

# Henry C Woodruff

## List of Publications by Year in descending order

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Version: 2024-02-01

62  
papers

5,310  
citations

201674

27  
h-index

149698

56  
g-index

63  
all docs

63  
docs citations

63  
times ranked

6230  
citing authors

#	ARTICLE	IF	CITATIONS
1	A fully automatic artificial intelligenceâ€‘based CT image analysis system for accurate detection, diagnosis, and quantitative severity evaluation of pulmonary tuberculosis. <i>European Radiology</i> , 2022, 32, 2188-2199.	4.5	30
2	Transparency of deep neural networks for medical image analysis: A review of interpretability methods. <i>Computers in Biology and Medicine</i> , 2022, 140, 105111.	7.0	131
3	Improving and Externally Validating Mortality Prediction Models for COVID-19 Using Publicly Available Data. <i>BioMed</i> , 2022, 2, 13-26.	1.1	3
4	Deep Learningâ€‘based Automatic Lung Segmentation on Multiresolution CT Scans from Healthy and Fibrotic Lungs in Mice. <i>Radiology: Artificial Intelligence</i> , 2022, 4, e210095.	5.8	6
5	Data harmonisation for information fusion in digital healthcare: A state-of-the-art systematic review, meta-analysis and future research directions. <i>Information Fusion</i> , 2022, 82, 99-122.	19.1	62
6	A Handcrafted Radiomics-Based Model for the Diagnosis of Usual Interstitial Pneumonia in Patients with Idiopathic Pulmonary Fibrosis. <i>Journal of Personalized Medicine</i> , 2022, 12, 373.	2.5	6
7	CT Reconstruction Kernels and the Effect of Pre- and Post-Processing on the Reproducibility of Handcrafted Radiomic Features. <i>Journal of Personalized Medicine</i> , 2022, 12, 553.	2.5	4
8	Automated detection and segmentation of non-small cell lung cancer computed tomography images. <i>Nature Communications</i> , 2022, 13, .	12.8	44
9	Cycle-Consistent Generative Adversarial Network: Effect on Radiation Dose Reduction and Image Quality Improvement in Ultralow-Dose CT for Evaluation of Pulmonary Tuberculosis. <i>Korean Journal of Radiology</i> , 2021, 22, 983.	3.4	9
10	Prognostic and Predictive Value of Integrated Qualitative and Quantitative Magnetic Resonance Imaging Analysis in Glioblastoma. <i>Cancers</i> , 2021, 13, 722.	3.7	24
11	Dedicated Axillary MRI-Based Radiomics Analysis for the Prediction of Axillary Lymph Node Metastasis in Breast Cancer. <i>Cancers</i> , 2021, 13, 757.	3.7	19
12	Deep learning for the fully automated segmentation of the inner ear on MRI. <i>Scientific Reports</i> , 2021, 11, 2885.	3.3	35
13	Structural and functional radiomics for lung cancer. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2021, 48, 3961-3974.	6.4	48
14	Can predicting COVID-19 mortality in a European cohort using only demographic and comorbidity data surpass age-based prediction: An externally validated study. <i>PLoS ONE</i> , 2021, 16, e0249920.	2.5	16
15	Prognostic Assessment in High-Grade Soft-Tissue Sarcoma Patients: A Comparison of Semantic Image Analysis and Radiomics. <i>Cancers</i> , 2021, 13, 1929.	3.7	25
16	The Effects of In-Plane Spatial Resolution on CT-Based Radiomic Featuresâ€™ Stability with and without ComBat Harmonization. <i>Cancers</i> , 2021, 13, 1848.	3.7	31
17	Limitations of Only Reporting the Odds Ratio in the Age of Precision Medicine: A Deterministic Simulation Study. <i>Frontiers in Medicine</i> , 2021, 8, 640854.	2.6	5
18	Modeling-Based Decision Support System for Radical Prostatectomy Versus External Beam Radiotherapy for Prostate Cancer Incorporating an In Silico Clinical Trial and a Costâ€‘Utility Study. <i>Cancers</i> , 2021, 13, 2687.	3.7	1

