Zai-Yi Liu

List of Publications by Year
in descending order

98	5,816	117453	82410
papers	citations	34	72
		h-index	g-index

104	104	104	6594
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Diagnostic challenges in primary cardiac lymphoma, the opportunity of 18F-FDG PET/CT integrated with contrast-enhanced CT. Journal of Nuclear Cardiology, 2022, 29, 2378-2389.	1.4	7
2	The Crohn's-like lymphoid reaction density: a new artificial intelligence quantified prognostic immune index in colon cancer. Cancer Immunology, Immunotherapy, 2022, 71, 1221-1231.	2.0	6
3	Automatic Lung Nodule Segmentation and Intra-Nodular Heterogeneity Image Generation. IEEE Journal of Biomedical and Health Informatics, 2022, 26, 2570-2581.	3.9	13
4	Evaluation of Nonmass Extension to the Nipple at Breast MRI. Radiology, 2022, , 211905.	3.6	0
5	Coupling radiomics analysis of CT image with diversification of tumor ecosystem: A new insight to overall survival in stage I~III colorectal cancer. Chinese Journal of Cancer Research: Official Journal of China Anti-Cancer Association, Beijing Institute for Cancer Research, 2022, 34, 40-52.	0.7	2
6	Development and Validation of an Immune-Based Prognostic Risk Score for Patients With Resected Non-Small Cell Lung Cancer. Frontiers in Immunology, 2022, 13, 835630.	2.2	0
7	Preoperative prediction of intra-tumoral tertiary lymphoid structures based on CT in hepatocellular cancer. European Journal of Radiology, 2022, 151, 110309.	1.2	6
8	T2*-weighted imaging and diffusion kurtosis imaging (DKI) of rectal cancer: correlation with clinical histopathologic prognostic factors. Abdominal Radiology, 2022, 47, 517-529.	1.0	2
9	Development and validation of a computed tomography–based immune ecosystem diversity index as an imaging biomarker in non-small cell lung cancer. European Radiology, 2022, 32, 8726-8736.	2.3	2
10	MRI characteristics of breast edema for assessing axillary lymph node burden in early-stage breast cancer: a retrospective bicentric study. European Radiology, 2022, 32, 8213-8225.	2.3	6
11	Histopathological Tissue Segmentation of Lung Cancer with Bilinear CNN and Soft Attention. BioMed Research International, 2022, 2022, 1-10.	0.9	8
12	Preoperative Prediction of Ki-67 Status in Breast Cancer with Multiparametric MRI Using Transfer Learning. Academic Radiology, 2021, 28, e44-e53.	1.3	28
13	2D and 3D CT Radiomic Features Performance Comparison in Characterization of Gastric Cancer: A Multi-Center Study. IEEE Journal of Biomedical and Health Informatics, 2021, 25, 755-763.	3.9	69
14	Prognostic value of a modified Immunosocre in patients with stage I~III resectable colon cancer. Chinese Journal of Cancer Research: Official Journal of China Anti-Cancer Association, Beijing Institute for Cancer Research, 2021, 33, 379-390.	0.7	10
15	Deep learning quantified mucus-tumor ratio predicting survival of patients with colorectal cancer using whole-slide images. Precision Clinical Medicine, 2021, 4, 17-24.	1.3	8
16	Development and validation of a CT-based radiomics nomogram for preoperative prediction of tumor histologic grade in gastric adenocarcinoma. Chinese Journal of Cancer Research: Official Journal of China Anti-Cancer Association, Beijing Institute for Cancer Research, 2021, 33, 69-78.	0.7	9
17	Novel MRI technique for the quantification of biochemical deterioration in steroid-induced osteonecrosis of femoral head: a prospective diagnostic trial. Journal of Hip Preservation Surgery, 2021, 8, 40-50.	0.6	3
18	Combining quantitative and qualitative magnetic resonance imaging features to differentiate anorectal malignant melanoma from low rectal cancer. Precision Clinical Medicine, 2021, 4, 119-128.	1.3	0

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19	Mitosis detection techniques in H&E stained breast cancer pathological images: A comprehensive review. Computers and Electrical Engineering, 2021, 91, 107038.	3.0	25
