

# Zhenyu Liu

## List of Publications by Year in descending order

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109  
papers

5,975  
citations

76326

40  
h-index

82547

72  
g-index

110  
all docs

110  
docs citations

110  
times ranked

6288  
citing authors

#	ARTICLE	IF	CITATIONS
1	The Applications of Radiomics in Precision Diagnosis and Treatment of Oncology: Opportunities and Challenges. <i>Theranostics</i> , 2019, 9, 1303-1322.	10.0	554
2	Radiomics Analysis for Evaluation of Pathological Complete Response to Neoadjuvant Chemoradiotherapy in Locally Advanced Rectal Cancer. <i>Clinical Cancer Research</i> , 2017, 23, 7253-7262.	7.0	410
3	Central focused convolutional neural networks: Developing a data-driven model for lung nodule segmentation. <i>Medical Image Analysis</i> , 2017, 40, 172-183.	11.6	352
4	Predicting EGFR mutation status in lung adenocarcinoma on computed tomography image using deep learning. <i>European Respiratory Journal</i> , 2019, 53, 1800986.	6.7	298
5	Radiomics of Multiparametric MRI for Pretreatment Prediction of Pathologic Complete Response to Neoadjuvant Chemotherapy in Breast Cancer: A Multicenter Study. <i>Clinical Cancer Research</i> , 2019, 25, 3538-3547.	7.0	293
6	The Role of Imaging in the Detection and Management of COVID-19: A Review. <i>IEEE Reviews in Biomedical Engineering</i> , 2021, 14, 16-29.	18.0	273
7	Can CT-based radiomics signature predict KRAS/NRAS/BRAF mutations in colorectal cancer?. <i>European Radiology</i> , 2018, 28, 2058-2067.	4.5	177
8	Radiomic signature as a diagnostic factor for histologic subtype classification of non-small cell lung cancer. <i>European Radiology</i> , 2018, 28, 2772-2778.	4.5	160
9	A New Approach to Predict Progression-free Survival in Stage IV EGFR-mutant NSCLC Patients with EGFR-TKI Therapy. <i>Clinical Cancer Research</i> , 2018, 24, 3583-3592.	7.0	151
10	Radiomic nomogram for prediction of axillary lymph node metastasis in breast cancer. <i>European Radiology</i> , 2019, 29, 3820-3829.	4.5	136
11	Altered topological patterns of brain networks in mild cognitive impairment and Alzheimer's disease: A resting-state fMRI study. <i>Psychiatry Research - Neuroimaging</i> , 2012, 202, 118-125.	1.8	130
12	2D and 3D CT Radiomics Features Prognostic Performance Comparison in Non-Small Cell Lung Cancer. <i>Translational Oncology</i> , 2017, 10, 886-894.	3.7	130
13	Deep learning provides a new computed tomography-based prognostic biomarker for recurrence prediction in high-grade serous ovarian cancer. <i>Radiotherapy and Oncology</i> , 2019, 132, 171-177.	0.6	113
14	Acupuncture Modulates Temporal Neural Responses in Wide Brain Networks: Evidence from fMRI Study. <i>Molecular Pain</i> , 2010, 6, 1744-8069-6-73.	2.1	102
15	Predicting distant metastasis and chemotherapy benefit in locally advanced rectal cancer. <i>Nature Communications</i> , 2020, 11, 4308.	12.8	98
16	Building CT Radiomics Based Nomogram for Preoperative Esophageal Cancer Patients Lymph Node Metastasis Prediction. <i>Translational Oncology</i> , 2018, 11, 815-824.	3.7	93
17	Development and validation of a radiopathomics model to predict pathological complete response to neoadjuvant chemoradiotherapy in locally advanced rectal cancer: a multicentre observational study. <i>The Lancet Digital Health</i> , 2022, 4, e8-e17.	12.3	91
18	Radiomics-Based Pretherapeutic Prediction of Non-response to Neoadjuvant Therapy in Locally Advanced Rectal Cancer. <i>Annals of Surgical Oncology</i> , 2019, 26, 1676-1684.	1.5	77

