Binsheng Zhao

List of Publications by Year
in descending order

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126	11,747	57631 44	27345 106
papers	citations	h-index	g-index

128	128	128	12086
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The Multimodal Brain Tumor Image Segmentation Benchmark (BRATS). IEEE Transactions on Medical Imaging, 2015, 34, 1993-2024.	5.4	3,589
2	The Lung Image Database Consortium (LIDC) and Image Database Resource Initiative (IDRI): A Completed Reference Database of Lung Nodules on CT Scans. Medical Physics, 2011, 38, 915-931.	1.6	1,659
3	Small Pulmonary Nodules: Volumetrically Determined Growth Rates Based on CT Evaluation. Radiology, 2000, 217, 251-256.	3.6	547
4	Reproducibility of radiomics for deciphering tumor phenotype with imaging. Scientific Reports, 2016, 6, 23428.	1.6	386
5	Evaluating Variability in Tumor Measurements from Same-day Repeat CT Scans of Patients with Nonâ€“Small Cell Lung Cancer. Radiology, 2009, 252, 263-272.	3.6	284
6	Prospective Assessment of Discontinuation and Reinitiation of Erlotinib or Gefitinib in Patients with Acquired Resistance to Erlotinib or Gefitinib Followed by the Addition of Everolimus. Clinical Cancer Research, 2007, 13, 5150-5155.	3.2	279
7	Small Pulmonary Nodules: Evaluation with Repeat CTâ€”Preliminary Experience. Radiology, 1999, 212, 561-566.	3.6	220
8	Testâ€“Retest Reproducibility Analysis of Lung CT Image Features. Journal of Digital Imaging, 2014, 27, 805-823.	1.6	216
9	Defining a Radiomic Response Phenotype: A Pilot Study using targeted therapy in NSCLC. Scientific Reports, 2016, 6, 33860.	1.6	189
10	Abdominal Fat Is Associated With Lower Bone Formation and Inferior Bone Quality in Healthy Premenopausal Women: A Transiliac Bone Biopsy Study. Journal of Clinical Endocrinology and Metabolism, 2013, 98, 2562-2572.	1.8	165
11	Epidermal Growth Factor Receptor Mutation in Lung Adenocarcinomas: Relationship with CT Characteristics and Histologic Subtypes. Radiology, 2013, 268, 254-264.	3.6	156
12	Variability of Lung Tumor Measurements on Repeat Computed Tomography Scans Taken Within 15 Minutes. Journal of Clinical Oncology, 2011, 29, 3114-3119.	0.8	136
13	EGFR Exon 19 Insertions: A New Family of Sensitizing EGFR Mutations in Lung Adenocarcinoma. Clinical Cancer Research, 2012, 18, 1790-1797.	3.2	134
14	Assessing Agreement between Radiomic Features Computed for Multiple CT Imaging Settings. PLoS ONE, 2016, 11, e0166550.	1.1	128
15	Radiomics machine-learning signature for diagnosis of hepatocellular carcinoma in cirrhotic patients with indeterminate liver nodules. European Radiology, 2020, 30, 558-570.	2.3	118
16	Liver segmentation for CT images using GVF snake. Medical Physics, 2005, 32, 3699-3706.	1.6	113
17	Identification of Nonâ€“Small Cell Lung Cancer Sensitive to Systemic Cancer Therapies Using Radiomics. Clinical Cancer Research, 2020, 26, 2151-2162.	3.2	110
18	Lung Cancer: Computerized Quantification of Tumor Responseâ€”Initial Results. Radiology, 2006, 241, 892-898.	3.6	109

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19	Exploring Variability in CT Characterization of Tumors: A Preliminary Phantom Study. Translational Oncology, 2014, 7, 88-93.	1.7	108
20	Radiomics of Lung Nodules: A Multi-Institutional Study of Robustness and Agreement of Quantitative Imaging Features. Tomography, 2016, 2, 430-437.	0.8	108
21	Quantitative Imaging in Cancer Clinical Trials. Clinical Cancer Research, 2016, 22, 284-290.	3.2	106
22	A Pilot Study of Volume Measurement as a Method of Tumor Response Evaluation to Aid Biomarker Development. Clinical Cancer Research, 2010, 16, 4647-4653.	3.2	104
