Zhenyu Liu

List of Publications by Year
in descending order

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 pathological risk score: A new deep learning–based signature for predicting survival in cervical cancer. Cancer Medicine, 2023, 12, 1051-1063.	2.8	13
2	A two-center radiomic analysis for differentiating major depressive disorder using multi-modality MRI data under different parcellation methods. Journal of Affective Disorders, 2022, 300, 1-9.	4.1	9
3	Development and validation of a radiopathomics model to predict pathological complete response to neoadjuvant chemoradiotherapy in locally advanced rectal cancer: a multicentre observational study. The Lancet Digital Health, 2022, 4, e8-e17.	12.3	91
4	A deep learning radiomics analysis for identifying sinus invasion in patients with meningioma before operation using tumor and peritumoral regions. European Journal of Radiology, 2022, 149, 110187.	2.6	7
5	Identifying sinus invasion in meningioma patients before surgery with deep learning. , 2022, , .		0
6	Deep learning with whole slide images can improve the prognostic risk stratification with stage III colorectal cancer. Computer Methods and Programs in Biomedicine, 2022, 221, 106914.	4.7	16
7	The Role of Imaging in the Detection and Management of COVID-19: A Review. IEEE Reviews in Biomedical Engineering, 2021, 14, 16-29.	18.0	273
8	Deep learning algorithm to improve hypertrophic cardiomyopathy mutation prediction using cardiac cine images. European Radiology, 2021, 31, 3931-3940.	4.5	24
9	Key technologies and software platforms for radiomics. , 2021, , 19-98.		1
10	Patient-level Prediction of Multi-classification Task at Prostate MRI based on End-to-End Framework learning from Diagnostic Logic of Radiologists. IEEE Transactions on Biomedical Engineering, 2021, 68, 1-1.	4.2	8
11	Treatment evaluation and prognosis prediction using radiomics in clinical practice. , 2021, , 175-264.		0
12	Precision diagnosis based on radiomics. , 2021, , 99-174.		0
13	Neuroimaging Phenotyping and Assessment of Structural–Metabolic–Electrophysiological Alterations in the Temporal Neocortex of Focal Cortical Dysplasia IIIa. Journal of Magnetic Resonance Imaging, 2021, 54, 925-935.	3.4	12
14	Deep Learning with Quantitative Features of Magnetic Resonance Images to Predict Biochemical Recurrence of Radical Prostatectomy: A Multi-Center Study. Cancers, 2021, 13, 3098.	3.7	19
15	3D Deep Learning Model for the Pretreatment Evaluation of Treatment Response in Esophageal Carcinoma: A Prospective Study (ChiCTR2000039279). International Journal of Radiation Oncology Biology Physics, 2021, 111, 926-935.	0.8	19
16	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
17	Gene signatures predict biochemical recurrence–free survival in primary prostate cancer patients after radical therapy. Cancer Medicine, 2021, 10, 6492-6502.	2.8	7
18	AI in spotting high-risk characteristics of medical imaging and molecular pathology. Precision Clinical Medicine, 2021, 4, 271-286.	3.3	2

#	Article	IF	Citations
19	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
20	Classification of Unmedicated Bipolar Disorder Using Whole-Brain Functional Activity and Connectivity: A Radiomics Analysis. Cerebral Cortex, 2020, 30, 1117-1128.	2.9	52
21	Radiomic signature-based nomogram to predict disease-free survival in stage II and III colon cancer. European Journal of Radiology, 2020, 131, 109205.	2.6	7
22	Preoperative prediction of peritoneal metastasis in colorectal cancer using a clinical-radiomics model. European Journal of Radiology, 2020, 132, 109326.	2.6	10
23	Radiomics Analysis of Postoperative Epilepsy Seizures in Low-Grade Gliomas Using Preoperative MR Images. Frontiers in Oncology, 2020, 10, 1096.	2.8	11
24	Multiparametric MRI-based radiomics analysis for the prediction of breast tumor regression patterns after neoadjuvant chemotherapy. Translational Oncology, 2020, 13, 100831.	3.7	24
25	Multiparametric MRI and Whole Slide Image-Based Pretreatment Prediction of Pathological Response to Neoadjuvant Chemoradiotherapy in Rectal Cancer: A Multicenter Radiopathomic Study. Annals of Surgical Oncology, 2020, 27, 4296-4306.	1.5	37
26	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
27	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
28	Predicting distant metastasis and chemotherapy benefit in locally advanced rectal cancer. Nature Communications, 2020, 11, 4308.	12.8	98
29	Radiomics-Based Preoperative Prediction of Lymph Node Status Following Neoadjuvant Therapy in Locally Advanced Rectal Cancer. Frontiers in Oncology, 2020, 10, 604.	2.8	34
30	Prediction of Response to Preoperative Neoadjuvant Chemotherapy in Locally Advanced Cervical Cancer Using Multicenter CT-Based Radiomic Analysis. Frontiers in Oncology, 2020, 10, 77.	2.8	29
31	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
32	Predicting the Type of Tumor-Related Epilepsy in Patients With Low-Grade Gliomas: A Radiomics Study. Frontiers in Oncology, 2020, 10, 235.	2.8	19
33	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
34	Radiologist-like artificial intelligence for grade group prediction of radical prostatectomy for reducing upgrading and downgrading from biopsy. Theranostics, 2020, 10, 10200-10212.	10.0	22
35	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
36	Abstract P1-10-29: Radiomics improved pre-therapeutic prediction of breast cancers insensitive to neoadjuvant chemotherapy. , 2020, , .		0

