Ruijiang Li

List of Publications by Year
in descending order

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70 papers	3,838 citations	117453 34 h-index	128067 60 g-index
70 all docs	70 docs citations	70 times ranked	4662 citing authors

#	Article	IF	Citations
1	Development and Validation of an Individualized Immune Prognostic Signature in Early-Stage Nonsquamous Nonâ€“Small Cell Lung Cancer. JAMA Oncology, 2017, 3, 1529.	3.4	412
2	GPU-based fast cone beam CT reconstruction from undersampled and noisy projection data via total variation. Medical Physics, 2010, 37, 1757-1760.	1.6	208
3	Early-Stage Nonâ€“Small Cell Lung Cancer: Quantitative Imaging Characteristics of¹⁸F Fluorodeoxyglucose PET/CT Allow Prediction of Distant Metastasis. Radiology, 2016, 281, 270-278.	3.6	152
4	The Immune Subtypes and Landscape of Squamous Cell Carcinoma. Clinical Cancer Research, 2019, 25, 3528-3537.	3.2	136
5	Accurate Respiration Measurement Using DC-Coupled Continuous-Wave Radar Sensor for Motion-Adaptive Cancer Radiotherapy. IEEE Transactions on Biomedical Engineering, 2012, 59, 3117-3123.	2.5	135
6	Intratumor partitioning and texture analysis of dynamic contrastâ€enhanced (DCE)â€MRI identifies relevant tumor subregions to predict pathological response of breast cancer to neoadjuvant chemotherapy. Journal of Magnetic Resonance Imaging, 2016, 44, 1107-1115.	1.9	129
7	Identifying Triple-Negative Breast Cancer Using Background Parenchymal Enhancement Heterogeneity on Dynamic Contrast-Enhanced MRI: A Pilot Radiomics Study. PLoS ONE, 2015, 10, e0143308.	1.1	110
8	Realâ€time volumetric image reconstruction and 3D tumor localization based on a single xâ€ray projection image for lung cancer radiotherapy. Medical Physics, 2010, 37, 2822-2826.	1.6	105
9	Intratumoral Spatial Heterogeneity at Perfusion MR Imaging Predicts Recurrence-free Survival in Locally Advanced Breast Cancer Treated with Neoadjuvant Chemotherapy. Radiology, 2018, 288, 26-35.	3.6	102
10	Development and Validation of a Deep Learning CT Signature to Predict Survival and Chemotherapy Benefit in Gastric Cancer. Annals of Surgery, 2021, 274, e1153-e1161.	2.1	99
11	Heterogeneous Enhancement Patterns of Tumor-adjacent Parenchyma at MR Imaging Are Associated with Dysregulated Signaling Pathways and Poor Survival in Breast Cancer. Radiology, 2017, 285, 401-413.	3.6	92
12	Prognostic Imaging Biomarkers in Glioblastoma: Development and Independent Validation on the Basis of Multiregion and Quantitative Analysis of MR Images. Radiology, 2016, 278, 546-553.	3.6	90
13	On a PCA-based lung motion model. Physics in Medicine and Biology, 2011, 56, 6009-6030.	1.6	87
14	Predicting treatment response from longitudinal images using multi-task deep learning. Nature Communications, 2021, 12, 1851.	5.8	87
15	Markerless lung tumor tracking and trajectory reconstruction using rotational cone-beam projections: a feasibility study. Physics in Medicine and Biology, 2010, 55, 2505-2522.	1.6	85
16	Unsupervised Clustering of Quantitative Image Phenotypes Reveals Breast Cancer Subtypes with Distinct Prognoses and Molecular Pathways. Clinical Cancer Research, 2017, 23, 3334-3342.	3.2	80
17	Identifying relations between imaging phenotypes and molecular subtypes of breast cancer: Model discovery and external validation. Journal of Magnetic Resonance Imaging, 2017, 46, 1017-1027.	1.9	78
18	Triple attention learning for classification of 14 thoracic diseases using chest radiography. Medical Image Analysis, 2021, 67, 101846.	7.0	78