20	The value of the tumour-stroma ratio for predicting neoadjuvant chemoradiotherapy response in locally advanced rectal cancer: a case control study. BMC Cancer, 2021, 21, 729.	1.1	8
21	Spleen Radiomics Signature: A Potential Biomarker for Prediction of Early and Late Recurrences of Hepatocellular Carcinoma After Resection. Frontiers in Oncology, 2021, 11, 716849.	1.3	5
22	Development and Validation of a Computed Tomographyâ€"Based Radiomics Signature to Predict Response to Neoadjuvant Chemotherapy for Locally Advanced Gastric Cancer. JAMA Network Open, 2021, 4, e2121143.	2.8	45
23	Radiomic Nomogram for Pretreatment Prediction of Pathologic Complete Response to Neoadjuvant Therapy in Breast Cancer: Predictive Value of Staging Contrast-enhanced CT. Clinical Breast Cancer, 2021, 21, e388-e401.	1.1	9
24	A combination of support vector machine and voxel-based morphometry in adult male alcohol use disorder patients with cognitive deficits. Brain Research, 2021, 1771, 147644.	1.1	3
25	Trajectories of perioperative serum carcinoembryonic antigen and colorectal cancer outcome: A retrospective, multicenter longitudinal cohort study. Clinical and Translational Medicine, 2021, 11, e293.	1.7	8
26	Ultrasoundâ€Based Nomogram for Distinguishing Malignant Tumors from Nodular Sclerosing Adenoses in Solid Breast Lesions. Journal of Ultrasound in Medicine, 2021, 40, 2189-2200.	0.8	6
27	Annotation-efficient deep learning for automatic medical image segmentation. Nature Communications, 2021, 12, 5915.	5.8	59
28	A deep learning quantified stroma-immune score to predict survival of patients with stage IIâ€"III colorectal cancer. Cancer Cell International, 2021, 21, 585.	1.8	14
29	Predicting Neoadjuvant Chemoradiotherapy Response in Locally Advanced Rectal Cancer Using Tumor-Infiltrating Lymphocytes Density. Journal of Inflammation Research, 2021, Volume 14, 5891-5899.	1.6	5
30	Integrating pathomics with radiomics and genomics for cancer prognosis: A brief review. Chinese Journal of Cancer Research: Official Journal of China Anti-Cancer Association, Beijing Institute for Cancer Research, 2021, 33, 563-573.	0.7	23
31	A radiomics prognostic scoring system for predicting progression-free survival in patients with stage IV non-small cell lung cancer treated with platinum-based chemotherapy. Chinese Journal of Cancer Research: Official Journal of China Anti-Cancer Association, Beijing Institute for Cancer Research, 2021, 33, 592-605.	0.7	7
32	Deep Learning Signature Based on Staging CT for Preoperative Prediction of Sentinel Lymph Node Metastasis in Breast Cancer. Academic Radiology, 2020, 27, 1226-1233.	1.3	42
33	AUNet: attention-guided dense-upsampling networks for breast mass segmentation in whole mammograms. Physics in Medicine and Biology, 2020, 65, 055005.	1.6	89
34	A preoperative radiomics model for the identification of lymph node metastasis in patients with early-stage cervical squamous cell carcinoma. British Journal of Radiology, 2020, 93, 20200358.	1.0	11
35	Automatic Prediction of MGMT Status in Glioblastoma via Deep Learning-Based MR Image Analysis. BioMed Research International, 2020, 2020, 1-9.	0.9	23
36	Artificial intelligence quantified tumour-stroma ratio is an independent predictor for overall survival in resectable colorectal cancer. EBioMedicine, 2020, 61, 103054.	2.7	76

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37	Hist-Immune signature: a prognostic factor in colorectal cancer using immunohistochemical slide image analysis. OncoImmunology, 2020, 9, 1841935.	2.1	4
38	Prediction of clinically relevant Pancreatico-enteric Anastomotic Fistulas after Pancreatoduodenectomy using deep learning of Preoperative Computed Tomography. Theranostics, 2020, 10, 9779-9788.	4.6	18
