

Andre Dekker

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

217 papers	15,020 citations	52 h-index	121 g-index
281 ext. papers	19,443 ext. citations	2.8 avg, IF	6.2 L-index

#	Paper	IF	Citations
217	Decoding tumour phenotype by noninvasive imaging using a quantitative radiomics approach. <i>Nature Communications</i> , 2014 , 5, 4006	17.4	2330
216	Radiomics: extracting more information from medical images using advanced feature analysis. <i>European Journal of Cancer</i> , 2012 , 48, 441-6	7.5	2278
215	Radiomics: the bridge between medical imaging and personalized medicine. <i>Nature Reviews Clinical Oncology</i> , 2017 , 14, 749-762	19.4	1576
214	Radiomics: the process and the challenges. <i>Magnetic Resonance Imaging</i> , 2012 , 30, 1234-48	3.3	1156
213	Three-dimensional photoacoustic imaging of blood vessels in tissue. <i>Optics Letters</i> , 1998 , 23, 648-50	3	350
212	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
211	Repeatability and Reproducibility of Radiomic Features: A Systematic Review. <i>International Journal of Radiation Oncology Biology Physics</i> , 2018 , 102, 1143-1158	4	318
210	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
209	Predicting outcomes in radiation oncology--multifactorial decision support systems. <i>Nature Reviews Clinical Oncology</i> , 2013 , 10, 27-40	19.4	270
208	PET-CT-based auto-contouring in non-small-cell lung cancer correlates with pathology and reduces interobserver variability in the delineation of the primary tumor and involved nodal volumes. <i>International Journal of Radiation Oncology Biology Physics</i> , 2007 , 68, 771-8	4	239
207	Characterisation and classification of oligometastatic disease: a European Society for Radiotherapy and Oncology and European Organisation for Research and Treatment of Cancer consensus recommendation. <i>Lancet Oncology</i> , 2020 , 21, e18-e28	21.7	232
206	Epicardial left ventricular lead placement for cardiac resynchronization therapy: optimal pace site selection with pressure-volume loops. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2004 , 127, 1641-7	1.5	171
205	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
204	Clinical evaluation of atlas and deep learning based automatic contouring for lung cancer. <i>Radiotherapy and Oncology</i> , 2018 , 126, 312-317	5.3	160
203	'Rapid Learning health care in oncology' - an approach towards decision support systems enabling customised radiotherapy'. <i>Radiotherapy and Oncology</i> , 2013 , 109, 159-64	5.3	147
202	Accurate automatic delineation of heterogeneous functional volumes in positron emission tomography for oncology applications. <i>International Journal of Radiation Oncology Biology Physics</i> , 2010 , 77, 301-8	4	141
201	Vulnerabilities of radiomic signature development: The need for safeguards. <i>Radiotherapy and Oncology</i> , 2019 , 130, 2-9	5.3	137

200	Machine learning algorithms for outcome prediction in (chemo)radiotherapy: An empirical comparison of classifiers. <i>Medical Physics</i> , 2018 , 45, 3449-3459	4.4	123
199	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
198	Distributed learning: Developing a predictive model based on data from multiple hospitals without data leaving the hospital - A real life proof of concept. <i>Radiotherapy and Oncology</i> , 2016 , 121, 459-467	5.3	99
197	Autosegmentation for thoracic radiation treatment planning: A grand challenge at AAPM 2017. <i>Medical Physics</i> , 2018 , 45, 4568-4581	4.4	96
196	Intra-patient variability of tumor volume and tumor motion during conventionally fractionated radiotherapy for locally advanced non-small-cell lung cancer: a prospective clinical study. <i>International Journal of Radiation Oncology Biology Physics</i> , 2006 , 66, 748-53	4	88
