

Raymond H Mak

List of Publications by Year in descending order

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Version: 2024-02-01

77
papers

6,396
citations

136740

32
h-index

74018

75
g-index

78
all docs

78
docs citations

78
times ranked

7757
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-------|-----------|
| 1 | Artificial intelligence in cancer imaging: Clinical challenges and applications. <i>Ca-A Cancer Journal for Clinicians</i> , 2019, 69, 127-157. | 157.7 | 965 |
| 2 | CT-based radiomic signature predicts distant metastasis in lung adenocarcinoma. <i>Radiotherapy and Oncology</i> , 2015, 114, 345-350. | 0.3 | 576 |
| 3 | Robust Radiomics Feature Quantification Using Semiautomatic Volumetric Segmentation. <i>PLoS ONE</i> , 2014, 9, e102107. | 1.1 | 488 |
| 4 | Deep learning for lung cancer prognostication: A retrospective multi-cohort radiomics study. <i>PLoS Medicine</i> , 2018, 15, e1002711. | 3.9 | 385 |
| 5 | Deep Learning Predicts Lung Cancer Treatment Response from Serial Medical Imaging. <i>Clinical Cancer Research</i> , 2019, 25, 3266-3275. | 3.2 | 364 |
| 6 | Somatic Mutations Drive Distinct Imaging Phenotypes in Lung Cancer. <i>Cancer Research</i> , 2017, 77, 3922-3930. | 0.4 | 307 |
| 7 | Exploratory Study to Identify Radiomics Classifiers for Lung Cancer Histology. <i>Frontiers in Oncology</i> , 2016, 6, 71. | 1.3 | 306 |
| 8 | Radiomic phenotype features predict pathological response in non-small cell lung cancer. <i>Radiotherapy and Oncology</i> , 2016, 119, 480-486. | 0.3 | 266 |
| 9 | Radiomic-Based Pathological Response Prediction from Primary Tumors and Lymph Nodes in NSCLC. <i>Journal of Thoracic Oncology</i> , 2017, 12, 467-476. | 0.5 | 171 |
| 10 | Volumetric CT-based segmentation of NSCLC using 3D-Slicer. <i>Scientific Reports</i> , 2013, 3, 3529. | 1.6 | 168 |
| 11 | Artificial intelligence in radiation oncology. <i>Nature Reviews Clinical Oncology</i> , 2020, 17, 771-781. | 12.5 | 167 |
| 12 | 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. | 1.2 | 163 |
| 13 | CT-based radiomic analysis of stereotactic body radiation therapy patients with lung cancer. <i>Radiotherapy and Oncology</i> , 2016, 120, 258-266. | 0.3 | 159 |
| 14 | Definitive Primary Therapy in Patients Presenting With Oligometastatic Non-Small Cell Lung Cancer. <i>International Journal of Radiation Oncology Biology Physics</i> , 2014, 89, 880-887. | 0.4 | 136 |
| 15 | Associations Between Somatic Mutations and Metabolic Imaging Phenotypes in Non-Small Cell Lung Cancer. <i>Journal of Nuclear Medicine</i> , 2017, 58, 569-576. | 2.8 | 131 |
| 16 | Durvalumab plus tremelimumab alone or in combination with low-dose or hypofractionated radiotherapy in metastatic non-small-cell lung cancer refractory to previous PD(L)-1 therapy: an open-label, multicentre, randomised, phase 2 trial. <i>Lancet Oncology</i> , The, 2022, 23, 279-291. | 5.1 | 118 |
| 17 | Peritumoral radiomics features predict distant metastasis in locally advanced NSCLC. <i>PLoS ONE</i> , 2018, 13, e0206108. | 1.1 | 113 |
| 18 | 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. | 3.4 | 101 |

