, 4092	4.9	14
70	Safikhani et al. reply. <i>Nature</i> , 2016 , 540, E2-E4	50.4	14
69	Evaluation of database-derived pathway development for enabling biomarker discovery for hepatotoxicity. <i>Biomarkers in Medicine</i> , 2014 , 8, 185-200	2.3	12
68	Characterization of Conserved Toxicogenomic Responses in Chemically Exposed Hepatocytes across Species and Platforms. <i>Environmental Health Perspectives</i> , 2016 , 124, 313-20	8.4	12
67	Semi-automated pulmonary nodule interval segmentation using the NLST data. <i>Medical Physics</i> , 2018 , 45, 1093-1107	4.4	11
66	Clinical variables and magnetic resonance imaging-based radiomics predict human papillomavirus status of oropharyngeal cancer. <i>Head and Neck</i> , 2021 , 43, 485-495	4.2	11
65	Radiomics of Coronary Artery Calcium in the Framingham Heart Study. <i>Radiology: Cardiothoracic Imaging</i> , 2020 , 2, e190119	8.3	10
64	FAIR-compliant clinical, radiomics and DICOM metadata of RIDER, interobserver, Lung1 and head-Neck1 TCIA collections. <i>Medical Physics</i> , 2020 , 47, 5931-5940	4.4	9
63	Sensitivity study of voxel-based PET image comparison to image registration algorithms. <i>Medical Physics</i> , 2014 , 41, 111714	4.4	9
62	Repeated positron emission tomography-computed tomography and perfusion-computed tomography imaging in rectal cancer: fluorodeoxyglucose uptake corresponds with tumor perfusion. <i>International Journal of Radiation Oncology Biology Physics</i> , 2012 , 82, 849-55	4	9
61	Approaching autonomy in medical artificial intelligence. <i>The Lancet Digital Health</i> , 2020 , 2, e447-e449	14.4	9
60	Safikhani et al. reply. <i>Nature</i> , 2016 , 540, E6-E8	50.4	9

59	Density and morphology of coronary artery calcium for the prediction of cardiovascular events: insights from the Framingham Heart Study. <i>European Radiology</i> , 2019 , 29, 6140-6148	8	8
58	Histopathological Image QTL Discovery of Immune Infiltration Variants. <i>IScience</i> , 2018 , 5, 80-89	6.1	8
57	MO-DE-207B-08: Radiomic CT Features Complement Semantic Annotations to Predict EGFR Mutations in Lung Adenocarcinomas. <i>Medical Physics</i> , 2016 , 43, 3706-3706	4.4	8
56	Radiomic biomarkers for the prediction of immunotherapy outcome in patients with metastatic non-small cell lung cancer.. <i>Journal of Clinical Oncology</i> , 2017 , 35, e14520-e14520	2.2	8
55	Safikhani et al. reply. <i>Nature</i> , 2016 , 540, E11-E12	50.4	8
54	Deep learning classification of lung cancer histology using CT images. <i>Scientific Reports</i> , 2021 , 11, 5471	4.9	8
53	Clinical Outcomes After Lung Stereotactic Body Radiation Therapy in Patients With or Without a Prior Lung Resection. <i>American Journal of Clinical Oncology: Cancer Clinical Trials</i> , 2018 , 41, 695-701	2.7	6
52	Effectiveness of surgery and individualized high-dose hyperfractionated accelerated radiotherapy on survival in clinical stage I non-small cell lung cancer. A propensity score matched analysis. <i>Radiotherapy and Oncology</i> , 2010 , 97, 413-7	5.3	6
51	Using deep-learning radiomics to predict lung cancer histology.. <i>Journal of Clinical Oncology</i> , 2018 , 36, 8545-8545	2.2	6
50	Changes in Length and Complexity of Clinical Practice Guidelines in Oncology, 1996-2019. <i>JAMA Network Open</i> , 2020 , 3, e200841	10.4	5
49	Lymph node volume predicts survival but not nodal clearance in Stage IIIA-IIIIB NSCLC. <i>PLoS ONE</i> , 2017 , 12, e0174268	3.7	5
48	Revisiting inconsistency in large pharmacogenomic studies. <i>F1000Research</i> , 5 , 2333	3.6	5
47	Author response: Defining the biological basis of radiomic phenotypes in lung cancer 2017 ,		5
46	Deep Learning to Estimate Biological Age From Chest Radiographs. <i>JACC: Cardiovascular Imaging</i> , 2021 , 14, 2226-2236	8.4	5
45	Statin Use, Heart Radiation Dose, and Survival in Locally Advanced Lung Cancer. <i>Practical Radiation Oncology</i> , 2021 , 11, e459-e467	2.8	5
44	Revisiting inconsistency in large pharmacogenomic studies		4
43	NCI Imaging Data Commons. <i>Cancer Research</i> , 2021 , 81, 4188-4193	10.1	4
42	Improved outcome prediction of oropharyngeal cancer by combining clinical and MRI features in machine learning models. <i>European Journal of Radiology</i> , 2021 , 139, 109701	4.7	4