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19	A multi-view deep convolutional neural networks for lung nodule segmentation. , 2017, 2017, 1752-1755.		72
20	Radiomics analysis of magnetic resonance imaging improves diagnostic performance of lymph node metastasis in patients with cervical cancer. Radiotherapy and Oncology, 2019, 138, 141-148.	0.6	71
21	Radiomic analysis for pretreatment prediction of response to neoadjuvant chemotherapy in locally advanced cervical cancer: A multicentre study. EBioMedicine, 2019, 46, 160-169.	6.1	69
22	Radiomics analysis allows for precise prediction of epilepsy in patients with low-grade gliomas. NeuroImage: Clinical, 2018, 19, 271-278.	2.7	67
23	A radiomics model for preoperative prediction of brain invasion in meningioma non-invasively based on MRI: A multicentre study. EBioMedicine, 2020, 58, 102933.	6.1	66
24	Multiparametric MRI-based radiomics analysis for prediction of breast cancers insensitive to neoadjuvant chemotherapy. Clinical and Translational Oncology, 2020, 22, 50-59.	2.4	65
25	The MR radiomic signature can predict preoperative lymph node metastasis in patients with esophageal cancer. European Radiology, 2019, 29, 906-914.	4.5	64
26	Non-invasive genotype prediction of chromosome 1p/19q co-deletion by development and validation of an MRI-based radiomics signature in lower-grade gliomas. Journal of Neuro-Oncology, 2018, 140, 297-306.	2.9	62
27	Altered Amplitude of Low-Frequency Fluctuation in Primary Open-Angle Glaucoma: A Resting-State fMRI Study. Investigative Ophthalmology and Visual Science, 2015, 56, 322-329.	3.3	61
28	Diagnosis of Distant Metastasis of Lung Cancer: Based on Clinical and Radiomic Features. Translational Oncology, 2018, 11, 31-36.	3.7	61
29	Association of MRI-derived radiomic biomarker with disease-free survival in patients with early-stage cervical cancer. Theranostics, 2020, 10, 2284-2292.	10.0	57
30	Investigation of the effective connectivity of resting state networks in Alzheimer's disease: a functional MRI study combining independent components analysis and multivariate Granger causality analysis. NMR in Biomedicine, 2012, 25, 1311-1320.	2.8	56
31	Classification of Unmedicated Bipolar Disorder Using Whole-Brain Functional Activity and Connectivity: A Radiomics Analysis. Cerebral Cortex, 2020, 30, 1117-1128.	2.9	52
32	Deep learning radiomics of ultrasonography: Identifying the risk of axillary non-sentinel lymph node involvement in primary breast cancer. EBioMedicine, 2020, 60, 103018.	6.1	52
33	Development of a Deep Learning Model to Identify Lymph Node Metastasis on Magnetic Resonance Imaging in Patients With Cervical Cancer. JAMA Network Open, 2020, 3, e2011625.	5.9	51
34	MR-based radiomics signature in differentiating ocular adnexal lymphoma from idiopathic orbital inflammation. European Radiology, 2018, 28, 3872-3881.	4.5	50
35	Investigation of the large-scale functional brain networks modulated by acupuncture. Magnetic Resonance Imaging, 2011, 29, 958-965.	1.8	49
36	Deep learning radiomics-based prediction of distant metastasis in patients with locally advanced rectal cancer after neoadjuvant chemoradiotherapy: A multicentre study. EBioMedicine, 2021, 69, 103442.	6.1	49