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|----|--|-----|-----------|
| 19 | Deep learning classification of lung cancer histology using CT images. <i>Scientific Reports</i> , 2021, 11, 5471. | 1.6 | 96 |
| 20 | 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. | 1.1 | 87 |
| 21 | Aggressive therapy for patients with non-small cell lung carcinoma and synchronous brain-only oligometastatic disease is associated with long-term survival. <i>Lung Cancer</i> , 2014, 85, 239-244. | 0.9 | 82 |
| 22 | Radiation Resistance in KRAS-Mutated Lung Cancer Is Enabled by Stem-like Properties Mediated by an Osteopontin-EGFR Pathway. <i>Cancer Research</i> , 2017, 77, 2018-2028. | 0.4 | 80 |
| 23 | Updated patterns of failure after multimodality therapy for malignant pleural mesothelioma. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2015, 149, 1374-1381. | 0.4 | 75 |
| 24 | 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. | 1.1 | 67 |
| 25 | A Randomized Phase 2 Study of Pembrolizumab With or Without Radiation in Patients With Recurrent or Metastatic Adenoid Cystic Carcinoma. <i>International Journal of Radiation Oncology Biology Physics</i> , 2021, 109, 134-144. | 0.4 | 61 |
| 26 | Handcrafted versus deep learning radiomics for prediction of cancer therapy response. <i>The Lancet Digital Health</i> , 2019, 1, e106-e107. | 5.9 | 59 |
| 27 | Targeted Therapy as an Alternative to Whole-Brain Radiotherapy in EGFR-Mutant or ALK-Positive Non-Small-Cell Lung Cancer With Brain Metastases. <i>JAMA Oncology</i> , 2017, 3, 1274. | 3.4 | 46 |
| 28 | Image-guided radiotherapy platform using single nodule conditional lung cancer mouse models. <i>Nature Communications</i> , 2014, 5, 5870. | 5.8 | 44 |
| 29 | Impact of experimental design on PET radiomics in predicting somatic mutation status. <i>European Journal of Radiology</i> , 2017, 97, 8-15. | 1.2 | 44 |
| 30 | Bladder preservation: optimizing radiotherapy and integrated treatment strategies. <i>BJU International</i> , 2008, 102, 1345-1353. | 1.3 | 42 |
| 31 | Approaching autonomy in medical artificial intelligence. <i>The Lancet Digital Health</i> , 2020, 2, e447-e449. | 5.9 | 41 |
| 32 | Use of frailty to predict survival in elderly patients with early stage non-small-cell lung cancer treated with stereotactic body radiation therapy. <i>Journal of Geriatric Oncology</i> , 2018, 9, 130-137. | 0.5 | 36 |
| 33 | Low Incidence of Chest Wall Pain with a Risk-Adapted Lung Stereotactic Body Radiation Therapy Approach Using Three or Five Fractions Based on Chest Wall Dosimetry. <i>PLoS ONE</i> , 2014, 9, e94859. | 1.1 | 35 |
| 34 | 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. | 0.4 | 33 |
| 35 | Clinical Natural Language Processing for Radiation Oncology: A Review and Practical Primer. <i>International Journal of Radiation Oncology Biology Physics</i> , 2021, 110, 641-655. | 0.4 | 30 |
| 36 | Substrate Modification Using Stereotactic Radioablation to Treat Refractory Ventricular Tachycardia in Patients With Ischemic Cardiomyopathy. <i>JACC: Clinical Electrophysiology</i> , 2022, 8, 49-58. | 1.3 | 29 |

