

# Andre Dekker

## List of Publications by Year in descending order

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Version: 2024-02-01

264  
papers

22,928  
citations

25031

57  
h-index

9102

144  
g-index

281  
all docs

281  
docs citations

281  
times ranked

17353  
citing authors

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | Radiomics: Extracting more information from medical images using advanced feature analysis. European Journal of Cancer, 2012, 48, 441-446.   | 2.8  | 3,846     |
| 2  | Decoding tumour phenotype by noninvasive imaging using a quantitative radiomics approach. Nature Communications, 2014, 5, 4006.  | 12.8 | 3,355     |
| 3  | Radiomics: the bridge between medical imaging and personalized medicine. Nature Reviews Clinical Oncology, 2017, 14, 749-762.  | 27.6 | 3,216     |
| 4  | Radiomics: the process and the challenges. Magnetic Resonance Imaging, 2012, 30, 1234-1248.  | 1.8  | 1,675     |
| 5  | Characterisation and classification of oligometastatic disease: a European Society for Radiotherapy and Oncology and European Organisation for Research and Treatment of Cancer consensus recommendation. Lancet Oncology, The, 2020, 21, e18-e28.                             | 10.7 | 588       |
| 6  | Repeatability and Reproducibility of Radiomic Features: A Systematic Review. International Journal of Radiation Oncology Biology Physics, 2018, 102, 1143-1158.  | 0.8  | 527       |
| 7  | Three-dimensional photoacoustic imaging of blood vessels in tissue. Optics Letters, 1998, 23, 648.   | 3.3  | 449       |
| 8  | Stability of FDG-PET Radiomics features: An integrated analysis of test-retest and inter-observer variability. Acta Oncologica, 2013, 52, 1391-1397.   | 1.8  | 353       |
| 9  | Identification of residual metabolic-active areas within individual NSCLC tumours using a pre-radiotherapy 18Fluorodeoxyglucose-PET-CT scan. Radiotherapy and Oncology, 2009, 91, 386-392.   | 0.6  | 340       |
| 10 | Predicting outcomes in radiation oncology – multifactorial decision support systems. Nature Reviews Clinical Oncology, 2013, 10, 27-40.  | 27.6 | 329       |
| 11 | 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. International Journal of Radiation Oncology Biology Physics, 2007, 68, 771-778. | 0.8  | 274       |
| 12 | Clinical evaluation of atlas and deep learning based automatic contouring for lung cancer. Radiotherapy and Oncology, 2018, 126, 312-317.  | 0.6  | 256       |
| 13 | Vulnerabilities of radiomic signature development: The need for safeguards. Radiotherapy and Oncology, 2019, 130, 2-9.   | 0.6  | 233       |
| 14 | Machine learning algorithms for outcome prediction in (chemo)radiotherapy: An empirical comparison of classifiers. Medical Physics, 2018, 45, 3449-3459.   | 3.0  | 214       |
| 15 | Quantitative Computed Tomographic Descriptors Associate Tumor Shape Complexity and Intratumor Heterogeneity with Prognosis in Lung Adenocarcinoma. PLoS ONE, 2015, 10, e0118261.   | 2.5  | 207       |
| 16 | Epicardial left ventricular lead placement for cardiac resynchronization therapy: optimal pace site selection with pressure-volume loops. Journal of Thoracic and Cardiovascular Surgery, 2004, 127, 1641-1647.  | 0.8  | 189       |
| 17 | “Rapid Learning health care in oncology” – An approach towards decision support systems enabling customised radiotherapy. Radiotherapy and Oncology, 2013, 109, 159-164.   | 0.6  | 175       |
| 18 | Autosegmentation for thoracic radiation treatment planning: A grand challenge at AAPM 2017. Medical Physics, 2018, 45, 4568-4581.  | 3.0  | 169       |