195	Time trends in the maximal uptake of FDG on PET scan during thoracic radiotherapy. A prospective study in locally advanced non-small cell lung cancer (NSCLC) patients. <i>Radiotherapy and Oncology</i> , 2007 , 82, 145-52	5.3	85
194	Test-Retest Data for Radiomics Feature Stability Analysis: Generalizable or Study-Specific?. <i>Tomography</i> , 2016 , 2, 361-365	3.1	85
193	Routine individualised patient dosimetry using electronic portal imaging devices. <i>Radiotherapy and Oncology</i> , 2007 , 83, 65-75	5.3	83
192	Increased organ sparing using shape-based treatment plan optimization for intensity modulated radiation therapy of pancreatic adenocarcinoma. <i>Radiotherapy and Oncology</i> , 2012 , 102, 38-44	5.3	82
191	A global calibration model for a-Si EPIDs used for transit dosimetry. <i>Medical Physics</i> , 2007 , 34, 3872-84	4.4	81
190	Decision support systems for personalized and participative radiation oncology. <i>Advanced Drug Delivery Reviews</i> , 2017 , 109, 131-153	18.5	79
189	The next step in patient-specific QA: 3D dose verification of conformal and intensity-modulated RT based on EPID dosimetry and Monte Carlo dose calculations. <i>Radiotherapy and Oncology</i> , 2008 , 86, 86-92	5.3	77
188	Infrastructure and distributed learning methodology for privacy-preserving multi-centric rapid learning health care: euroCAT. <i>Clinical and Translational Radiation Oncology</i> , 2017 , 4, 24-31	4.6	74
187	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
186	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
185	Comparison of Bayesian network and support vector machine models for two-year survival prediction in lung cancer patients treated with radiotherapy. <i>Medical Physics</i> , 2010 , 37, 1401-7	4.4	68
184	Fractal-based radiomic approach to predict complete pathological response after chemo-radiotherapy in rectal cancer. <i>Radiologia Medica</i> , 2018 , 123, 286-295	6.5	68
183	18FDG-PET based radiation planning of mediastinal lymph nodes in limited disease small cell lung cancer changes radiotherapy fields: a planning study. <i>Radiotherapy and Oncology</i> , 2008 , 87, 49-54	5.3	66

182	3D in vivo dosimetry using megavoltage cone-beam CT and EPID dosimetry. <i>International Journal of Radiation Oncology Biology Physics</i> , 2009 , 73, 1580-7	4	64
181	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
180	Creating a data exchange strategy for radiotherapy research: towards federated databases and anonymised public datasets. <i>Radiotherapy and Oncology</i> , 2014 , 113, 303-9	5.3	62
179	Evaluation of nonrigid registration models for interfraction dose accumulation in radiotherapy. <i>Medical Physics</i> , 2009 , 36, 4268-76	4.4	62
178	Radiation dose prescription for non-small-cell lung cancer according to normal tissue dose constraints: an in silico clinical trial. <i>International Journal of Radiation Oncology Biology Physics</i> , 2008 , 71, 1103-10	4	61
177	Developing and Validating a Survival Prediction Model for NSCLC Patients Through Distributed Learning Across 3 Countries. <i>International Journal of Radiation Oncology Biology Physics</i> , 2017 , 99, 344-352	4	60
176	A Monte Carlo based three-dimensional dose reconstruction method derived from portal dose images. <i>Medical Physics</i> , 2006 , 33, 2426-34	4.4	60
175	A prospective study comparing the predictions of doctors versus models for treatment outcome of lung cancer patients: a step toward individualized care and shared decision making. <i>Radiotherapy and Oncology</i> , 2014 , 112, 37-43	5.3	58
174	Magnetic Resonance, Vendor-independent, Intensity Histogram Analysis Predicting Pathologic Complete Response After Radiochemotherapy of Rectal Cancer. <i>International Journal of Radiation Oncology Biology Physics</i> , 2018 , 102, 765-774	4	55