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37	White matter degeneration in subjective cognitive decline: a diffusion tensor imaging study. <i>Oncotarget</i> , 2016, 7, 54405-54414.	1.8	49
38	Automated detection of hippocampal sclerosis using clinically empirical and radiomics features. <i>Epilepsia</i> , 2019, 60, 2519-2529.	5.1	47
39	Manipulation of and Sustained Effects on the Human Brain Induced by Different Modalities of Acupuncture: An fMRI Study. <i>PLoS ONE</i> , 2013, 8, e66815.	2.5	46
40	Identifying the white matter impairments among ART-naïve HIV patients: a multivariate pattern analysis of DTI data. <i>European Radiology</i> , 2017, 27, 4153-4162.	4.5	46
41	Radiomic analysis of multiparametric magnetic resonance imaging for differentiating skull base chordoma and chondrosarcoma. <i>European Journal of Radiology</i> , 2019, 118, 81-87.	2.6	45
42	A Computed Tomography-Based Radiomic Prognostic Marker of Advanced High-Grade Serous Ovarian Cancer Recurrence: A Multicenter Study. <i>Frontiers in Oncology</i> , 2019, 9, 255.	2.8	44
43	Grading of Gliomas by Using Radiomic Features on Multiple Magnetic Resonance Imaging (MRI) Sequences. <i>Medical Science Monitor</i> , 2017, 23, 2168-2178.	1.1	43
44	A Non-invasive Radiomic Method Using 18F-FDG PET Predicts Isocitrate Dehydrogenase Genotype and Prognosis in Patients With Glioma. <i>Frontiers in Oncology</i> , 2019, 9, 1183.	2.8	41
45	Modulatory effects of acupuncture on resting-state networks: A functional MRI study combining independent component analysis and multivariate granger causality analysis. <i>Journal of Magnetic Resonance Imaging</i> , 2012, 35, 572-581.	3.4	39
46	Gray and white matter alterations in early HIV-infected patients: Combined voxel-based morphometry and tract-based spatial statistics. <i>Journal of Magnetic Resonance Imaging</i> , 2016, 43, 1474-1483.	3.4	39
47	Multiparametric MRI and Whole Slide Image-Based Pretreatment Prediction of Pathological Response to Neoadjuvant Chemoradiotherapy in Rectal Cancer: A Multicenter Radiopathomic Study. <i>Annals of Surgical Oncology</i> , 2020, 27, 4296-4306.	1.5	37
48	Exploring the Patterns of Acupuncture on Mild Cognitive Impairment Patients Using Regional Homogeneity. <i>PLoS ONE</i> , 2014, 9, e99335.	2.5	36
49	Radiomics-Based Preoperative Prediction of Lymph Node Status Following Neoadjuvant Therapy in Locally Advanced Rectal Cancer. <i>Frontiers in Oncology</i> , 2020, 10, 604.	2.8	34
50	18F-FDG-PET-based Radiomics signature predicts MGMT promoter methylation status in primary diffuse glioma. <i>Cancer Imaging</i> , 2019, 19, 58.	2.8	32
51	Radiomics analysis of placenta on T2WI facilitates prediction of postpartum haemorrhage: A multicentre study. <i>EBioMedicine</i> , 2019, 50, 355-365.	6.1	32
52	Mammography-based radiomic analysis for predicting benign BI-RADS category 4 calcifications. <i>European Journal of Radiology</i> , 2019, 121, 108711.	2.6	31
53	Development and validation of an MRI-based radiomic signature for the preoperative prediction of treatment response in patients with invasive functional pituitary adenoma. <i>European Journal of Radiology</i> , 2019, 121, 108647.	2.6	30
54	Differentiation of atypical non-functional pancreatic neuroendocrine tumor and pancreatic ductal adenocarcinoma using CT based radiomics. <i>European Journal of Radiology</i> , 2019, 117, 102-111.	2.6	29