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|----|---|------|-----------|
| 19 | 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, 301-308.   | 0.8  | 154       |
| 20 | 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.  | 0.6  | 139       |
| 21 | Automated delineation of lung tumors from CT images using a single click ensemble segmentation approach. <i>Pattern Recognition</i> , 2013, 46, 692-702.  | 8.1  | 138       |
| 22 | Test–Retest Data for Radiomics Feature Stability Analysis: Generalizable or Study-Specific?. <i>Tomography</i> , 2016, 2, 361-365.  | 1.8  | 135       |
| 23 | Decision support systems for personalized and participative radiation oncology. <i>Advanced Drug Delivery Reviews</i> , 2017, 109, 131-153.   | 13.7 | 113       |
| 24 | 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, 748-753. | 0.8  | 105       |
| 25 | 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.   | 0.8  | 102       |
| 26 | 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, 145-152.   | 0.6  | 101       |
| 27 | 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, 167-173.  | 0.6  | 99        |
| 28 | Radiogenomics: Radiobiology Enters the Era of Big Data and Team Science. <i>International Journal of Radiation Oncology Biology Physics</i> , 2014, 89, 709-713.  | 0.8  | 99        |
| 29 | 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.  | 1.7  | 98        |
| 30 | Distributed learning on 20 000+ lung cancer patients – The Personal Health Train. <i>Radiotherapy and Oncology</i> , 2020, 144, 189-200.  | 0.6  | 97        |
| 31 | 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.  | 0.6  | 93        |
| 32 | Routine individualised patient dosimetry using electronic portal imaging devices. <i>Radiotherapy and Oncology</i> , 2007, 83, 65-75.   | 0.6  | 91        |
| 33 | Fractal-based radiomic approach to predict complete pathological response after chemo-radiotherapy in rectal cancer. <i>Radiologia Medica</i> , 2018, 123, 286-295.   | 7.7  | 91        |
| 34 | A global calibration model for EPIDs used for transit dosimetry. <i>Medical Physics</i> , 2007, 34, 3872-3884.  | 3.0  | 86        |
| 35 | 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, 1401-1407.  | 3.0  | 85        |
| 36 | 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.   | 0.6  | 83        |

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|----|--|-----|-----------|
| 37 | 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.   | 0.6 | 82        |
| 38 | 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, 1402-1407.  | 0.8 | 81        |
| 39 | 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.                        | 0.8 | 81        |
| 40 | Creating a data exchange strategy for radiotherapy research: Towards federated databases and anonymised public datasets. <i>Radiotherapy and Oncology</i> , 2014, 113, 303-309.  | 0.6 | 79        |
| 41 | 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.                               | 0.6 | 77        |
| 42 | Evaluation of nonrigid registration models for interfraction dose accumulation in radiotherapy. <i>Medical Physics</i> , 2009, 36, 4268-4276.  | 3.0 | 73        |
| 43 | 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, 145-152.                           | 0.6 | 72        |
| 44 | 3D In Vivo Dosimetry Using Megavoltage Cone-Beam CT and EPID Dosimetry. <i>International Journal of Radiation Oncology Biology Physics</i> , 2009, 73, 1580-1587.  | 0.8 | 71        |
| 45 | [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. | 0.8 | 67        |
| 46 | 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.  | 0.6 | 67        |
| 47 | Machine learning and modeling: Data, validation, communication challenges. <i>Medical Physics</i> , 2018, 45, e834-e840.   | 3.0 | 67        |
| 48 | 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, 1103-1110.   | 0.8 | 66        |
| 49 | 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, 281-285.                                 | 0.6 | 65        |
| 50 | 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, 232-238.   | 0.6 | 64        |
| 51 | Increased 18F-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, 415-420.                            | 0.6 | 64        |
| 52 | Artificial intelligence-based clinical decision support in modern medical physics: Selection, acceptance, commissioning, and quality assurance. <i>Medical Physics</i> , 2020, 47, e228-e235.  | 3.0 | 64        |
| 53 | A Monte Carlo based three-dimensional dose reconstruction method derived from portal dose images. <i>Medical Physics</i> , 2006, 33, 2426-2434.  | 3.0 | 63        |
| 54 | Radiogenomics: the search for genetic predictors of radiotherapy response. <i>Future Oncology</i> , 2014, 10, 2391-2406.   | 2.4 | 63        |