173	[18F]fluorodeoxyglucose uptake patterns in lung before radiotherapy identify areas more susceptible to radiation-induced lung toxicity in non-small-cell lung cancer patients. <i>International Journal of Radiation Oncology Biology Physics</i> , 2011 , 81, 698-705	4	55
172	Tumour delineation and cumulative dose computation in radiotherapy based on deformable registration of respiratory correlated CT images of lung cancer patients. <i>Radiotherapy and Oncology</i> , 2007 , 85, 232-8	5.3	55
171	International data-sharing for radiotherapy research: an open-source based infrastructure for multicentric clinical data mining. <i>Radiotherapy and Oncology</i> , 2014 , 110, 370-374	5.3	54
170	Radiogenomics: the search for genetic predictors of radiotherapy response. <i>Future Oncology</i> , 2014 , 10, 2391-406	3.6	54
169	Individualized radical radiotherapy of non-small-cell lung cancer based on normal tissue dose constraints: a feasibility study. <i>International Journal of Radiation Oncology Biology Physics</i> , 2008 , 71, 1394-401	4	53
168	Phased attenuation correction in respiration correlated computed tomography/positron emitted tomography. <i>Medical Physics</i> , 2006 , 33, 1840-7	4.4	53
167	Suction due to left ventricular assist: implications for device control and management. <i>Artificial Organs</i> , 2007 , 31, 542-9	2.6	52
166	Benefits of a clinical data warehouse with data mining tools to collect data for a radiotherapy trial. <i>Radiotherapy and Oncology</i> , 2013 , 108, 174-9	5.3	51
165	Miniature intracardiac assist device provides more effective cardiac unloading and circulatory support during severe left heart failure than intraaortic balloon pumping. <i>Chest</i> , 2004 , 126, 896-902	5.3	50

164	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
163	Modern clinical research: How rapid learning health care and cohort multiple randomised clinical trials complement traditional evidence based medicine. <i>Acta Oncologica</i> , 2015 , 54, 1289-300	3.2	47
162	Distributed learning on 20 000+ lung cancer patients - The Personal Health Train. <i>Radiotherapy and Oncology</i> , 2020 , 144, 189-200	5.3	47
161	Development and evaluation of an online three-level proton vs photon decision support prototype for head and neck cancer - Comparison of dose, toxicity and cost-effectiveness. <i>Radiotherapy and Oncology</i> , 2016 , 118, 281-5	5.3	46
160	Nomogram predicting response after chemoradiotherapy in rectal cancer using sequential PETCT imaging: a multicentric prospective study with external validation. <i>Radiotherapy and Oncology</i> , 2014 , 113, 215-22	5.3	46
159	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
158	Machine learning and modeling: Data, validation, communication challenges. <i>Medical Physics</i> , 2018 , 45, e834-e840	4.4	46
157	Intra-voxel heterogeneity influences the dose prescription for dose-painting with radiotherapy: a modelling study. <i>Physics in Medicine and Biology</i> , 2009 , 54, 2179-96	3.8	45
156	The integration of PET-CT scans from different hospitals into radiotherapy treatment planning. <i>Radiotherapy and Oncology</i> , 2008 , 87, 142-6	5.3	40
155	Respiratory-gated CT as a tool for the simulation of breathing artifacts in PET and PET/CT. <i>Medical Physics</i> , 2008 , 35, 576-85	4.4	39
154	Cardiac comorbidity is an independent risk factor for radiation-induced lung toxicity in lung cancer patients. <i>Radiotherapy and Oncology</i> , 2013 , 109, 100-6	5.3	38
153	Treatment verification in the presence of inhomogeneities using EPID-based three-dimensional dose reconstruction. <i>Medical Physics</i> , 2007 , 34, 2816-26	4.4	38
152	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
151	A ventricular-vascular coupling model in presence of aortic stenosis. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2005 , 288, H1874-84	5.2	37