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|----|--|-----|-----------|
| 37 | An initial study on the estimation of time-varying volumetric treatment images and 3D tumor localization from single MV cine EPID images. <i>Medical Physics</i> , 2014, 41, 081713. | 1.6 | 23 |
| 38 | Radiographic patterns of symptomatic radiation pneumonitis in lung cancer patients: Imaging predictors for clinical severity and outcome. <i>Lung Cancer</i> , 2020, 145, 132-139. | 0.9 | 20 |
| 39 | Radiologic-pathologic correlation of response to chemoradiation in resectable locally advanced NSCLC. <i>Lung Cancer</i> , 2016, 102, 1-8. | 0.9 | 18 |
| 40 | Changes in Length and Complexity of Clinical Practice Guidelines in Oncology, 1996-2019. <i>JAMA Network Open</i> , 2020, 3, e200841. | 2.8 | 18 |
| 41 | EGFR mutant locally advanced non-small cell lung cancer is at increased risk of brain metastasis. <i>Clinical and Translational Radiation Oncology</i> , 2019, 18, 32-38. | 0.9 | 17 |
| 42 | Statin Use, Heart Radiation Dose, and Survival in Locally Advanced Lung Cancer. <i>Practical Radiation Oncology</i> , 2021, 11, e459-e467. | 1.1 | 16 |
| 43 | Master Protocol Trial Design for Efficient and Rational Evaluation of Novel Therapeutic Oncology Devices. <i>Journal of the National Cancer Institute</i> , 2020, 112, 229-237. | 3.0 | 15 |
| 44 | Advanced nodal stage predicts venous thromboembolism in patients with locally advanced non-small cell lung cancer. <i>Lung Cancer</i> , 2016, 96, 41-47. | 0.9 | 14 |
| 45 | Deep-learning system to improve the quality and efficiency of volumetric heart segmentation for breast cancer. <i>Npj Digital Medicine</i> , 2021, 4, 43. | 5.7 | 13 |
| 46 | Non-invasive ablation of arrhythmias with stereotactic ablative radiotherapy. <i>Trends in Cardiovascular Medicine</i> , 2022, 32, 287-296. | 2.3 | 13 |
| 47 | Radiation toxicity in patients with collagen vascular disease and intrathoracic malignancy treated with modern radiation techniques. <i>Radiotherapy and Oncology</i> , 2017, 125, 301-309. | 0.3 | 11 |
| 48 | Non-invasive Stereotactic Radioablation: A New Option for the Treatment of Ventricular Arrhythmias. <i>Arrhythmia and Electrophysiology Review</i> , 2020, 8, 285-293. | 1.3 | 11 |
| 49 | T-staging pulmonary oncology from radiological reports using natural language processing: translating into a multi-language setting. <i>Insights Into Imaging</i> , 2021, 12, 77. | 1.6 | 10 |
| 50 | The Nordic-HILUS Trial: Ultracentral Lung Stereotactic Ablative Radiotherapy and a Narrow Therapeutic Window. <i>Journal of Thoracic Oncology</i> , 2021, 16, e79-e80. | 0.5 | 10 |
| 51 | Noninvasive Stereotactic Radioablation for Ventricular Tachycardia. <i>Circulation</i> , 2019, 139, 322-324. | 1.6 | 9 |
| 52 | Elevated Coronary Artery Calcium Quantified by a Validated Deep Learning Model From Lung Cancer Radiotherapy Planning Scans Predicts Mortality. <i>JCO Clinical Cancer Informatics</i> , 2022, 6, e2100095. | 1.0 | 9 |
| 53 | Major adverse cardiac event risk prediction model incorporating baseline Cardiac disease, Hypertension, and Logarithmic Left anterior descending coronary artery radiation dose in lung cancer (CHyLL). <i>Radiotherapy and Oncology</i> , 2022, 169, 105-113. | 0.3 | 9 |
| 54 | Deep Learning-based Detection of Intravenous Contrast Enhancement on CT Scans. <i>Radiology: Artificial Intelligence</i> , 2022, 4, . | 3.0 | 9 |