23	Automatic detection of small lung nodules on CT utilizing a local density maximum algorithm. Journal of Applied Clinical Medical Physics, 2003, 4, 248-260.	0.8	98
24	Automatic detection of small lung nodules on CT utilizing a local density maximum algorithm. Journal of Applied Clinical Medical Physics, 2003, 4, 248.	0.8	97
25	Measurement of Tumor Volumes Improves RECIST-Based Response Assessments in Advanced Lung Cancer. Translational Oncology, 2012, 5, 19-25.	1.7	96
26	Seizure localization using ictal phase-locked high gamma. Neurology, 2015, 84, 2320-2328.	1.5	95
27	Multimodal imaging patterns predict survival in recurrent glioblastoma patients treated with bevacizumab. Neuro-Oncology, 2016, 18, 1680-1687.	0.6	94
28	Radiomics Response Signature for Identification of Metastatic Colorectal Cancer Sensitive to Therapies Targeting EGFR Pathway. Journal of the National Cancer Institute, 2020, 112, 902-912.	3.0	93
29	Segmentation of lung lesions on CT scans using watershed, active contours, and Markov random field. Medical Physics, 2013, 40, 043502.	1.6	85
30	Assessment of Therapy Responses and Prediction of Survival in Malignant Pleural Mesothelioma Through Computer-Aided Volumetric Measurement on Computed Tomography Scans. Journal of Thoracic Oncology, 2010, 5, 879-884.	0.5	81
31	Exploring intra- and inter-reader variability in uni-dimensional, bi-dimensional, and volumetric measurements of solid tumors on CT scans reconstructed at different slice intervals. European Journal of Radiology, 2013, 82, 959-968.	1.2	76
32	Two-dimensional multi-criterion segmentation of pulmonary nodules on helical CT images. Medical Physics, 1999, 26, 889-895.	1.6	75
33	Imaging Surrogates of Tumor Response to Therapy: Anatomic and Functional Biomarkers. Journal of Nuclear Medicine, 2009, 50, 239-249.	2.8	73
34	Automated Quantification of Body Fat Distribution on Volumetric Computed Tomography. Journal of Computer Assisted Tomography, 2006, 30, 777-783.	0.5	68
35	A Comparison of Lung Nodule Segmentation Algorithms: Methods and Results from a Multi-institutional Study. Journal of Digital Imaging, 2016, 29, 476-487.	1.6	68
36	Marker-controlled watershed for lymphoma segmentation in sequential CT images. Medical Physics, 2006, 33, 2452-2460.	1.6	66

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37	CT Slice Thickness and Convolution Kernel Affect Performance of a Radiomic Model for Predicting EGFR Status in Non-Small Cell Lung Cancer: A Preliminary Study. Scientific Reports, 2018, 8, 17913.	1.6	62
38	Radiomics for Classifying Histological Subtypes of Lung Cancer Based on Multiphasic Contrast-Enhanced Computed Tomography. Journal of Computer Assisted Tomography, 2019, 43, 300-306.	0.5	62
39	Understanding Sources of Variation to Improve the Reproducibility of Radiomics. Frontiers in Oncology, 2021, 11, 633176.	1.3	58
40	Lymph node segmentation from CT images using fast marching method. Computerized Medical Imaging and Graphics, 2004, 28, 33-38.	3.5	52
41	Pulmonary Metastases: Effect of CT Section Thickness on Measurementâ€"Initial Experience. Radiology, 2005, 234, 934-939.	3.6	52
42	Hybrid detection of lung nodules on CT scan images. Medical Physics, 2015, 42, 5042-5054.	1.6	50
43	Quantitative Imaging to Assess Tumor Response to Therapy: Common Themes of Measurement, Truth Data, and Error Sources. Translational Oncology, 2009, 2, 198-210.	1.7	49
44	Radiomics for Classification of Lung Cancer Histological Subtypes Based on Nonenhanced Computed Tomography. Academic Radiology, 2019, 26, 1245-1252.	1.3	48