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55	Prediction of Response to Preoperative Neoadjuvant Chemotherapy in Locally Advanced Cervical Cancer Using Multicenter CT-Based Radiomic Analysis. <i>Frontiers in Oncology</i> , 2020, 10, 77.	2.8	29
56	Quantitative analysis of diffusion weighted imaging to predict pathological good response to neoadjuvant chemoradiation for locally advanced rectal cancer. <i>Radiotherapy and Oncology</i> , 2019, 132, 100-108.	0.6	26
57	Altered Hub Configurations within Default Mode Network following Acupuncture at ST36: A Multimodal Investigation Combining fMRI and MEG. <i>PLoS ONE</i> , 2013, 8, e64509.	2.5	24
58	Multiparametric MRI-based radiomics analysis for the prediction of breast tumor regression patterns after neoadjuvant chemotherapy. <i>Translational Oncology</i> , 2020, 13, 100831.	3.7	24
59	Deep learning algorithm to improve hypertrophic cardiomyopathy mutation prediction using cardiac cine images. <i>European Radiology</i> , 2021, 31, 3931-3940.	4.5	24
60	Radiologist-like artificial intelligence for grade group prediction of radical prostatectomy for reducing upgrading and downgrading from biopsy. <i>Theranostics</i> , 2020, 10, 10200-10212.	10.0	22
61	Hypothalamus-Related Resting Brain Network Underlying Short-Term Acupuncture Treatment in Primary Hypertension. <i>Evidence-based Complementary and Alternative Medicine</i> , 2013, 2013, 1-9.	1.2	21
62	Radiomic signature: A novel magnetic resonance imaging-based prognostic biomarker in patients with skull base chordoma. <i>Radiotherapy and Oncology</i> , 2019, 141, 239-246.	0.6	21
63	Radiomics signature based on FDG-PET predicts proliferative activity in primary glioma. <i>Clinical Radiology</i> , 2019, 74, 815.e15-815.e23.	1.1	20
64	Predicting the Type of Tumor-Related Epilepsy in Patients With Low-Grade Gliomas: A Radiomics Study. <i>Frontiers in Oncology</i> , 2020, 10, 235.	2.8	19
65	Deep Learning with Quantitative Features of Magnetic Resonance Images to Predict Biochemical Recurrence of Radical Prostatectomy: A Multi-Center Study. <i>Cancers</i> , 2021, 13, 3098.	3.7	19
66	3D Deep Learning Model for the Pretreatment Evaluation of Treatment Response in Esophageal Carcinoma: A Prospective Study (ChiCTR2000039279). <i>International Journal of Radiation Oncology Biology Physics</i> , 2021, 111, 926-935.	0.8	19
67	Radiomics Analysis of DTI Data to Assess Vision Outcome After Intravenous Methylprednisolone Therapy in Neuromyelitis Optic Neuritis. <i>Journal of Magnetic Resonance Imaging</i> , 2019, 49, 1365-1373.	3.4	18
68	Neural specificity of acupuncture stimulation from support vector machine classification analysis. <i>Magnetic Resonance Imaging</i> , 2011, 29, 943-950.	1.8	17
69	Investigation of acupoint specificity by multivariate granger causality analysis from functional MRI data. <i>Journal of Magnetic Resonance Imaging</i> , 2011, 34, 31-42.	3.4	17
70	Unsupervised Deep Learning Features for Lung Cancer Overall Survival Analysis. , 2018, 2018, 2583-2586.		16
71	Selection Between Liver Resection Versus Transarterial Chemoembolization in Hepatocellular Carcinoma: A Multicenter Study. <i>Clinical and Translational Gastroenterology</i> , 2019, 10, e00070.	2.5	16
72	Deep learning with whole slide images can improve the prognostic risk stratification with stage III colorectal cancer. <i>Computer Methods and Programs in Biomedicine</i> , 2022, 221, 106914.	4.7	16

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73	Identification of Cognitive Dysfunction in Patients with T2DM Using Whole Brain Functional Connectivity. <i>Genomics, Proteomics and Bioinformatics</i> , 2019, 17, 441-452.	6.9	14
74	Exploring the effective connectivity of resting state networks in Mild Cognitive Impairment: An fMRI study combining ICA and multivariate Granger causality analysis. , 2012, 2012, 5454-7.		13
75	The role of insula-cerebellum connection underlying aversive regulation with acupuncture. <i>Molecular Pain</i> , 2018, 14, 174480691878345.	2.1	13
76	The pathological risk score: A new deep learning-based signature for predicting survival in cervical cancer. <i>Cancer Medicine</i> , 2023, 12, 1051-1063.	2.8	13
77	Neuroimaging Phenotyping and Assessment of Structural-Metabolic-Electrophysiological Alterations in the Temporal Neocortex of Focal Cortical Dysplasia <scp>IIIa</scp>. <i>Journal of Magnetic Resonance Imaging</i> , 2021, 54, 925-935.	3.4	12
78	Longitudinal assessment of fractional anisotropy alterations caused by simian immunodeficiency virus infection: a preliminary diffusion tensor imaging study. <i>Journal of NeuroVirology</i> , 2016, 22, 231-239.	2.1	11
79	Interaction of acupuncture treatment and manipulation laterality modulated by the default mode network. <i>Molecular Pain</i> , 2017, 13, 174480691668368.	2.1	11
80	Radiomics Analysis of Postoperative Epilepsy Seizures in Low-Grade Gliomas Using Preoperative MR Images. <i>Frontiers in Oncology</i> , 2020, 10, 1096.	2.8	11
81	Acupuncture Induces Divergent Alterations of Functional Connectivity within Conventional Frequency Bands: Evidence from MEG Recordings. <i>PLoS ONE</i> , 2012, 7, e49250.	2.5	10
82	Preoperative prediction of peritoneal metastasis in colorectal cancer using a clinical-radiomics model. <i>European Journal of Radiology</i> , 2020, 132, 109326.	2.6	10
83	Amplitude of low frequency fluctuation in primary open angle glaucoma: A resting state fMRI study. , 2014, 2014, 6706-9.		9
84	A two-center radiomic analysis for differentiating major depressive disorder using multi-modality MRI data under different parcellation methods. <i>Journal of Affective Disorders</i> , 2022, 300, 1-9.	4.1	9
85	Radiomics: a Novel CT-Based Method of Predicting Postoperative Recurrence in Ovarian Cancer. , 2018, 2018, 4130-4133.		8
86	Patient-level Prediction of Multi-classification Task at Prostate MRI based on End-to-End Framework learning from Diagnostic Logic of Radiologists. <i>IEEE Transactions on Biomedical Engineering</i> , 2021, 68, 1-1.	4.2	8
87	Differential neural responses to acupuncture revealed by MEG using wavelet-based time-frequency analysis: A pilot study. , 2011, 2011, 7099-102.		7
88	Radiomic signature-based nomogram to predict disease-free survival in stage II and III colon cancer. <i>European Journal of Radiology</i> , 2020, 131, 109205.	2.6	7
89	Gene signatures predict biochemical recurrence-free survival in primary prostate cancer patients after radical therapy. <i>Cancer Medicine</i> , 2021, 10, 6492-6502.	2.8	7
90	A deep learning radiomics analysis for identifying sinus invasion in patients with meningioma before operation using tumor and peritumoral regions. <i>European Journal of Radiology</i> , 2022, 149, 110187.	2.6	7