#	Article	IF	Citations
37	The MR radiomic signature can predict preoperative lymph node metastasis in patients with esophageal cancer. European Radiology, 2019, 29, 906-914.	4.5	64
38	Radiomics signature based on FDG-PET predicts proliferative activity in primary glioma. Clinical Radiology, 2019, 74, 815.e15-815.e23.	1.1	20
39	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
40	18F-FDG-PET-based Radiomics signature predicts MGMT promoter methylation status in primary diffuse glioma. Cancer Imaging, 2019, 19, 58.	2.8	32
41	Radiomic analysis of multiparametric magnetic resonance imaging for differentiating skull base chordoma and chondrosarcoma. European Journal of Radiology, 2019, 118, 81-87.	2.6	45
42	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
43	Development and validation of an MRI-based radiomic signature for the preoperative prediction of treatment response in patients with invasive functional pituitary adenoma. European Journal of Radiology, 2019, 121, 108647.	2.6	30
44	Radiomic signature: A novel magnetic resonance imaging-based prognostic biomarker in patients with skull base chordoma. Radiotherapy and Oncology, 2019, 141, 239-246.	0.6	21
45	Mammography-based radiomic analysis for predicting benign BI-RADS category 4 calcifications. European Journal of Radiology, 2019, 121, 108711.	2.6	31
46	Predicting EGFR mutation status in lung adenocarcinoma on computed tomography image using deep learning. European Respiratory Journal, 2019, 53, 1800986.	6.7	298
47	Quantitative analysis of diffusion weighted imaging to predict pathological good response to neoadjuvant chemoradiation for locally advanced rectal cancer. Radiotherapy and Oncology, 2019, 132, 100-108.	0.6	26
48	Radiomic nomogram for prediction of axillary lymph node metastasis in breast cancer. European Radiology, 2019, 29, 3820-3829.	4.5	136
49	Differentiation of atypical non-functional pancreatic neuroendocrine tumor and pancreatic ductal adenocarcinoma using CT based radiomics. European Journal of Radiology, 2019, 117, 102-111.	2.6	29
50	A Computed Tomography-Based Radiomic Prognostic Marker of Advanced High-Grade Serous Ovarian Cancer Recurrence: A Multicenter Study. Frontiers in Oncology, 2019, 9, 255.	2.8	44
51	Radiomics-Based Pretherapeutic Prediction of Non-response to Neoadjuvant Therapy in Locally Advanced Rectal Cancer. Annals of Surgical Oncology, 2019, 26, 1676-1684.	1.5	77
52	Radiomics of Multiparametric MRI for Pretreatment Prediction of Pathologic Complete Response to Neoadjuvant Chemotherapy in Breast Cancer: A Multicenter Study. Clinical Cancer Research, 2019, 25, 3538-3547.	7.0	293
53	The Applications of Radiomics in Precision Diagnosis and Treatment of Oncology: Opportunities and Challenges. Theranostics, 2019, 9, 1303-1322.	10.0	554
54	Selection Between Liver Resection Versus Transarterial Chemoembolization in Hepatocellular Carcinoma: A Multicenter Study. Clinical and Translational Gastroenterology, 2019, 10, e00070.	2.5	16