45	Automatic liver segmentation by integrating fully convolutional networks into active contour models. Medical Physics, 2019, 46, 4455-4469.	1.6	46
46	Malignant lesion segmentation in contrastâ€enhanced breast MR images based on the markerâ€controlled watershed. Medical Physics, 2009, 36, 4359-4369.	1.6	44
47	Early Readout on Overall Survival of Patients With Melanoma Treated With Immunotherapy Using a Novel Imaging Analysis. JAMA Oncology, 2022, 8, 385.	3.4	44
48	The Use of Volumetric CT as an Imaging Biomarker in Lung Cancer. Academic Radiology, 2010, 17, 100-106.	1.3	43
49	Comparison of 1D, 2D, and 3D Nodule Sizing Methods by Radiologists for Spherical and Complex Nodules on Thoracic CT Phantom Images. Academic Radiology, 2014, 21, 30-40.	1.3	39
50	Harnessing Technology to Improve Clinical Trials: Study of Real-Time Informatics to Collect Data, Toxicities, Image Response Assessments, and Patient-Reported Outcomes in a Phase II Clinical Trial. Journal of Clinical Oncology, 2013, 31, 2004-2009.	0.8	38
51	Computed Tomography Assessment of Response to Therapy: Tumor Volume Change Measurement, Truth Data, and Error. Translational Oncology, 2009, 2, 216-222.	1.7	35
52	Multiphasic contrastâ€enhanced MRI: Singleâ€slice versus volumetric quantification of tumor enhancement for the assessment of renal clearâ€cell carcinoma fuhrman grade. Journal of Magnetic Resonance Imaging, 2013, 37, 1160-1167.	1.9	35
53	Application of Radiomics in Predicting the Malignancy of Pulmonary Nodules in Different Sizes. American Journal of Roentgenology, 2019, 213, 1213-1220.	1.0	35
54	Shape-Constraint Region Growing for Delineation of Hepatic Metastases on Contrast-Enhanced Computed Tomograph Scans. Investigative Radiology, 2006, 41, 753-762.	3.5	34

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55	Visceral fat area, not body mass index, predicts postoperative 30-day morbidity in patients undergoing colon resection for cancer. International Journal of Colorectal Disease, 2018, 33, 1019-1028.	1.0	32
56	Semiautomatic segmentation of liver metastases on volumetric CT images. Medical Physics, 2015, 42, 6283-6293.	1.6	30
57	Deep learning for the prediction of early on-treatment response in metastatic colorectal cancer from serial medical imaging. Nature Communications, 2021, 12, 6654.	5.8	29
58	Reliability of Radiomic Features Across Multiple Abdominal CT Image Acquisition Settings: A Pilot Study Using ACR CT Phantom. Tomography, 2019, 5, 226-231.	0.8	28
59	Determining the Variability of Lesion Size Measurements from CT Patient Data Sets Acquired under â€œNo Changeâ€•Conditions. Translational Oncology, 2015, 8, 55-64.	1.7	26
60	CT-Based Radiomics Model for Predicting Brain Metastasis in Category T1 Lung Adenocarcinoma. American Journal of Roentgenology, 2019, 213, 134-139.	1.0	25
61	Interobserver variability in tumor contouring affects the use of radiomics to predict mutational status. Journal of Medical Imaging, 2017, 5, 1.	0.8	25
62	Assessing the effect of CT slice interval on unidimensional, bidimensional and volumetric measurements of solid tumours. Cancer Imaging, 2012, 12, 497-505.	1.2	24
63	Radiomics Prediction of EGFR Status in Lung Cancerâ€”Our Experience in Using Multiple Feature Extractors and The Cancer Imaging Archive Data. Tomography, 2020, 6, 223-230.	0.8	24
64	Changes in liver and spleen volumes after living liver donation: A report from the adultâ€toâ€adult living donor liver transplantation cohort study (A2ALL). Liver Transplantation, 2015, 21, 151-161.	1.3	23