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|----|---|-----|-----------|
| 55 | Phased attenuation correction in respiration correlated computed tomography/positron emitted tomography. <i>Medical Physics</i> , 2006, 33, 1840-1847.  | 3.0 | 62        |
| 56 | Benefits of a clinical data warehouse with data mining tools to collect data for a radiotherapy trial. <i>Radiotherapy and Oncology</i> , 2013, 108, 174-179.   | 0.6 | 62        |
| 57 | Distributed Analytics on Sensitive Medical Data: The Personal Health Train. <i>Data Intelligence</i> , 2020, 2, 96-107.   | 1.5 | 62        |
| 58 | 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, 1289-1300.                     | 1.8 | 59        |
| 59 | Suction Due to Left Ventricular Assist: Implications for Device Control and Management. <i>Artificial Organs</i> , 2007, 31, 542-549.   | 1.9 | 58        |
| 60 | Comparative evaluation of autocontouring in clinical practice: A practical method using the Turing test. <i>Medical Physics</i> , 2018, 45, 5105-5115.  | 3.0 | 58        |
| 61 | 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, 1394-1401. | 0.8 | 57        |
| 62 | 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.              | 0.8 | 56        |
| 63 | Intra-voxel heterogeneity influences the dose prescription for dose-painting with radiotherapy: a modelling study. <i>Physics in Medicine and Biology</i> , 2009, 54, 2179-2196.  | 3.0 | 55        |
| 64 | Learning from scanners: Bias reduction and feature correction in radiomics. <i>Clinical and Translational Radiation Oncology</i> , 2019, 19, 33-38.   | 1.7 | 54        |
| 65 | 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, 393-398. | 0.6 | 53        |
| 66 | The integration of PET-CT scans from different hospitals into radiotherapy treatment planning. <i>Radiotherapy and Oncology</i> , 2008, 87, 142-146.  | 0.6 | 52        |
| 67 | 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, 215-222.   | 0.6 | 51        |
| 68 | Cardiac comorbidity is an independent risk factor for radiation-induced lung toxicity in lung cancer patients. <i>Radiotherapy and Oncology</i> , 2013, 109, 100-106.   | 0.6 | 50        |
| 69 | The radiation oncology ontology (<scp>ROO</scp>): Publishing linked data in radiation oncology using semantic web and ontology techniques. <i>Medical Physics</i> , 2018, 45, e854-e862.                                  | 3.0 | 49        |
| 70 | Respiratory-gated CT as a tool for the simulation of breathing artifacts in PET and PET/CT. <i>Medical Physics</i> , 2008, 35, 576-585.   | 3.0 | 47        |
| 71 | A ventricular-vascular coupling model in presence of aortic stenosis. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2005, 288, H1874-H1884.  | 3.2 | 46        |
| 72 | 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.      | 0.6 | 45        |

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|----|--|-----|-----------|
| 73 | Prognostic value of metabolic metrics extracted from baseline positron emission tomography images in non-small cell lung cancer. <i>Acta Oncologica</i> , 2013, 52, 1398-1404.   | 1.8 | 44        |
| 74 | 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.                             | 0.6 | 44        |
| 75 | 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.   | 2.1 | 43        |
| 76 | 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.   | 0.7 | 42        |
| 77 | Machine learning helps identifying volume-confounding effects in radiomics. <i>Physica Medica</i> , 2020, 71, 24-30.   | 0.7 | 42        |
| 78 | 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.  | 0.6 | 41        |
| 79 | 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, 228-233. | 0.6 | 40        |
| 80 | 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.                                     | 2.8 | 40        |
| 81 | Treatment verification in the presence of inhomogeneities using EPID-based three-dimensional dose reconstruction. <i>Medical Physics</i> , 2007, 34, 2816-2826.  | 3.0 | 39        |
| 82 | Technical Note: Ontology-guided radiomics analysis workflow (O-CRAW). <i>Medical Physics</i> , 2019, 46, 5677-5684.  | 3.0 | 38        |
| 83 | Personalized risk prediction for breast cancer pre-screening using artificial intelligence and thermal radiomics. <i>Artificial Intelligence in Medicine</i> , 2020, 105, 101854.  | 6.5 | 38        |
| 84 | 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.                       | 0.6 | 37        |
| 85 | Distributed radiomics as a signature validation study using the Personal Health Train infrastructure. <i>Scientific Data</i> , 2019, 6, 218.   | 5.3 | 37        |
| 86 | A systematic review and quality of reporting checklist for repeatability and reproducibility of radiomic features. <i>Physics and Imaging in Radiation Oncology</i> , 2021, 20, 69-75.   | 2.9 | 37        |
| 87 | Towards a modular decision support system for radiomics: A case study on rectal cancer. <i>Artificial Intelligence in Medicine</i> , 2019, 96, 145-153.  | 6.5 | 36        |
| 88 | Dyspnea evolution after high-dose radiotherapy in patients with non-small cell lung cancer. <i>Radiotherapy and Oncology</i> , 2009, 91, 353-359.  | 0.6 | 35        |
| 89 | 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, 188-194.  | 0.6 | 35        |
| 90 | 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.   | 1.8 | 35        |