150	Individualised isotoxic accelerated radiotherapy and chemotherapy are associated with improved long-term survival of patients with stage III NSCLC: a prospective population-based study. <i>Radiotherapy and Oncology</i> , 2012 , 102, 228-33	5.3	35
149	Learning from scanners: Bias reduction and feature correction in radiomics. <i>Clinical and Translational Radiation Oncology</i> , 2019 , 19, 33-38	4.6	32
148	Rapid learning in practice: a lung cancer survival decision support system in routine patient care data. <i>Radiotherapy and Oncology</i> , 2014 , 113, 47-53	5.3	32
147	An umbrella protocol for standardized data collection (SDC) in rectal cancer: a prospective uniform naming and procedure convention to support personalized medicine. <i>Radiotherapy and Oncology</i> , 2014 , 112, 59-62	5.3	31

146	Artificial intelligence-based clinical decision support in modern medical physics: Selection, acceptance, commissioning, and quality assurance. <i>Medical Physics</i> , 2020 , 47, e228-e235	4.4	30
145	3D dose delivery verification using repeated cone-beam imaging and EPID dosimetry for stereotactic body radiotherapy of non-small cell lung cancer. <i>Radiotherapy and Oncology</i> , 2010 , 94, 188-94	5.3	30
144	In vivo dosimetry using a linear Mosfet-array dosimeter to determine the urethra dose in 125I permanent prostate implants. <i>International Journal of Radiation Oncology Biology Physics</i> , 2009 , 73, 314-41	4.1	30
143	Transition from a simple to a more advanced dose calculation algorithm for radiotherapy of non-small cell lung cancer (NSCLC): implications for clinical implementation in an individualized dose-escalation protocol. <i>Radiotherapy and Oncology</i> , 2008 , 88, 326-34	5.3	29
142	Distributed Analytics on Sensitive Medical Data: The Personal Health Train. <i>Data Intelligence</i> , 2020 , 2, 96-107	3	29
141	The radiation oncology ontology (ROO): Publishing linked data in radiation oncology using semantic web and ontology techniques. <i>Medical Physics</i> , 2018 , 45, e854-e862	4.4	29
140	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
139	Robot-assisted epicardial ablation of the pulmonary veins: is a completed isolation necessary?. <i>European Heart Journal</i> , 2005 , 26, 1321-6	9.5	28
138	Comparative evaluation of autocontouring in clinical practice: A practical method using the Turing test. <i>Medical Physics</i> , 2018 , 45, 5105-5115	4.4	28
137	Stereotactic Radiosurgery in the Management of Patients With Brain Metastases of Non-Small Cell Lung Cancer: Indications, Decision Tools and Future Directions. <i>Frontiers in Oncology</i> , 2018 , 8, 154	5.3	26
136	Dyspnea evolution after high-dose radiotherapy in patients with non-small cell lung cancer. <i>Radiotherapy and Oncology</i> , 2009 , 91, 353-9	5.3	26
135	Calibration of megavoltage cone-beam CT for radiotherapy dose calculations: correction of cupping artifacts and conversion of CT numbers to electron density. <i>Medical Physics</i> , 2008 , 35, 849-65	4.4	26
134	Standardized data collection to build prediction models in oncology: a prototype for rectal cancer. <i>Future Oncology</i> , 2016 , 12, 119-36	3.6	25
133	Time trends in nodal volumes and motion during radiotherapy for patients with stage III non-small-cell lung cancer. <i>International Journal of Radiation Oncology Biology Physics</i> , 2008 , 71, 139-44	4	24
132	An "in silico" clinical trial comparing free breathing, slow and respiration correlated computed tomography in lung cancer patients. <i>Radiotherapy and Oncology</i> , 2006 , 81, 73-80	5.3	24
131	Validation of three deformable image registration algorithms for the thorax. <i>Journal of Applied Clinical Medical Physics</i> , 2013 , 14, 3834	2.3	23
130	A prediction model for early death in non-small cell lung cancer patients following curative-intent chemoradiotherapy. <i>Acta Oncologica</i> , 2018 , 57, 226-230	3.2	21