39	A deep learning risk prediction model for overall survival in patients with gastric cancer: A multicenter study. Radiotherapy and Oncology, 2020, 150, 73-80.	0.3	63
40	Predicting treatment response to neoadjuvant chemoradiotherapy in local advanced rectal cancer by biopsy digital pathology image features. Clinical and Translational Medicine, 2020, 10, e110.	1.7	28
41	Deep Learning Features Improve the Performance of a Radiomics Signature for Predicting KRAS Status in Patients with Colorectal Cancer. Academic Radiology, 2020, 27, e254-e262.	1.3	37
42	Deep Convolutional Neural Network-Aided Detection of Portal Hypertension in Patients With Cirrhosis. Clinical Gastroenterology and Hepatology, 2020, 18, 2998-3007.e5.	2.4	31
43	Development and Validation of a Machine Learning Model to Explore Tyrosine Kinase Inhibitor Response in Patients With Stage IV <i>EGFR</i> Variantâ€"Positive Nonâ€"Small Cell Lung Cancer. JAMA Network Open, 2020, 3, e2030442.	2.8	42
44	A CT-based radiomics nomogram for prediction of human epidermal growth factor receptor 2 status in patients with gastric cancer. Chinese Journal of Cancer Research: Official Journal of China Anti-Cancer Association, Beijing Institute for Cancer Research, 2020, 32, 62-71.	0.7	23
45	Radiomics nomogram outperforms size criteria in discriminating lymph node metastasis in resectable esophageal squamous cell carcinoma. European Radiology, 2019, 29, 392-400.	2.3	78
46	Development and Validation of a MRI-Based Radiomics Prognostic Classifier in Patients with Primary Glioblastoma Multiforme. Academic Radiology, 2019, 26, 1292-1300.	1.3	27
47	<p>Nomogram for predicting disease-free survival among a multicenter cohort of Chinese patients with locally advanced rectal cancer</p>. Cancer Management and Research, 2019, Volume 11, 2471-2483.	0.9	10
48	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.	3.2	293
49	Discrimination Between Solitary Brain Metastasis and Glioblastoma Multiforme by Using ADC-Based Texture Analysis: A Comparison of Two Different ROI Placements. Academic Radiology, 2019, 26, 1466-1472.	1.3	25
50	Multiple Level CT Radiomics Features Preoperatively Predict Lymph Node Metastasis in Esophageal Cancer: A Multicentre Retrospective Study. Frontiers in Oncology, 2019, 9, 1548.	1.3	37
51	Learning Cross-Modal Deep Representations for Multi-Modal MR Image Segmentation. Lecture Notes in Computer Science, 2019, , 57-65.	1.0	34
52	X-Net: Brain Stroke Lesion Segmentation Based on Depthwise Separable Convolution and Long-Range Dependencies. Lecture Notes in Computer Science, 2019, , 247-255.	1.0	69
53	CT-based Radiomics Signature to Discriminate High-grade From Low-grade Colorectal Adenocarcinoma. Academic Radiology, 2018, 25, 1285-1297.	1.3	51
54	An MRI-based Radiomics Classifier for Preoperative Prediction of Ki-67 Status in Breast Cancer. Academic Radiology, 2018, 25, 1111-1117.	1.3	77

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55	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.	3.2	151
56	A Radiomics Signature in Preoperative Predicting Degree of Tumor Differentiation in Patients with Non–small Cell Lung Cancer. Academic Radiology, 2018, 25, 1548-1555.	1.3	27
57	Differentiation of benign and malignant solid pancreatic masses using magnetic resonance elastography with spin-echo echo planar imaging and three-dimensional inversion reconstruction: a prospective study. European Radiology, 2018, 28, 936-945.	2.3	36
58	Pretreatment MR imaging radiomics signatures for response prediction to induction chemotherapy in patients with nasopharyngeal carcinoma. European Journal of Radiology, 2018, 98, 100-106.	1.2	106
59	Comparison of microvascular perfusion evaluation among IVIM-DWI, CT perfusion imaging and histological microvessel density in rabbit liver VX2 tumors. Magnetic Resonance Imaging, 2018, 46, 64-69.	1.0	17