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|----|---|-----|-----------|
| 55 | Cardiac stereotactic body radiation therapy for ventricular tachycardia: Current experience and technical gaps. <i>Journal of Cardiovascular Electrophysiology</i> , 2021, 32, 2901-2914. | 0.8 | 8 |
| 56 | Lymph node volume predicts survival but not nodal clearance in Stage IIIA-IIIB NSCLC. <i>PLoS ONE</i> , 2017, 12, e0174268. | 1.1 | 7 |
| 57 | 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. | 1.2 | 7 |
| 58 | Integration of multiomic annotation data to prioritize and characterize inflammation and immune-related risk variants in squamous cell lung cancer. <i>Genetic Epidemiology</i> , 2021, 45, 99-114. | 0.6 | 7 |
| 59 | Recurrent ventricular tachycardia arising at the treatment borderzone after stereotactic radioablation in a patient with ischemic cardiomyopathy. <i>Europace</i> , 2020, 22, 1053-1053. | 0.7 | 6 |
| 60 | Outcomes by EGFR, KRAS, and ALK Genotype After Combined Modality Therapy for Locally Advanced Non-Small-Cell Lung Cancer. <i>JCO Precision Oncology</i> , 2018, 2, 1-18. | 1.5 | 5 |
| 61 | Noninvasive Cardiac Radioablation for Ventricular Arrhythmias. <i>Current Cardiovascular Risk Reports</i> , 2019, 13, 1. | 0.8 | 5 |
| 62 | Radiation Safety and Cardiovascular Implantable Electronic Devices. <i>International Journal of Radiation Oncology Biology Physics</i> , 2018, 102, 243-246. | 0.4 | 4 |
| 63 | Phase I/II Study of Stereotactic Body Radiation Therapy for Pulmonary Metastases in Pediatric Patients. <i>Advances in Radiation Oncology</i> , 2020, 5, 1267-1273. | 0.6 | 4 |
| 64 | Dosimetric Planning Tradeoffs to Reduce Heart Dose Using Machine Learning-Guided Decision Support Software in Patients with Lung Cancer. <i>International Journal of Radiation Oncology Biology Physics</i> , 2022, 112, 996-1003. | 0.4 | 4 |
| 65 | Technical note: Toward implementation of MR-guided radiation therapy for laryngeal cancer with healthy volunteer imaging and a custom MR-CT larynx phantom. <i>Medical Physics</i> , 2022, 49, 1814-1821. | 1.6 | 4 |
| 66 | 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. | 0.9 | 3 |
| 67 | Development and Implementation of an Online Adaptive Stereotactic Body Radiation Therapy Workflow for Treatment of Intracardiac Metastasis. <i>Practical Radiation Oncology</i> , 2021, 11, e395-e401. | 1.1 | 3 |
| 68 | Are Artificial Intelligence Challenges Becoming Radiology's New "Bee's Knees"? <i>Radiology: Artificial Intelligence</i> , 2021, 3, e210056. | 3.0 | 3 |
| 69 | Rates of invasive disease and outcomes in NSCLC patients with biopsy suggestive of carcinoma in situ. <i>Lung Cancer</i> , 2021, 157, 17-20. | 0.9 | 3 |
| 70 | Use of a healthy volunteer imaging program to optimize clinical implementation of stereotactic MR-guided adaptive radiotherapy. <i>Technical Innovations and Patient Support in Radiation Oncology</i> , 2020, 16, 70-76. | 0.6 | 2 |
| 71 | Case report of tracheobronchial squamous cell carcinoma treated with radiation therapy and concurrent chemotherapy. <i>Advances in Radiation Oncology</i> , 2016, 1, 127-131. | 0.6 | 1 |
| 72 | Prophylactic cranial irradiation in patients with extensive-stage small cell lung cancer. <i>Neuro-Oncology</i> , 2017, 19, 1015-1016. | 0.6 | 1 |

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|----|---|-----|-----------|
| 73 | Abstract 761: Body composition and overall survival in esophageal cancer patients. <i>Cancer Research</i> , 2021, 81, 761-761. | 0.4 | 1 |
| 74 | Impact of aggressive therapy in patients with non-small cell lung carcinoma presenting with brain-only oligometastatic disease.. <i>Journal of Clinical Oncology</i> , 2013, 31, 8069-8069. | 0.8 | 1 |
| 75 | Surgical complications and clinical outcomes after dose-escalated trimodality therapy for non-small cell lung cancer in the era of intensity-modulated radiotherapy. <i>Radiotherapy and Oncology</i> , 2021, 165, 44-51. | 0.3 | 1 |
| 76 | Factors associated with survival in non-small cell lung cancer (NSCLC) patients with a solitary metastasis.. <i>Journal of Clinical Oncology</i> , 2013, 31, e19121-e19121. | 0.8 | 0 |
| 77 | Cost of cardiac stereotactic body radioablation therapy versus catheter ablation for treatment of ventricular tachycardia. <i>PACE - Pacing and Clinical Electrophysiology</i> , 0, , . | 0.5 | 0 |