129	Distributed radiomics as a signature validation study using the Personal Health Train infrastructure. <i>Scientific Data</i> , 2019 , 6, 218	8.2	20

128	Intra-aortic balloon pumping in acute mitral regurgitation reduces aortic impedance and regurgitant fraction. <i>Shock</i> , 2003 , 19, 334-8	3.4	20
127	Towards a modular decision support system for radiomics: A case study on rectal cancer. <i>Artificial Intelligence in Medicine</i> , 2019 , 96, 145-153	7.4	20
126	Technical Note: Ontology-guided radiomics analysis workflow (O-RAW). <i>Medical Physics</i> , 2019 , 46, 5677-5684	5.4	19
125	An Approach Toward Automatic Classification of Tumor Histopathology of Non-Small Cell Lung Cancer Based on Radiomic Features. <i>Tomography</i> , 2016 , 2, 374-377	3.1	19
124	Big Data in radiation therapy: challenges and opportunities. <i>British Journal of Radiology</i> , 2017 , 90, 20160689	5.4	18
123	Machine learning helps identifying volume-confounding effects in radiomics. <i>Physica Medica</i> , 2020 , 71, 24-30	2.7	18
122	Efficacy of a new intraaortic propeller pump vs the intraaortic balloon pump: an animal study. <i>Chest</i> , 2003 , 123, 2089-95	5.3	18
121	The enabler right ventricular circulatory support system for beating heart coronary artery bypass graft surgery. <i>Annals of Thoracic Surgery</i> , 1999 , 68, 1558-61	2.7	18
120	Dose recalculation in megavoltage cone-beam CT for treatment evaluation: removal of cupping and truncation artefacts in scans of the thorax and abdomen. <i>Radiotherapy and Oncology</i> , 2010 , 94, 359-66	5.3	17
119	Timing to achieve the highest rate of pCR after preoperative radiochemotherapy in rectal cancer: a pooled analysis of 3085 patients from 7 randomized trials. <i>Radiotherapy and Oncology</i> , 2021 , 154, 154-160	5.3	17
118	Stability of radiomic features of apparent diffusion coefficient (ADC) maps for locally advanced rectal cancer in response to image pre-processing. <i>Physica Medica</i> , 2019 , 61, 44-51	2.7	16
117	External validation of a prognostic model incorporating quantitative PET image features in oesophageal cancer. <i>Radiotherapy and Oncology</i> , 2019 , 133, 205-212	5.3	16
116	Sensitivity of radiomic features to inter-observer variability and image pre-processing in Apparent Diffusion Coefficient (ADC) maps of cervix cancer patients. <i>Radiotherapy and Oncology</i> , 2020 , 143, 88-94	5.3	16
115	Personalized risk prediction for breast cancer pre-screening using artificial intelligence and thermal radiomics. <i>Artificial Intelligence in Medicine</i> , 2020 , 105, 101854	7.4	15
114	Multicenter CT phantoms public dataset for radiomics reproducibility tests. <i>Medical Physics</i> , 2019 , 46, 1512-1518	4.4	15
113	Effects of quantum noise in 4D-CT on deformable image registration and derived ventilation data. <i>Physics in Medicine and Biology</i> , 2013 , 58, 7661-72	3.8	14
112	Right ventricular support for off-pump coronary artery bypass grafting studied with bi-ventricular pressure--volume loops in sheep. <i>European Journal of Cardio-thoracic Surgery</i> , 2001 , 19, 179-84	3	14
111	The Benefits and Challenges of Using Patient Decision Aids to Support Shared Decision Making in Health Care. <i>JCO Clinical Cancer Informatics</i> , 2018 , 2, 1-10	5.2	14

110	Can Atlas-Based Auto-Segmentation Ever Be Perfect? Insights From Extreme Value Theory. <i>IEEE Transactions on Medical Imaging</i> , 2019 , 38, 99-106	11.7	13
109	VATE: VALIDation of high TEchnology based on large database analysis by learning machine. <i>Colorectal Cancer</i> , 2014 , 3, 435-450	0.8	13
108	Informatics methods to enable sharing of quantitative imaging research data. <i>Magnetic Resonance Imaging</i> , 2012 , 30, 1249-56	3.3	13