65	Monitoring Metastasis and Cachexia in a Patient with Breast Cancer: A Case Study. Clinical Medicine Insights: Oncology, 2016, 10, CMO.S40479.	0.6	22
66	Multiâ€site quality and variability analysis of 3D FDG PET segmentations based on phantom and clinical image data. Medical Physics, 2017, 44, 479-496.	1.6	22
67	The Imaging Viewpoint: How Imaging Affects Determination of Progression-Free Survival. Clinical Cancer Research, 2013, 19, 2621-2628.	3.2	20
68	Does breast MRI background parenchymal enhancement indicate metabolic activity? Qualitative and 3D quantitative computer imaging analysis. Journal of Magnetic Resonance Imaging, 2018, 47, 753-759.	1.9	19
69	A Response Assessment Platform for Development and Validation of Imaging Biomarkers in Oncology. Tomography, 2016, 2, 406-410.	0.8	19
70	Algorithm Variability in the Estimation of Lung Nodule Volume From Phantom CT Scans: Results of the QIBA 3A Public Challenge. Academic Radiology, 2016, 23, 940-952.	1.3	18
71	Assessment of Imaging Modalities and Response Metrics in Ewing Sarcoma: Correlation With Survival. Journal of Clinical Oncology, 2016, 34, 3680-3685.	0.8	17
72	Impact of Variability in Portal Venous Phase Acquisition Timing in Tumor Density Measurement and Treatment Response Assessment: Metastatic Colorectal Cancer as a Paradigm. JCO Clinical Cancer Informatics, 2017, 1, 1-8.	1.0	17

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73	Variability in Assessing Treatment Response: Metastatic Colorectal Cancer as a Paradigm. Clinical Cancer Research, 2014, 20, 3560-3568.	3.2	16
74	Enhanced Detection of Treatment Effects on Metastatic Colorectal Cancer with Volumetric CT Measurements for Tumor Burden Growth Rate Evaluation. Clinical Cancer Research, 2020, 26, 6464-6474.	3.2	16
75	Differentiation of Focal-Type Autoimmune Pancreatitis From Pancreatic Ductal Adenocarcinoma Using Radiomics Based on Multiphasic Computed Tomography. Journal of Computer Assisted Tomography, 2020, 44, 511-518.	0.5	16
76	Implementation Strategy of a CNN Model Affects the Performance of CT Assessment of EGFR Mutation Status in Lung Cancer Patients. IEEE Access, 2019, 7, 64583-64591.	2.6	15
77	Vol-PACT: A Foundation for the NIH Public-Private Partnership That Supports Sharing of Clinical Trial Data for the Development of Improved Imaging Biomarkers in Oncology. JCO Clinical Cancer Informatics, 2018, 2, 1-12.	1.0	14
78	Effect of CT image acquisition parameters on diagnostic performance of radiomics in predicting malignancy of pulmonary nodules of different sizes. European Radiology, 2022, 32, 1517-1527.	2.3	14
79	Post-anoxic quantitative MRI changes may predict emergence from coma and functional outcomes at discharge. Resuscitation, 2017, 117, 87-90.	1.3	13
80	Using a single abdominal computed tomography image to differentiate five contrast-enhancement phases: A machine-learning algorithm for radiomics-based precision medicine. European Journal of Radiology, 2020, 125, 108850.	1.2	13
81	Comparison of tumor size assessments in tumor growth inhibition-overall survival models with second-line colorectal cancer data from the VELOUR study. Cancer Chemotherapy and Pharmacology, 2018, 82, 49-54.	1.1	12
82	Three-Dimensional Quantitative Validation of Breast Magnetic Resonance Imaging Background Parenchymal Enhancement Assessments. Current Problems in Diagnostic Radiology, 2016, 45, 297-303.	0.6	11
83	Automated Identification of Optimal Portal Venous Phase Timing with Convolutional Neural Networks. Academic Radiology, 2020, 27, e10-e18.	1.3	11