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19	4D CT sorting based on patient internal anatomy. Physics in Medicine and Biology, 2009, 54, 4821-4833.	1.6	76
20	Radiomics and radiogenomics for precision radiotherapy. Journal of Radiation Research, 2018, 59, i25-i31.	0.8	74
21	Robust Intratumor Partitioning to Identify High-Risk Subregions in Lung Cancer: A Pilot Study. International Journal of Radiation Oncology Biology Physics, 2016, 95, 1504-1512.	0.4	71
22	4D cone beam CT via spatiotemporal tensor framelet. Medical Physics, 2012, 39, 6943-6946.	1.6	66
23	Noninvasive Prediction of Occult Peritoneal Metastasis in Gastric Cancer Using Deep Learning. JAMA Network Open, 2021, 4, e2032269.	2.8	58
24	Patientâ€specific motion artifacts in 4DCT. Medical Physics, 2010, 37, 2855-2861.	1.6	56
25	Optimization approaches to volumetric modulated arc therapy planning. Medical Physics, 2015, 42, 1367-1377.	1.6	56
26	Natural killer cell and stroma abundance are independently prognostic and predict gastric cancer chemotherapy benefit. JCI Insight, 2020, 5, .	2.3	50
27	Integrating Radiosensitivity and Immune Gene Signatures for Predicting Benefit of Radiotherapy in Breast Cancer. Clinical Cancer Research, 2018, 24, 4754-4762.	3.2	48
28	GPU-based fast low-dose cone beam CT reconstruction via total variation. Journal of X-Ray Science and Technology, 2011, 19, 139-154.	0.7	46
29	An adaptive planning strategy for station parameter optimized radiation therapy (SPORT): Segmentally boosted VMAT. Medical Physics, 2013, 40, 050701.	1.6	45
30	Predicting peritoneal recurrence and disease-free survival from CT images in gastric cancer with multitask deep learning: a retrospective study. The Lancet Digital Health, 2022, 4, e340-e350.	5.9	45
31	Quantitative Analysis of 18F-Fluorodeoxyglucose Positron Emission Tomography Identifies Novel Prognostic Imaging Biomarkers in Locally Advanced Pancreatic Cancer Patients Treated With Stereotactic Body Radiation Therapy. International Journal of Radiation Oncology Biology Physics, 2016, 96, 102-109.	0.4	44
32	Magnetic resonance imaging and molecular features associated with tumor-infiltrating lymphocytes in breast cancer. Breast Cancer Research, 2018, 20, 101.	2.2	44
33	Volume of high-risk intratumoral subregions at multi-parametric MR imaging predicts overall survival and complements molecular analysis of glioblastoma. European Radiology, 2017, 27, 3583-3592.	2.3	43
34	Radiological tumour classification across imaging modality and histology. Nature Machine Intelligence, 2021, 3, 787-798.	8.3	41
35	Incorporating prior biological knowledge for network-based differential gene expression analysis using differentially weighted graphical LASSO. BMC Bioinformatics, 2017, 18, 99.	1.2	40
36	A Bayesian approach to realâ€time 3D tumor localization via monoscopic xâ€ray imaging during treatment delivery. Medical Physics, 2011, 38, 4205-4214.	1.6	38

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37	Evaluation of the geometric accuracy of surrogateâ€based gated VMAT using intrafraction kilovoltage xâ€ray images. Medical Physics, 2012, 39, 2686-2693.	1.6	35
38	Integrated imaging and molecular analysis to decipher tumor microenvironment in the era of immunotherapy. Seminars in Cancer Biology, 2022, 84, 310-328.	4.3	34
39	A feasibility study of markerless fluoroscopic gating for lung cancer radiotherapy using 4DCT templates. Physics in Medicine and Biology, 2009, 54, N489-N500.	1.6	33
40	Clinical Implementation of Intrafraction Cone Beam Computed Tomography Imaging During Lung Tumor Stereotactic Ablative Radiation Therapy. International Journal of Radiation Oncology Biology Physics, 2013, 87, 917-923.	0.4	32
41	Early response evaluation using primary tumor and nodal imaging features to predict progression-free survival of locally advanced non-small cell lung cancer. Theranostics, 2020, 10, 11707-11718.	4.6	32
42	Bridging the gap between IMRT and VMAT: Dense angularly sampled and sparse intensity modulated radiation therapy. Medical Physics, 2011, 38, 4912-4919.	1.6	30
43	Prognostic value of midtreatment FDGâ€PET in oropharyngeal cancer. Head and Neck, 2016, 38, 1472-1478.	0.9	29
44	Radiographical assessment of tumour stroma and treatment outcomes using deep learning: a retrospective, multicohort study. The Lancet Digital Health, 2021, 3, e371-e382.	5.9	29
45	INDEED: Integrated differential expression and differential network analysis of omic data for biomarker discovery. Methods, 2016, 111, 12-20.	1.9	28
46	Intrafraction Verification of Gated RapidArc by Using Beam-Level Kilovoltage X-Ray Images. International Journal of Radiation Oncology Biology Physics, 2012, 83, e709-e715.	0.4	27
47	Tumor Subregion Evolution-Based Imaging Features to Assess Early Response and Predict Prognosis in Oropharyngeal Cancer. Journal of Nuclear Medicine, 2020, 61, 327-336.	2.8	27
48	Assessing the Dosimetric Impact of Real-Time Prostate Motion During Volumetric Modulated Arc Therapy. International Journal of Radiation Oncology Biology Physics, 2014, 88, 1167-1174.	0.4	24
49	An initial study on the estimation of timeâ€varying volumetric treatment images and 3D tumor localization from single MV cine EPID images. Medical Physics, 2014, 41, 081713.	1.6	23
50	Integrating Tumor and Nodal Imaging Characteristics at Baseline and Mid-Treatment Computed Tomography Scans to Predict Distant Metastasis in Oropharyngeal Cancer Treated With Concurrent Chemoradiotherapy. International Journal of Radiation Oncology Biology Physics, 2019, 104, 942-952.	0.4	23
51	Evaluation of 3D fluoroscopic image generation from a single planar treatment image on patient data with a modified XCAT phantom. Physics in Medicine and Biology, 2013, 58, 841-858.	1.6	22
52	Single-Cell Spatial Analysis of Tumor and Immune Microenvironment on Whole-Slide Image Reveals Hepatocellular Carcinoma Subtypes. Cancers, 2020, 12, 3562.	1.7	21
53	A Quantitative CT Imaging Signature Predicts Survival and Complements Established Prognosticators in Stage I Non-Small Cell Lung Cancer. International Journal of Radiation Oncology Biology Physics, 2018, 102, 1098-1106.	0.4	20
54	First study of onâ€treatment volumetric imaging during respiratory gated VMAT. Medical Physics, 2013, 40, 040701.	1.6	18