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|-----|--|-----|-----------|
| 91  | In Vivo Dosimetry Using a Linear Mosfet-Array Dosimeter to Determine the Urethra Dose In 125I Permanent Prostate Implants. International Journal of Radiation Oncology Biology Physics, 2009, 73, 314-321.   | 0.8 | 33        |
| 92  | An Approach Toward Automatic Classification of Tumor Histopathology of Non-“Small Cell Lung Cancer Based on Radiomic Features. Tomography, 2016, 2, 374-377.   | 1.8 | 33        |
| 93  | Robot-assisted epicardial ablation of the pulmonary veins: is a completed isolation necessary?. European Heart Journal, 2005, 26, 1321-1326.   | 2.2 | 32        |
| 94  | Standardized data collection to build prediction models in oncology: a prototype for rectal cancer. Future Oncology, 2016, 12, 119-136.  | 2.4 | 32        |
| 95  | Intra-Aortic Balloon Pumping in Acute Mitral Regurgitation Reduces Aortic Impedance and Regurgitant Fraction. Shock, 2003, 19, 334-338.  | 2.1 | 31        |
| 96  | Tumor Delineation Based on Time-“Activity Curve Differences Assessed With Dynamic Fluorodeoxyglucose Positron Emission Tomography-“Computed Tomography in Rectal Cancer Patients. International Journal of Radiation Oncology Biology Physics, 2009, 73, 456-465.    | 0.8 | 31        |
| 97  | 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. Radiotherapy and Oncology, 2008, 88, 326-334. | 0.6 | 30        |
| 98  | Calibration of megavoltage cone-beam CT for radiotherapy dose calculations: Correction of cupping artifacts and conversion of CT numbers to electron density. Medical Physics, 2008, 35, 849-865.  | 3.0 | 29        |
| 99  | An “in silico”-clinical trial comparing free breathing, slow and respiration correlated computed tomography in lung cancer patients. Radiotherapy and Oncology, 2006, 81, 73-80.   | 0.6 | 28        |
| 100 | Time Trends in Nodal Volumes and Motion During Radiotherapy for Patients With Stage III Non-Small-Cell Lung Cancer. International Journal of Radiation Oncology Biology Physics, 2008, 71, 139-144.  | 0.8 | 27        |
| 101 | Development and validation of a patient decision aid for prostate Cancer therapy: from paternalistic towards participative shared decision making. BMC Medical Informatics and Decision Making, 2019, 19, 130.   | 3.0 | 26        |
| 102 | Multicenter <scp>CT</scp> phantoms public dataset for radiomics reproducibility tests. Medical Physics, 2019, 46, 1512-1518.   | 3.0 | 26        |
| 103 | Validation of three deformable image registration algorithms for the thorax. Journal of Applied Clinical Medical Physics, 2013, 14, 19-30.   | 1.9 | 25        |
| 104 | An Evaluation of Atlas Selection Methods for Atlas-Based Automatic Segmentation in Radiotherapy Treatment Planning. IEEE Transactions on Medical Imaging, 2019, 38, 2654-2664.   | 8.9 | 23        |
| 105 | Big Data in radiation therapy: challenges and opportunities. British Journal of Radiology, 2017, 90, 20160689.   | 2.2 | 22        |
| 106 | Current applications of deep-learning in neuro-oncological MRI. Physica Medica, 2021, 83, 161-173.   | 0.7 | 22        |
| 107 | Can Atlas-Based Auto-Segmentation Ever Be Perfect? Insights From Extreme Value Theory. IEEE Transactions on Medical Imaging, 2019, 38, 99-106.   | 8.9 | 21        |
| 108 | External validation of a prognostic model incorporating quantitative PET image features in oesophageal cancer. Radiotherapy and Oncology, 2019, 133, 205-212.  | 0.6 | 21        |