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19	The application of a workflow integrating the variable reproducibility and harmonizability of radiomic features on a phantom dataset. PLoS ONE, 2021, 16, e0251147.	2.5	25
20	MRI-Based Radiomics Analysis for the Pretreatment Prediction of Pathologic Complete Tumor Response to Neoadjuvant Systemic Therapy in Breast Cancer Patients: A Multicenter Study. Cancers, 2021, 13, 2447.	3.7	20
21	Development and External Validation of Deep-Learning-Based Tumor Grading Models in Soft-Tissue Sarcoma Patients Using MR Imaging. Cancers, 2021, 13, 2866.	3.7	24
22	A Prospectively Validated Prognostic Model for Patients with Locally Advanced Squamous Cell Carcinoma of the Head and Neck Based on Radiomics of Computed Tomography Images. Cancers, 2021, 13, 3271.	3.7	12
23	Development and external validation of a non-invasive molecular status predictor of chromosome 1p/19q co-deletion based on MRI radiomics analysis of Low Grade Glioma patients. European Journal of Radiology, 2021, 139, 109678.	2.6	17
24	Reply to Orhac, F.; Buvat, I. Comment on "Abraham et al. The Effects of In-Plane Spatial Resolution on CT-Based Radiomic Features" Stability with and without ComBat Harmonization. Cancers 2021, 13, 1848	3.7	7
25	An artificial intelligence framework integrating longitudinal electronic health records with real-world data enables continuous pan-cancer prognostication. Nature Cancer, 2021, 2, 709-722.	13.2	41
26	Deciphering the glioblastoma phenotype by computed tomography radiomics. Radiotherapy and Oncology, 2021, 160, 132-139.	0.6	9
27	Exploratory Radiomic Analysis of Conventional vs. Quantitative Brain MRI: Toward Automatic Diagnosis of Early Multiple Sclerosis. Frontiers in Neuroscience, 2021, 15, 679941.	2.8	7
28	Making Radiomics More Reproducible across Scanner and Imaging Protocol Variations: A Review of Harmonization Methods. Journal of Personalized Medicine, 2021, 11, 842.	2.5	72
29	Privacy preserving distributed learning classifiers " Sequential learning with small sets of data. Computers in Biology and Medicine, 2021, 136, 104716.	7.0	12
30	Reproducibility of CT-Based Hepatocellular Carcinoma Radiomic Features across Different Contrast Imaging Phases: A Proof of Concept on SORAMIC Trial Data. Cancers, 2021, 13, 4638.	3.7	8
31	MRI-based delta-radiomics predicts pathologic complete response in high-grade soft-tissue sarcoma patients treated with neoadjuvant therapy. Radiotherapy and Oncology, 2021, 164, 73-82.	0.6	35
32	Machine learning for grading and prognosis of esophageal dysplasia using mass spectrometry and histological imaging. Computers in Biology and Medicine, 2021, 138, 104918.	7.0	12
33	Implementing Systems Modelling and Molecular Imaging to Predict the Efficacy of BCL-2 Inhibition in Colorectal Cancer Patient-Derived Xenograft Models. Cancers, 2020, 12, 2978.	3.7	8
34	Reply to "COVID-19 prediction models should adhere to methodological and reporting standards" European Respiratory Journal, 2020, 56, 2002918.	6.7	1
35	Blockchain for Privacy Preserving and Trustworthy Distributed Machine Learning in Multicentric Medical Imaging (C-DistriM). IEEE Access, 2020, 8, 183939-183951.	4.2	44
36	Diagnosis of Invasive Lung Adenocarcinoma Based on Chest CT Radiomic Features of Part-Solid Pulmonary Nodules: A Multicenter Study. Radiology, 2020, 297, 451-458.	7.3	64