107	In vivo dosimetry with a linear MOSFET array to evaluate the urethra dose during permanent implant brachytherapy using iodine-125. <i>International Journal of Radiation Oncology Biology Physics</i> , 2009 , 75, 1266-72	4	12
106	Prediction of DVH parameter changes due to setup errors for breast cancer treatment based on 2D portal dosimetry. <i>Medical Physics</i> , 2009 , 36, 83-94	4.4	12
105	Validation of a rectal cancer outcome prediction model with a cohort of Chinese patients. <i>Oncotarget</i> , 2015 , 6, 38327-35	3.3	12
104	Minimum Data Elements for Radiation Oncology: An American Society for Radiation Oncology Consensus Paper. <i>Practical Radiation Oncology</i> , 2019 , 9, 395-401	2.8	11
103	Distributed Learning to Protect Privacy in Multi-centric Clinical Studies. <i>Lecture Notes in Computer Science</i> , 2015 , 65-75	0.9	11
102	Point/counterpoint. GPU technology is the hope for near real-time Monte Carlo dose calculations. <i>Medical Physics</i> , 2015 , 42, 1474-6	4.4	11
101	Can we optimize chemo-radiation and surgery in locally advanced stage III non-small cell lung cancer based on evidence from randomized clinical trials? A hypothesis-generating study. <i>Radiotherapy and Oncology</i> , 2009 , 93, 389-95	5.3	11
100	Physiologic-insensitive left ventricular assist predisposes right-sided circulatory failure: a pilot simulation and validation study. <i>Artificial Organs</i> , 2004 , 28, 933-9	2.6	10
99	The Impact of Clinical Trial Quality Assurance on Outcome in Head and Neck Radiotherapy Treatment. <i>Frontiers in Oncology</i> , 2019 , 9, 792	5.3	9
98	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
97	A method to combine target volume data from 3D and 4D planned thoracic radiotherapy patient cohorts for machine learning applications. <i>Radiotherapy and Oncology</i> , 2018 , 126, 355-361	5.3	9
96	Phased versus midventilation attenuation-corrected respiration-correlated PET for patients with non-small cell lung cancer. <i>Journal of Nuclear Medicine Technology</i> , 2009 , 37, 208-14	1.1	9
95	Minimal invasive epicardial lead implantation: optimizing cardiac resynchronization with a new mapping device for epicardial lead placement. <i>European Journal of Cardio-thoracic Surgery</i> , 2004 , 25, 894-6	3	9
94	Towards a semantic PACS: Using Semantic Web technology to represent imaging data. <i>Studies in Health Technology and Informatics</i> , 2014 , 205, 166-70	0.5	9
93	CT images with expert manual contours of thoracic cancer for benchmarking auto-segmentation accuracy. <i>Medical Physics</i> , 2020 , 47, 3250-3255	4.4	8

92	Development and validation of a patient decision aid for prostate Cancer therapy: from paternalistic towards participative shared decision making. <i>BMC Medical Informatics and Decision Making</i> , 2019 , 19, 130	3.6	8
91	Dependence of ventilation image derived from 4D CT on deformable image registration and ventilation algorithms. <i>Journal of Applied Clinical Medical Physics</i> , 2013 , 14, 4247	2.3	8
90	A Privacy-Preserving Infrastructure for Analyzing Personal Health Data in a Vertically Partitioned Scenario. <i>Studies in Health Technology and Informatics</i> , 2019 , 264, 373-377	0.5	8
89	[OA071] O-RAW: Ontology-guided radiomics analysis workflow. <i>Physica Medica</i> , 2018 , 52, 27-28	2.7	7
88	What is the impact of innovation on output in healthcare with a special focus on treatment innovations in radiotherapy? A literature review. <i>British Journal of Radiology</i> , 2017 , 90, 20170251	3.4	7
87	Survival Prediction in Lung Cancer Treated with Radiotherapy: Bayesian Networks vs. Support Vector Machines in Handling Missing Data 2009 ,		7
86	Synchronously counterpulsating extracorporeal life support enhances myocardial working conditions regardless of systemic perfusion pressure. <i>European Journal of Cardio-thoracic Surgery</i> , 2005 , 28, 790-6	3	7