#	Article	IF	Citations
55	Automated detection of hippocampal sclerosis using clinically empirical and radiomics features. Epilepsia, 2019, 60, 2519-2529.	5.1	47
56	Identification of Cognitive Dysfunction in Patients with T2DM Using Whole Brain Functional Connectivity. Genomics, Proteomics and Bioinformatics, 2019, 17, 441-452.	6.9	14
57	Radiomics analysis of placenta on T2WI facilitates prediction of postpartum haemorrhage: A multicentre study. EBioMedicine, 2019, 50, 355-365.	6.1	32
58	A Non-invasive Radiomic Method Using 18F-FDG PET Predicts Isocitrate Dehydrogenase Genotype and Prognosis in Patients With Glioma. Frontiers in Oncology, 2019, 9, 1183.	2.8	41
59	Deep learning provides a new computed tomography-based prognostic biomarker for recurrence prediction in high-grade serous ovarian cancer. Radiotherapy and Oncology, 2019, 132, 171-177.	0.6	113
60	Radiomics Analysis of DTI Data to Assess Vision Outcome After Intravenous Methylprednisolone Therapy in Neuromyelitis Optic Neuritis. Journal of Magnetic Resonance Imaging, 2019, 49, 1365-1373.	3.4	18
61	Radiomics analysis on T2-MR image to predict lymphovascular space invasion in cervical cancer. , 2019, , .		0
62	MR-based radiomics signature in differentiating ocular adnexal lymphoma from idiopathic orbital inflammation. European Radiology, 2018, 28, 3872-3881.	4.5	50
63	Radiomic signature as a diagnostic factor for histologic subtype classification of non-small cell lung cancer. European Radiology, 2018, 28, 2772-2778.	4.5	160
64	Can CT-based radiomics signature predict KRAS/NRAS/BRAF mutations in colorectal cancer?. European Radiology, 2018, 28, 2058-2067.	4.5	177
65	Radiomics in Medical Imaging—Detection, Extraction and Segmentation. Intelligent Systems Reference Library, 2018, , 267-333.	1.2	4
66	A New Approach to Predict Progression-free Survival in Stage IV EGFR-mutant NSCLC Patients with EGFR-TKI Therapy. Clinical Cancer Research, 2018, 24, 3583-3592.	7.0	151
67	Diagnosis of Distant Metastasis of Lung Cancer: Based on Clinical and Radiomic Features. Translational Oncology, 2018, 11, 31-36.	3.7	61
68	A Novel MRI-Based Radiomics Model for Predicting Recurrence in Chordoma. , 2018, 2018, 139-142.		2
69	Unsupervised Deep Learning Features for Lung Cancer Overall Survival Analysis. , 2018, 2018, 2583-2586.		16
70	Radiomics: a Novel CT-Based Method of Predicting Postoperative Recurrence in Ovarian Cancer. , 2018, 2018, 4130-4133.		8
71	The role of insula-cerebellum connection underlying aversive regulation with acupuncture. Molecular Pain, 2018, 14, 174480691918345.	2.1	13
72	Radiomics analysis allows for precise prediction of epilepsy in patients with low-grade gliomas. NeuroImage: Clinical, 2018, 19, 271-278.	2.7	67