84	Automated matching and segmentation of lymphoma on serial CT examinations. Medical Physics, 2006, 34, 55-62.	1.6	10
85	A quantitative imaging biomarker for predicting disease-free-survival-associated histologic subgroups in lung adenocarcinoma. European Radiology, 2020, 30, 3614-3623.	2.3	10
86	Comparing RECIST 1.1 and iRECIST in advanced melanoma patients treated with pembrolizumab in a phase II clinical trial. European Radiology, 2021, 31, 1853-1862.	2.3	10
87	Uncontrolled Confounders May Lead to False or Overvalued Radiomics Signature: A Proof of Concept Using Survival Analysis in a Multicenter Cohort of Kidney Cancer. Frontiers in Oncology, 2021, 11, 638185.	1.3	10
88	Effects of lossy compression on lesion detection: Predictions of the nonprewhitening matched filter. Medical Physics, 1998, 25, 1621-1624.	1.6	9
89	Quantitative X-ray Computed Tomography Peritoneography in Malignant Peritoneal Mesothelioma Patients Receiving Intraperitoneal Chemotherapy. Annals of Surgical Oncology, 2013, 20, 553-559.	0.7	9
90	Quantitative 3D breast magnetic resonance imaging fibroglandular tissue analysis and correlation with qualitative assessments: a feasibility study. Quantitative Imaging in Medicine and Surgery, 2016, 6, 144-150.	1.1	9

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91	Lymph node segmentation by dynamic programming and active contours. Medical Physics, 2018, 45, 2054-2062.	1.6	9
92	Distinguishing benign and malignant lesions on contrast-enhanced breast cone-beam CT with deep learning neural architecture search. European Journal of Radiology, 2021, 142, 109878.	1.2	9
93	CT-guided automated detection of lung tumors on PET images. Proceedings of SPIE, 2008, , .	0.8	8
94	Volumetry of lowâ€contrast liver lesions with CT: Investigation of estimation uncertainties in a phantom study. Medical Physics, 2016, 43, 6608-6620.	1.6	8
95	The role of multimodal imaging in guiding resectability and cytoreduction in pancreatic neuroendocrine tumors: focus on PET and MRI. Abdominal Radiology, 2019, 44, 2474-2493.	1.0	8
96	Imaging-guided precision medicine in non-resectable gastro-entero-pancreatic neuroendocrine tumors: A step-by-step approach. European Journal of Radiology, 2020, 122, 108743.	1.2	8
97	Identifying Robust Radiomics Features for Lung Cancer by Using In-Vivo and Phantom Lung Lesions. Tomography, 2021, 7, 55-64.	0.8	8
98	Semiautomated Workflow for Clinically Streamlined Glioma Parametric Response Mapping. Tomography, 2016, 2, 267-275.	0.8	8
99	<title>Consistent segmentation of repeat CT scans for growth assessment in pulmonary nodules</title>. , 1999, , .		7
100	Characterization of Small Nodules by Automatic Segmentation of X-ray Computed Tomography Images. Journal of Computer Assisted Tomography, 2004, 28, 372-377.	0.5	7
101	Predicting Tyrosine Kinase Inhibitor Treatment Response in Stage IV Lung Adenocarcinoma Patients With EGFR Mutation Using Model-Based Deep Transfer Learning. Frontiers in Oncology, 2021, 11, 679764.	1.3	7
102	A randomized single blind controlled trial of beads versus doxorubicin-eluting beads for arterial embolization of hepatocellular carcinoma (HCC).. Journal of Clinical Oncology, 2013, 31, 143-143.	0.8	7
103	Nonenhancing Component of Clear Cell Renal Cell Carcinoma on Computed Tomography Correlates With Tumor Necrosis and Stage and Serves as a Size-Independent Prognostic Biomarker. Journal of Computer Assisted Tomography, 2019, 43, 628-633.	0.5	5
104	Automatic liver contour segmentation using GVF snake. , 2004, 5370, 1466.		4
