

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	Radiomics: the bridge between medical imaging and personalized medicine. <i>Nature Reviews Clinical Oncology</i> , 2017, 14, 749-762.	27.6	3,216
2	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
3	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
4	Radiomics: from qualitative to quantitative imaging. <i>British Journal of Radiology</i> , 2020, 93, 20190948.	2.2	164
5	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
6	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
7	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
8	Making Radiomics More Reproducible across Scanner and Imaging Protocol Variations: A Review of Harmonization Methods. <i>Journal of Personalized Medicine</i> , 2021, 11, 842.	2.5	72
9	Diagnosis of Invasive Lung Adenocarcinoma Based on Chest CT Radiomic Features of Part-Solid Pulmonary Nodules: A Multicenter Study. <i>Radiology</i> , 2020, 297, 451-458.	7.3	64
10	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
11	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
12	The VAMPIRE challenge: A multi-institutional validation study of CT ventilation imaging. <i>Medical Physics</i> , 2019, 46, 1198-1217.	3.0	59
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	Blockchain for Privacy Preserving and Trustworthy Distributed Machine Learning in Multicentric Medical Imaging (C-DistriM). <i>IEEE Access</i> , 2020, 8, 183939-183951.	4.2	44
15	Automated detection and segmentation of non-small cell lung cancer computed tomography images. <i>Nature Communications</i> , 2022, 13, .	12.8	44
16	Gantry-angle resolved VMAT pretreatment verification using EPID image prediction. <i>Medical Physics</i> , 2013, 40, 081715.	3.0	42
17	Estimating lung ventilation directly from 4D CT Hounsfield unit values. <i>Medical Physics</i> , 2015, 43, 33-43.	3.0	42
18	An artificial intelligence framework integrating longitudinal electronic health records with real-world data enables continuous pan-cancer prognostication. <i>Nature Cancer</i> , 2021, 2, 709-722.	13.2	41

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19	Radiomics Analysis for Clinical Decision Support in Nuclear Medicine. <i>Seminars in Nuclear Medicine</i> , 2019, 49, 438-449.	4.6	38
20	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
21	Deep learning for the fully automated segmentation of the inner ear on MRI. <i>Scientific Reports</i> , 2021, 11, 2885.	3.3	35
22	MRI-based delta-radiomics predicts pathologic complete response in high-grade soft-tissue sarcoma patients treated with neoadjuvant therapy. <i>Radiotherapy and Oncology</i> , 2021, 164, 73-82.	0.6	35
23	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
24	A system for EPID-based real-time treatment delivery verification during dynamic IMRT treatment. <i>Medical Physics</i> , 2013, 40, 091907.	3.0	34
25	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
26	The Emerging Role of Radiomics in COPD and Lung Cancer. <i>Respiration</i> , 2020, 99, 99-107.	2.6	33
27	The Effects of In-Plane Spatial Resolution on CT-Based Radiomic Features'™ Stability with and without ComBat Harmonization. <i>Cancers</i> , 2021, 13, 1848.	3.7	31
28	A fully automatic artificial intelligence-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
29	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
30	The application of a workflow integrating the variable reproducibility and harmonizability of radiomic features on a phantom dataset. <i>PLoS ONE</i> , 2021, 16, e0251147.	2.5	25
31	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
32	Prognostic and Predictive Value of Integrated Qualitative and Quantitative Magnetic Resonance Imaging Analysis in Glioblastoma. <i>Cancers</i> , 2021, 13, 722.	3.7	24
33	Development and External Validation of Deep-Learning-Based Tumor Grading Models in Soft-Tissue Sarcoma Patients Using MR Imaging. <i>Cancers</i> , 2021, 13, 2866.	3.7	24
34	MRI-Based Radiomics Analysis for the Pretreatment Prediction of Pathologic Complete Tumor Response to Neoadjuvant Systemic Therapy in Breast Cancer Patients: A Multicenter Study. <i>Cancers</i> , 2021, 13, 2447.	3.7	20
35	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
36	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

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37	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. <i>European Journal of Radiology</i> , 2021, 139, 109678.	2.6	17
38	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
39	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. <i>Cancers</i> , 2021, 13, 3271.	3.7	12
40	Privacy preserving distributed learning classifiers – Sequential learning with small sets of data. <i>Computers in Biology and Medicine</i> , 2021, 136, 104716.	7.0	12
41	Machine learning for grading and prognosis of esophageal dysplasia using mass spectrometry and histological imaging. <i>Computers in Biology and Medicine</i> , 2021, 138, 104918.	7.0	12
42	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
43	Deciphering the glioblastoma phenotype by computed tomography radiomics. <i>Radiotherapy and Oncology</i> , 2021, 160, 132-139.	0.6	9
44	Quantifying the reproducibility of lung ventilation images between 4-dimensional Cone Beam CT and 4-dimensional CT. <i>Medical Physics</i> , 2017, 44, 1771-1781.	3.0	8
45	Implementing Systems Modelling and Molecular Imaging to Predict the Efficacy of BCL-2 Inhibition in Colorectal Cancer Patient-Derived Xenograft Models. <i>Cancers</i> , 2020, 12, 2978.	3.7	8
46	Reproducibility of CT-Based Hepatocellular Carcinoma Radiomic Features across Different Contrast Imaging Phases: A Proof of Concept on SORAMIC Trial Data. <i>Cancers</i> , 2021, 13, 4638.	3.7	8
47	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
48	Reply to Orhac, F.; Buvat, I. Comment on –Elbrahim et al. The Effects of In-Plane Spatial Resolution on CT-Based Radiomic Features – Stability with and without ComBat Harmonization. <i>Cancers</i> 2021, 13, 1848 – <i>Cancers</i> , 2021, 13, 3080.	3.7	7
49	Exploratory Radiomic Analysis of Conventional vs. Quantitative Brain MRI: Toward Automatic Diagnosis of Early Multiple Sclerosis. <i>Frontiers in Neuroscience</i> , 2021, 15, 679941.	2.8	7
50	Deep Learning-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
51	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
52	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
53	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
54	Improving and Externally Validating Mortality Prediction Models for COVID-19 Using Publicly Available Data. <i>BioMed</i> , 2022, 2, 13-26.	1.1	3

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55	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
56	Reply to “COVID-19 prediction models should adhere to methodological and reporting standards”. <i>European Respiratory Journal</i> , 2020, 56, 2002918.	6.7	1
57	Modeling-Based Decision Support System for Radical Prostatectomy Versus External Beam Radiotherapy for Prostate Cancer Incorporating an In Silico Clinical Trial and a Cost-Utility Study. <i>Cancers</i> , 2021, 13, 2687.	3.7	1
58	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
59	Title is missing!. , 2020, 15, e0232639.		0
60	Title is missing!. , 2020, 15, e0232639.		0
61	Title is missing!. , 2020, 15, e0232639.		0
62	Title is missing!. , 2020, 15, e0232639.		0