#	Article	IF	Citations
73	Building CT Radiomics Based Nomogram for Preoperative Esophageal Cancer Patients Lymph Node Metastasis Prediction. Translational Oncology, 2018, 11, 815-824.	3.7	93
74	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
75	Radiomics analysis of DWI data to identify the rectal cancer patients qualified for local excision after neoadjuvant chemoradiotherapy. , 2018, , .		0
76	Identifying the white matter impairments among ART-naïve HIV patients: a multivariate pattern analysis of DTI data. European Radiology, 2017, 27, 4153-4162.	4.5	46
77	A multivariate pattern analysis study of the HIV-related white matter anatomical structural connections alterations. , 2017, , .		1
78	Interaction of acupuncture treatment and manipulation laterality modulated by the default mode network. Molecular Pain, 2017, 13, 174480691668368.	2.1	11
79	Semi-automated enhanced breast tumor segmentation for CT image. , 2017, 2017, 648-651.		1
80	2D and 3D CT Radiomics Features Prognostic Performance Comparison in Non-Small Cell Lung Cancer. Translational Oncology, 2017, 10, 886-894.	3.7	130
81	Radiomics Analysis for Evaluation of Pathological Complete Response to Neoadjuvant Chemoradiotherapy in Locally Advanced Rectal Cancer. Clinical Cancer Research, 2017, 23, 7253-7262.	7.0	410
82	A multi-view deep convolutional neural networks for lung nodule segmentation. , 2017, 2017, 1752-1755.		72
83	Central focused convolutional neural networks: Developing a data-driven model for lung nodule segmentation. Medical Image Analysis, 2017, 40, 172-183.	11.6	352
84	Grading of Gliomas by Using Radiomic Features on Multiple Magnetic Resonance Imaging (MRI) Sequences. Medical Science Monitor, 2017, 23, 2168-2178.	1.1	43
85	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
86	Gray and white matter alterations in early HIV‐infected patients: Combined voxel‐based morphometry and tract‐based spatial statistics. Journal of Magnetic Resonance Imaging, 2016, 43, 1474-1483.	3.4	39
87	Longitudinal assessment of fractional anisotropy alterations caused by simian immunodeficiency virus infection: a preliminary diffusion tensor imaging study. Journal of NeuroVirology, 2016, 22, 231-239.	2.1	11
88	White matter degeneration in subjective cognitive decline: a diffusion tensor imaging study. Oncotarget, 2016, 7, 54405-54414.	1.8	49
89	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
90	Exploring the Patterns of Acupuncture on Mild Cognitive Impairment Patients Using Regional Homogeneity. PLoS ONE, 2014, 9, e99335.	2.5	36

#	Article	IF	Citations
91	Amplitude of low frequency fluctuation in primary open angle glaucoma: A resting state fMRI study. , 2014, 2014, 6706-9.		9
92	Hypothalamus-Related Resting Brain Network Underlying Short-Term Acupuncture Treatment in Primary Hypertension. Evidence-based Complementary and Alternative Medicine, 2013, 2013, 1-9.	1.2	21
93	Altered Hub Configurations within Default Mode Network following Acupuncture at ST36: A Multimodal Investigation Combining fMRI and MEG. PLoS ONE, 2013, 8, e64509.	2.5	24
94	Manipulation of and Sustained Effects on the Human Brain Induced by Different Modalities of Acupuncture: An fMRI Study. PLoS ONE, 2013, 8, e66815.	2.5	46
95	Dysfunctional whole brain networks in mild cognitive impairment patients: an fMRI study. Proceedings of SPIE, 2012, , .	0.8	2
96	Differential spectral power alteration following acupuncture at different designated places revealed by magnetoencephalography. , 2012, , .		0
97	Tractography of white matter based on diffusion tensor imaging in ischaemic stroke involving the corticospinal tract: a preliminary study. , 2012, , .		0
98	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
99	Acupuncture Induces Divergent Alterations of Functional Connectivity within Conventional Frequency Bands: Evidence from MEG Recordings. PLoS ONE, 2012, 7, e49250.	2.5	10
100	Modulatory effects of acupuncture on resting€state networks: A functional MRI study combining independent component analysis and multivariate granger causality analysis. Journal of Magnetic Resonance Imaging, 2012, 35, 572-581.	3.4	39
101	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
102	Altered topological patterns of brain networks in mild cognitive impairment and Alzheimer's disease: A resting-state fMRI study. Psychiatry Research - Neuroimaging, 2012, 202, 118-125.	1.8	130
103	Neural specificity of acupuncture stimulation from support vector machine classification analysis. Magnetic Resonance Imaging, 2011, 29, 943-950.	1.8	17
104	Investigation of the large-scale functional brain networks modulated by acupuncture. Magnetic Resonance Imaging, 2011, 29, 958-965.	1.8	49
105	Investigation of acupoint specificity by multivariate granger causality analysis from functional MRI data. Journal of Magnetic Resonance Imaging, 2011, 34, 31-42.	3.4	17
106	Differential neural responses to acupuncture revealed by MEG using wavelet-based time-frequency analysis: A pilot study. , 2011, 2011, 7099-102.		7
107	Differential spatial activity patterns of acupuncture by a machine learning based analysis. Proceedings of SPIE, 2011, , .	0.8	0
108	Acupuncture Modulates Temporal Neural Responses in Wide Brain Networks: Evidence from fMRI Study. Molecular Pain, 2010, 6, 1744-8069-6-73.	2.1	102

#	Article	IF	Citations
109	The Role of Imaging in the Detection and Management of COVID-19: A Review. , 0, .		1