41	Radiomic-Based Phenotyping of Tumor Core and Rim to Predict Survival in Nonsmall Cell Lung Cancer. <i>International Journal of Radiation Oncology Biology Physics</i> , 2017 , 99, S84	4	3
40	Artificial intelligence-derived imaging biomarkers to improve population health. <i>The Lancet Digital Health</i> , 2020 , 2, e154-e155	14.4	3
39	The impact of quantitative CT-based tumor volumetric features on the outcomes of patients with limited stage small cell lung cancer. <i>Radiation Oncology</i> , 2020 , 15, 14	4.2	3
38	SU-D-207B-02: Early Grade Classification in Meningioma Patients Combining Radiomics and Semantics Data. <i>Medical Physics</i> , 2016 , 43, 3348-3349	4.4	3
37	Hypoxia-Related Radiomics and Immunotherapy Response: A Multicohort Study of Non-Small Cell Lung Cancer. <i>JNCI Cancer Spectrum</i> , 2021 , 5, pkab048	4.6	3
36	Left Coronary Artery Dose Exposure Predicts Major Adverse Cardiac Events in Coronary Heart Disease Negative Lung Cancer Patients. <i>International Journal of Radiation Oncology Biology Physics</i> , 2019 , 105, S44-S45	4	2
35	Inter-scan and inter-observer tumour volume delineation variability on cone beam computed tomography in patients treated with stereotactic body radiation therapy for early-stage non-small cell lung cancer. <i>Journal of Medical Imaging and Radiation Oncology</i> , 2017 , 61, 93-98	1.7	2
34	Assessing the Effects of Software Platforms on Volumetric Segmentation of Glioblastoma 2016 , 1, 64-72		2
33	DICOM re-encoding of volumetrically annotated Lung Imaging Database Consortium (LIDC) nodules. <i>Medical Physics</i> , 2020 , 47, 5953-5965	4.4	2
32	Prognostic Value of Deep Learning-Mediated Treatment Monitoring in Lung Cancer Patients Receiving Immunotherapy. <i>Frontiers in Oncology</i> , 2021 , 11, 609054	5.3	2
31	Deep-learning system to improve the quality and efficiency of volumetric heart segmentation for breast cancer. <i>Npj Digital Medicine</i> , 2021 , 4, 43	15.7	2
30	Outcomes by EGFR, KRAS and ALK Genotype After Combined Modality Therapy for Locally Advanced Non-Small Cell Lung Cancer. <i>International Journal of Radiation Oncology Biology Physics</i> , 2016 , 96, S156	4	2
29	Outcomes by , , and Genotype After Combined Modality Therapy for Locally Advanced Non-Small-Cell Lung Cancer.. <i>JCO Precision Oncology</i> , 2018 , 2, 1-18	3.6	2
28	Mean Heart Dose Is an Inadequate Surrogate for Left Anterior Descending Coronary Artery Dose and the Risk of Major Adverse Cardiac Events in Lung Cancer Radiation Therapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2021 , 110, 1473-1479	4	2
27	Radiologists can visually predict mortality risk based on the gestalt of chest radiographs comparable to a deep learning network. <i>Scientific Reports</i> , 2021 , 11, 19586	4.9	2
26	TU-A-12A-10: Robust Radiomics Feature Quantification Using Semiautomatic Volumetric Segmentation. <i>Medical Physics</i> , 2014 , 41, 452-452	4.4	1
25	SU-E-J-246: CT-Based Volumetric Features Are Associated with Somatic Mutations in Lung Cancer. <i>Medical Physics</i> , 2015 , 42, 3322-3323	4.4	1
24	TU-D-207B-06: Pathological Response Prediction by Radiomic Data From Primary and Lymph Nodes in NSCLC. <i>Medical Physics</i> , 2016 , 43, 3751-3751	4.4	1

23	TU-D-207B-07: Radiomic Response Assessment for Recurrent Glioblastoma Treated with Bevacizumab in the BRAIN Trial. <i>Medical Physics</i> , 2016 , 43, 3751-3752	4.4	1
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