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|-----|--|-----|-----------|
| 109 | Efficacy of a New Intraaortic Propeller Pump vs the Intraaortic Balloon Pump. <i>Chest</i> , 2003, 123, 2089-2095.   | 0.8 | 20        |
| 110 | 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, 359-366.               | 0.6 | 20        |
| 111 | The Impact of Clinical Trial Quality Assurance on Outcome in Head and Neck Radiotherapy Treatment. <i>Frontiers in Oncology</i> , 2019, 9, 792.  | 2.8 | 20        |
| 112 | Minimum Data Elements for Radiation Oncology: An American Society for Radiation Oncology Consensus Paper. <i>Practical Radiation Oncology</i> , 2019, 9, 395-401.  | 2.1 | 20        |
| 113 | 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.  | 0.6 | 20        |
| 114 | FAIR-compliant clinical, radiomics and DICOM metadata of RIDER, interobserver, Lung1 and head&Neck1 TCIA collections. <i>Medical Physics</i> , 2020, 47, 5931-5940.  | 3.0 | 20        |
| 115 | Deep Learning Automated Segmentation for Muscle and Adipose Tissue from Abdominal Computed Tomography in Polytrauma Patients. <i>Sensors</i> , 2021, 21, 2083.   | 3.8 | 20        |
| 116 | The enabler right ventricular circulatory support system for beating heart coronary artery bypass graft surgery. <i>Annals of Thoracic Surgery</i> , 1999, 68, 1558-1561.  | 1.3 | 19        |
| 117 | VATE: Validation of high TEchnology based on large database analysis by learning machine. <i>Colorectal Cancer</i> , 2014, 3, 435-450.   | 0.8 | 19        |
| 118 | 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.  | 0.6 | 18        |
| 119 | Informatics methods to enable sharing of quantitative imaging research data. <i>Magnetic Resonance Imaging</i> , 2012, 30, 1249-1256.  | 1.8 | 17        |
| 120 | External validation of nodal failure prediction models including radiomics in head and neck cancer. <i>Oral Oncology</i> , 2021, 112, 105083.  | 1.5 | 17        |
| 121 | Validation of a rectal cancer outcome prediction model with a cohort of Chinese patients. <i>Oncotarget</i> , 2015, 6, 38327-38335.  | 1.8 | 17        |
| 122 | Systematic review of radiomic biomarkers for predicting immune checkpoint inhibitor treatment outcomes. <i>Methods</i> , 2021, 188, 61-72.   | 3.8 | 16        |
| 123 | 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, 1266-1272. | 0.8 | 15        |
| 124 | Effects of quantum noise in 4D-CT on deformable image registration and derived ventilation data. <i>Physics in Medicine and Biology</i> , 2013, 58, 7661-7672.   | 3.0 | 15        |
| 125 | Distributed Learning to Protect Privacy in Multi-centric Clinical Studies. <i>Lecture Notes in Computer Science</i> , 2015, , 65-75.   | 1.3 | 15        |
| 126 | Prognostic factors analysis for oral cavity cancer survival in the Netherlands and Taiwan using a privacy-preserving federated infrastructure. <i>Scientific Reports</i> , 2020, 10, 20526.                                  | 3.3 | 15        |



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|-----|--|-----|-----------|
| 127 | CT images with expert manual contours of thoracic cancer for benchmarking auto-segmentation accuracy. <i>Medical Physics</i> , 2020, 47, 3250-3255.  | 3.0 | 15        |
| 128 | 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, 179-184.   | 1.4 | 14        |
| 129 | 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, 389-395.   | 0.6 | 14        |
| 130 | GPU technology is the hope for near real-time Monte Carlo dose calculations. <i>Medical Physics</i> , 2015, 42, 1474-1476.   | 3.0 | 14        |
| 131 | User-controlled pipelines for feature integration and head and neck radiation therapy outcome predictions. <i>Physica Medica</i> , 2020, 70, 145-152.  | 0.7 | 14        |
| 132 | Generative models improve radiomics reproducibility in low dose CTs: a simulation study. <i>Physics in Medicine and Biology</i> , 2021, 66, .  | 3.0 | 14        |
| 133 | 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.  | 3.0 | 13        |
| 134 | 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, 150-162.  | 1.9 | 13        |
| 135 | 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.   | 2.2 | 13        |
| 136 | Treatment data and technical process challenges for practical big data efforts in radiation oncology. <i>Medical Physics</i> , 2018, 45, e793-e810.  | 3.0 | 13        |
| 137 | Ontologies in radiation oncology. <i>Physica Medica</i> , 2020, 72, 103-113.   | 0.7 | 13        |
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