60	Individualized prediction of perineural invasion in colorectal cancer: development and validation of a radiomics prediction model. Chinese Journal of Cancer Research: Official Journal of China Anti-Cancer Association, Beijing Institute for Cancer Research, 2018, 30, 40-50.	0.7	53
61	Radiomics approach for preoperative identification of stages I–II and III–IV of esophageal cancer. Chinese Journal of Cancer Research: Official Journal of China Anti-Cancer Association, Beijing Institute for Cancer Research, 2018, 30, 396-405.	0.7	43
62	Development and validation of a radiomics signature for clinically significant portal hypertension in cirrhosis (CHESS1701): a prospective multicenter study. EBioMedicine, 2018, 36, 151-158.	2.7	64
63	Computed tomography-based radiomics for prediction of neoadjuvant chemotherapy outcomes in locally advanced gastric cancer: A pilot study. Chinese Journal of Cancer Research: Official Journal of China Anti-Cancer Association, Beijing Institute for Cancer Research, 2018, 30, 406-414.	0.7	51
64	Texture analysis of baseline multiphasic hepatic computed tomography images for the prognosis of single hepatocellular carcinoma after hepatectomy: A retrospective pilot study. European Journal of Radiology, 2017, 90, 198-204.	1.2	44
65	CT-based radiomics signature: a potential biomarker for preoperative prediction of early recurrence in hepatocellular carcinoma. Abdominal Radiology, 2017, 42, 1695-1704.	1.0	177
66	CT-based radiomics signature for differentiating Borrmann type IV gastric cancer from primary gastric lymphoma. European Journal of Radiology, 2017, 91, 142-147.	1.2	95
67	Intravoxel incoherent motion MRI for the differentiation of benign, intermediate, and malignant solid soft–tissue tumors. Journal of Magnetic Resonance Imaging, 2017, 46, 1611-1618.	1.9	20
68	Development and validation of a radiomics nomogram for progression-free survival prediction in stage IV EGFR-mutant non-small cell lung cancer. Proceedings of SPIE, 2017, , .	0.8	0
69	Can lymphovascular invasion be predicted by preoperative multiphasic dynamic CT in patients with advanced gastric cancer?. European Radiology, 2017, 27, 3383-3391.	2.3	35
70	Multiple network algorithm for epigenetic modules via the integration of genome-wide DNA methylation and gene expression data. BMC Bioinformatics, 2017, 18, 72.	1.2	52
71	Central focused convolutional neural networks: Developing a data-driven model for lung nodule segmentation. Medical Image Analysis, 2017, 40, 172-183.	7.0	352
72	Multiparametric MR diffusion-weighted imaging for monitoring the ultra-early treatment effect of sorafenib in human hepatocellular carcinoma xenografts. Journal of Magnetic Resonance Imaging, 2017, 46, 248-256.	1.9	10

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73	Malignancy characterization of hepatocellular carcinomas based on texture analysis of contrast‐enhanced MR images. Journal of Magnetic Resonance Imaging, 2017, 45, 1476-1484.	1.9	104
74	BI-RADS 3-5 microcalcifications can preoperatively predict breast cancer HER2 and Luminal a molecular subtype. Oncotarget, 2017, 8, 13855-13862.	0.8	25
75	Texture analysis of intermediate-advanced hepatocellular carcinoma: prognosis and patients' selection of transcatheter arterial chemoembolization and sorafenib. Oncotarget, 2017, 8, 37855-37865.	0.8	30
76	Radiomics features of ground glass nodules tailored different pathological grades of lung adenocarcinoma.. Journal of Clinical Oncology, 2017, 35, e23127-e23127.	0.8	0
77	Computed tomography texture analysis to facilitate therapeutic decision making in hepatocellular carcinoma. Oncotarget, 2016, 7, 13248-13259.	0.8	35