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91	Radiomics in Medical Imaging – Detection, Extraction and Segmentation. Intelligent Systems Reference Library, 2018, , 267-333.	1.2	4
92	Dysfunctional whole brain networks in mild cognitive impairment patients: an fMRI study. Proceedings of SPIE, 2012, , .	0.8	2
93	A Novel MRI-Based Radiomics Model for Predicting Recurrence in Chordoma. , 2018, 2018, 139-142.		2
94	AI in spotting high-risk characteristics of medical imaging and molecular pathology. Precision Clinical Medicine, 2021, 4, 271-286.	3.3	2
95	A multivariate pattern analysis study of the HIV-related white matter anatomical structural connections alterations. , 2017, , .		1
96	Semi-automated enhanced breast tumor segmentation for CT image. , 2017, 2017, 648-651.		1
97	Key technologies and software platforms for radiomics. , 2021, , 19-98.		1
98	The Role of Imaging in the Detection and Management of COVID-19: A Review. , 0, .		1
99	Abstract 2014: Radiopathomics strategy combining multiparametric MRI with whole-slide image for pretreatment prediction of tumor regression grade to neoadjuvant chemoradiotherapy in rectal cancer. , 2020, , .		1
100	Differential spatial activity patterns of acupuncture by a machine learning based analysis. Proceedings of SPIE, 2011, , .	0.8	0
101	Differential spectral power alteration following acupuncture at different designated places revealed by magnetoencephalography. , 2012, , .		0
102	Tractography of white matter based on diffusion tensor imaging in ischaemic stroke involving the corticospinal tract: a preliminary study. , 2012, , .		0
103	Treatment evaluation and prognosis prediction using radiomics in clinical practice. , 2021, , 175-264.		0
104	Precision diagnosis based on radiomics. , 2021, , 99-174.		0
105	Identifying cognitive impairment in type 2 diabetes with functional connectivity: a multivariate pattern analysis of resting state fMRI data. Proceedings of SPIE, 2017, , .	0.8	0
106	Radiomics analysis of DWI data to identify the rectal cancer patients qualified for local excision after neoadjuvant chemoradiotherapy. , 2018, , .		0
107	Radiomics analysis on T2-MR image to predict lymphovascular space invasion in cervical cancer. , 2019, , .		0
108	Abstract P1-10-29: Radiomics improved pre-therapeutic prediction of breast cancers insensitive to neoadjuvant chemotherapy. , 2020, , .		0

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109	Identifying sinus invasion in meningioma patients before surgery with deep learning. , 2022, , .		0