105	Evaluation of 1D, 2D and 3D nodule size estimation by radiologists for spherical and non-spherical nodules through CT thoracic phantom imaging. , 2011, , .		4
106	Multisite Technical and Clinical Performance Evaluation of Quantitative Imaging Biomarkers from 3D FDG PET Segmentations of Head and Neck Cancer Images. Tomography, 2020, 6, 65-76.	0.8	4
107	Role of radiomics to differentiate benign from malignant pheochromocytomas and paragangliomas on contrast enhanced CT scans.. Journal of Clinical Oncology, 2019, 37, e14596-e14596.	0.8	4
108	A Web-Based Response-Assessment System for Development and Validation of Imaging Biomarkers in Oncology. Tomography, 2019, 5, 220-225.	0.8	3

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109	The effects of iterative reconstruction in CT on low-contrast liver lesion volumetry: a phantom study. Proceedings of SPIE, 2017, , .	0.8	1
110	Reply to A. Braillon, M. Boulin et al, and J.-H. Zhong et al. Journal of Clinical Oncology, 2017, 35, 258-259.	0.8	1
111	Monitoring Responses to Therapy in Oncology. , 2014, , 155-171.		1
112	Pharmaco-kinetics/dynamics (PK/PD) evaluation and individual patient cross-over studies with growth trajectory assessment to adaptively develop ilorasertib.. Journal of Clinical Oncology, 2017, 35, 2563-2563.	0.8	1
113	Toward radiomics for assessment of response to systemic therapies in lung cancer. Oncotarget, 2020, 11, 4677-4680.	0.8	1
114	819â€...Radiomic markers associated with clinical benefit in advanced uveal melanoma patients with radiographic progression on tebentafusp. , 2021, 9, A857-A857.		1
115	Convolutional Neural Network Addresses the Confounding Impact of CT Reconstruction Kernels on Radiomics Studies. Tomography, 2021, 7, 877-892.	0.8	1
116	Radiomic signatures to predict survival in patients with advanced hepatocellular carcinoma (HCC) treated with sorafenib +/- doxorubicin: Correlative science from CALGB 80802 (Alliance).. Journal of Clinical Oncology, 2021, 39, 343-343.	0.8	0
117	Quantitative contrast peritoneography for intraperitoneal chemotherapy.. Journal of Clinical Oncology, 2012, 30, e13064-e13064.	0.8	0
118	Relationship of variability in tumor measurement and response assessment.. Journal of Clinical Oncology, 2012, 30, 2541-2541.	0.8	0
119	Real-time informatics to collect data, toxicities, image response assessments, and patient-reported outcomes (PROs) in a phase II clinical trial.. Journal of Clinical Oncology, 2012, 30, e19647-e19647.	0.8	0
120	Minor response rate to predict patient survival.. Journal of Clinical Oncology, 2013, 31, 3635-3635.	0.8	0
121	Semi-automated validation of centralized independent review of radiological data in the OPUS trial.. Journal of Clinical Oncology, 2014, 32, 542-542.	0.8	0
122	The who and what of imaging in sarcoma and correlation with survival.. Journal of Clinical Oncology, 2015, 33, 10511-10511.	0.8	0
123	Early response metrics for predicting trial outcomes: A report from volumetric CT for precision analysis of clinical trials (Vol-PACT).. Journal of Clinical Oncology, 2018, 36, 3581-3581.	0.8	0
124	Baseline and longitudinal quantification of lean muscle mass using routine CT measurements prior to resection for pancreatic adenocarcinoma.. Journal of Clinical Oncology, 2019, 37, 198-198.	0.8	0
125	Using virtual clinical trials to determine the accuracy of AI-based quantitative imaging biomarkers in oncology trials using standard-of-care CT. , 2022, , .		0
126	Association of early tumor growth rate and survival outcomes in first-line metastatic nonâ€“small cell lung cancer (mNSCLC).. Journal of Clinical Oncology, 2022, 40, 9063-9063.	0.8	0