78	The development and validation of a CT-based radiomics signature for the preoperative discrimination of stage I-II and stage III-IV colorectal cancer. Oncotarget, 2016, 7, 31401-31412.	0.8	144
79	Non-small cell lung cancer: quantitative phenotypic analysis of CT images as a potential marker of prognosis. Scientific Reports, 2016, 6, 38282.	1.6	37
80	Intravoxel incoherent motion diffusion-weighted MRI for characterizing regional variability and monitoring serial changes of parameters in rabbit VX2 liver tumors. Journal of Magnetic Resonance Imaging, 2016, 43, 173-180.	1.9	5
81	Development and Validation of a Radiomics Nomogram for Preoperative Prediction of Lymph Node Metastasis in Colorectal Cancer. Journal of Clinical Oncology, 2016, 34, 2157-2164.	0.8	1,385
82	Effects of contrast-enhancement, reconstruction slice thickness and convolution kernel on the diagnostic performance of radiomics signature in solitary pulmonary nodule. Scientific Reports, 2016, 6, 34921.	1.6	197
83	Nomogram for Predicting Pulmonary Hypertension in Patients without Pulmonary Embolism. Radiology, 2016, 280, 327-328.	3.6	5
84	MRI signal intensity differentiation of brainstem encephalitis induced by Enterovirus 71: a classification approach for acute and convalescence stages. BioMedical Engineering OnLine, 2016, 15, 25.	1.3	4
85	Can intravoxel incoherent motion diffusion‐weighted imaging characterize the cellular injury and microcirculation alteration in hepatic ischemia‐reperfusion injury? An animal study. Journal of Magnetic Resonance Imaging, 2016, 43, 1327-1336.	1.9	12
86	Diffusion‐weighted multiparametric MRI for monitoring longitudinal changes of parameters in rabbit VX2 liver tumors. Journal of Magnetic Resonance Imaging, 2016, 44, 707-714.	1.9	9
87	Radiomics Signature: A Potential Biomarker for the Prediction of Disease-Free Survival in Early-Stage (I) Tj ETQq1 1 0.784314 rgBT /Overl	3.6	592
88	Association between tumor heterogeneity and overall survival in patients with non-small cell lung cancer. , 2016, , .		5
89	Image quality evaluation of iterative model reconstruction on low tube voltage (80 kVp) coronary CT angiography in an animal study. Acta Radiologica, 2016, 57, 170-177.	0.5	6
90	Use of diffusion-weighted magnetic resonance imaging to distinguish between lung cancer and focal inflammatory lesions: a comparison of intravoxel incoherent motion derived parameters and apparent diffusion coefficient. Acta Radiologica, 2016, 57, 1310-1317.	0.5	41

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91	New Findings, Classification and Long-Term Follow-Up Study Based on MRI Characterization of Brainstem Encephalitis Induced by Enterovirus 71. PLoS ONE, 2016, 11, e0162877.	1.1	9
92	MR diffusion-weighted imaging-based subcutaneous tumour volumetry in a xenografted nude mouse model using 3D Slicer: an accurate and repeatable method. Scientific Reports, 2015, 5, 15653.	1.6	18
93	Angiomyolipoma with Minimal Fat. Academic Radiology, 2015, 22, 1115-1121.	1.3	88
94	Predictors of Interventional Success of Antegrade PCI for CTO. JACC: Cardiovascular Imaging, 2015, 8, 804-813.	2.3	42
95	Metoclopramide or domperidone improves post-pyloric placement of spiral nasojejunal tubes in critically ill patients: a prospective, multicenter, open-label, randomized, controlled clinical trial. Critical Care, 2015, 19, 61.	2.5	37
96	Generation of Functional Human Cardiac Progenitor Cells by High-Efficiency Protein Transduction. Stem Cells Translational Medicine, 2015, 4, 1415-1424.	1.6	38
97	Radiofrequency Ablation of Liver VX2 Tumor: Experimental Results with MR Diffusion-Weighted Imaging at 3.0T. PLoS ONE, 2014, 9, e104239.	1.1	7
98	In Vitro Labeling of Mesenchymal Stem Cells with Superparamagnetic Iron Oxide by Means of Microbubble-enhanced US Exposure: Initial Experience. Radiology, 2009, 253, 153-159.	3.6	16