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37	Non-invasive imaging prediction of tumor hypoxia: A novel developed and externally validated CT and FDG-PET-based radiomic signatures. <i>Radiotherapy and Oncology</i> , 2020, 153, 97-105.	0.6	19
38	Development of a Clinical Decision Support System for Severity Risk Prediction and Triage of COVID-19 Patients at Hospital Admission: an International Multicenter Study. <i>European Respiratory Journal</i> , 2020, 56, 2001104.	6.7	172
39	Radiomics: from qualitative to quantitative imaging. <i>British Journal of Radiology</i> , 2020, 93, 20190948.	2.2	164
40	The Emerging Role of Radiomics in COPD and Lung Cancer. <i>Respiration</i> , 2020, 99, 99-107.	2.6	33
41	Preoperative CT-based radiomics combined with intraoperative frozen section is predictive of invasive adenocarcinoma in pulmonary nodules: a multicenter study. <i>European Radiology</i> , 2020, 30, 2680-2691.	4.5	24
42	Computed tomography-derived radiomic signature of head and neck squamous cell carcinoma (peri)tumoral tissue for the prediction of locoregional recurrence and distant metastasis after concurrent chemo-radiotherapy. <i>PLoS ONE</i> , 2020, 15, e0232639.	2.5	35
43	EXTH-30. EXPANDING THE UTILITY OF PRE-CLINICAL CONTRAST ENHANCED CT (CE-CT) FOR TUMOR DETECTION IN ORTHOTOPIC GBM MODELS USING RADIOMICS. <i>Neuro-Oncology</i> , 2020, 22, ii93-ii93.	1.2	0
44	Title is missing!. , 2020, 15, e0232639.		0
45	Title is missing!. , 2020, 15, e0232639.		0
46	Title is missing!. , 2020, 15, e0232639.		0
47	Title is missing!. , 2020, 15, e0232639.		0
48	Radiomics Analysis for Clinical Decision Support in Nuclear Medicine. <i>Seminars in Nuclear Medicine</i> , 2019, 49, 438-449.	4.6	38
49	Challenges and caveats of a multi-center retrospective radiomics study: an example of early treatment response assessment for NSCLC patients using FDG-PET/CT radiomics. <i>PLoS ONE</i> , 2019, 14, e0217536.	2.5	38
50	Stability of radiomics features in apparent diffusion coefficient maps from a multi-centre test-retest trial. <i>Scientific Reports</i> , 2019, 9, 4800.	3.3	93
51	The VAMPIRE challenge: A multi-institutional validation study of CT ventilation imaging. <i>Medical Physics</i> , 2019, 46, 1198-1217.	3.0	59
52	A Deep Look Into the Future of Quantitative Imaging in Oncology: A Statement of Working Principles and Proposal for Change. <i>International Journal of Radiation Oncology Biology Physics</i> , 2018, 102, 1074-1082.	0.8	86
53	Tracking tumor biology with radiomics: A systematic review utilizing a radiomics quality score. <i>Radiotherapy and Oncology</i> , 2018, 127, 349-360.	0.6	175
54	Quantifying the reproducibility of lung ventilation images between 4-dimensional Cone Beam CT and 3-dimensional CT. <i>Medical Physics</i> , 2017, 44, 1771-1781.	3.0	8

#	ARTICLE	IF	CITATIONS
55	Radiomics: the bridge between medical imaging and personalized medicine. <i>Nature Reviews Clinical Oncology</i> , 2017, 14, 749-762.	27.6	3,216
56	Investigation of a real-time EPID-based patient dose monitoring safety system using site-specific control limits. <i>Radiation Oncology</i> , 2016, 11, 106.	2.7	33
57	Estimating lung ventilation directly from 4D CT Hounsfield unit values. <i>Medical Physics</i> , 2015, 43, 33-43.	3.0	42
58	First Experience With Real-Time EPID-Based Delivery Verification During IMRT and VMAT Sessions. <i>International Journal of Radiation Oncology Biology Physics</i> , 2015, 93, 516-522.	0.8	60
59	A system for EPID-based real-time treatment delivery verification during dynamic IMRT treatment. <i>Medical Physics</i> , 2013, 40, 091907.	3.0	34
60	Gantry-angle resolved VMAT pretreatment verification using EPID image prediction. <i>Medical Physics</i> , 2013, 40, 081715.	3.0	42
61	Diagnosis of Idiopathic Pulmonary Fibrosis in High-Resolution Computed Tomography Scans Using a Combination of Handcrafted Radiomics and Deep Learning. <i>Frontiers in Medicine</i> , 0, 9, .	2.6	8
62	Predicting Adverse Radiation Effects in Brain Tumors After Stereotactic Radiotherapy With Deep Learning and Handcrafted Radiomics. <i>Frontiers in Oncology</i> , 0, 12, .	2.8	3