85	Automatic classification of dental artifact status for efficient image veracity checks: effects of image resolution and convolutional neural network depth. <i>Physics in Medicine and Biology</i> , 2020 , 65, 015005	3.8	7
84	Predicting outcomes in anal cancer patients using multi-centre data and distributed learning - A proof-of-concept study. <i>Radiotherapy and Oncology</i> , 2021 , 159, 183-189	5.3	7
83	Treatment data and technical process challenges for practical big data efforts in radiation oncology. <i>Medical Physics</i> , 2018 , 45, e793-e810	4.4	7
82	Using the Personal Health Train for Automated and Privacy-Preserving Analytics on Vertically Partitioned Data. <i>Studies in Health Technology and Informatics</i> , 2018 , 247, 581-585	0.5	7
81	User-controlled pipelines for feature integration and head and neck radiation therapy outcome predictions. <i>Physica Medica</i> , 2020 , 70, 145-152	2.7	6
80	Ontologies in radiation oncology. <i>Physica Medica</i> , 2020 , 72, 103-113	2.7	6
79	How efficient is translational research in radiation oncology? The example of a large Dutch academic radiation oncology department. <i>British Journal of Radiology</i> , 2016 , 89, 20160129	3.4	6
78	Electronic Health Record implementation in a large academic radiotherapy department: Temporarily disruptions but long-term benefits. <i>International Journal of Medical Informatics</i> , 2019 , 129, 342-348	5.3	6
77	PRODIGE: PRediction models in prOstate cancer for personalized meDICine challenGE. <i>Future Oncology</i> , 2017 , 13, 2171-2181	3.6	6
76	Prospective validation of pathologic complete response models in rectal cancer: Transferability and reproducibility. <i>Medical Physics</i> , 2017 , 44, 4961-4967	4.4	6
75	The effect of imputing missing clinical attribute values on training lung cancer survival prediction model performance. <i>Health Information Science and Systems</i> , 2017 , 5, 16	5.1	6

74	Point/Counterpoint. Future radiotherapy practice will be based on evidence from retrospective interrogation of linked clinical data sources rather than prospective randomized controlled clinical trials. <i>Medical Physics</i> , 2014 , 41, 030601	4.4	6
73	External Validation of Radiation-Induced Dyspnea Models on Esophageal Cancer Radiotherapy Patients. <i>Frontiers in Oncology</i> , 2019 , 9, 1411	5.3	6
72	Making radiotherapy more efficient with FAIR data. <i>Physica Medica</i> , 2021 , 82, 158-162	2.7	6
71	An Evaluation of Atlas Selection Methods for Atlas-Based Automatic Segmentation in Radiotherapy Treatment Planning. <i>IEEE Transactions on Medical Imaging</i> , 2019 , 38, 2654-2664	11.7	5
70	External validation and transfer learning of convolutional neural networks for computed tomography dental artifact classification. <i>Physics in Medicine and Biology</i> , 2020 , 65, 035017	3.8	5
69	From multisource data to clinical decision aids in radiation oncology: The need for a clinical data science community. <i>Radiotherapy and Oncology</i> , 2020 , 153, 43-54	5.3	5
68	Deep Learning Automated Segmentation for Muscle and Adipose Tissue from Abdominal Computed Tomography in Polytrauma Patients. <i>Sensors</i> , 2021 , 21,	3.8	5
67	Current applications of deep-learning in neuro-oncological MRI. <i>Physica Medica</i> , 2021 , 83, 161-173	2.7	5
66	Implementation of a rapid learning platform: Predicting 2-year survival in laryngeal carcinoma patients in a clinical setting. <i>Oncotarget</i> , 2016 , 7, 37288-37296	3.3	5
65	Prediction of lymph node metastases using pre-treatment PET radiomics of the primary tumour in esophageal adenocarcinoma: an external validation study. <i>British Journal of Radiology</i> , 2021 , 94, 20201042	2.4	5
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