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55	Prognostic value and molecular correlates of a CT image-based quantitative pleural contact index in early stage NSCLC. European Radiology, 2018, 28, 736-746.	2.3	17
56	Mitigation of motion artifacts in CBCT of lung tumors based on tracked tumor motion during CBCT acquisition. Physics in Medicine and Biology, 2011, 56, 5485-5502.	1.6	16
57	Simultaneous beam sampling and aperture shape optimization for SPORT. Medical Physics, 2015, 42, 1012-1022.	1.6	15
58	Accuracy of surface registration compared to conventional volumetric registration in patient positioning for headâ€andâ€neck radiotherapy: A simulation study using patient data. Medical Physics, 2014, 41, 121701.	1.6	14
59	Real-time tumor motion estimation using respiratory surrogate via memory-based learning. Physics in Medicine and Biology, 2012, 57, 4771-4786.	1.6	13
60	Automatic multiorgan segmentation in CT images of the male pelvis using regionâ€specific hierarchical appearance cluster models. Medical Physics, 2016, 43, 5426-5436.	1.6	11
61	Robust Estimation of Electron Density From Anatomic Magnetic Resonance Imaging of the Brain Using a Unifying Multi-Atlas Approach. International Journal of Radiation Oncology Biology Physics, 2017, 97, 849-857.	0.4	11
62	Nonisocentric Treatment Strategy for Breast Radiation Therapy: A Proof of Concept Study. International Journal of Radiation Oncology Biology Physics, 2014, 88, 920-926.	0.4	9
63	Integrating Imaging, Histologic, and Genetic Features to Predict Tumor Mutation Burden of Nonâ€“Small-Cell Lung Cancer. Clinical Lung Cancer, 2020, 21, e151-e163.	1.1	9
64	Predicting metastasis in clinically negative axillary lymph nodes with minimum apparent diffusion coefficient value in luminal A-like breast cancer. Breast Cancer, 2019, 26, 628-636.	1.3	8
65	Peritumoral Radiomics and Predicting Treatment Response. JAMA Network Open, 2020, 3, e2016125.	2.8	7
66	B cell-related gene signature and cancer immunotherapy response. British Journal of Cancer, 2022, 126, 899-906.	2.9	7
67	Comprehensive Analysis of the Unfolded Protein Response in Breast Cancer Subtypes. JCO Precision Oncology, 2017, 2017, 1-9.	1.5	6
68	Tensor framelet based iterative image reconstruction algorithm for low-dose multislice helical CT. PLoS ONE, 2019, 14, e0210410.	1.1	2
69	3D Bayesian Tracking with a Single Imager for Real-Time Image Guidance in Prostate Radiation Therapy. , 2011, , .		0
70	Decentralized Learning Framework of Meta-Survival Analysis for Developing Robust Prognostic Signatures. JCO Clinical Cancer Informatics, 2017, 1, 1-13.	1.0	0