Dennis S Mackin

List of Publications by Year
in descending order

39 papers	2,803 citations	304368 22 h-index	301761 39 g-index
42 all docs	42 docs citations	42 times ranked	3613 citing authors

#	Article	IF	Citations
1	Measuring Computed Tomography Scanner Variability of Radiomics Features. Investigative Radiology, 2015, 50, 757-765.	3.5	519
2	Intrinsic dependencies of <scp>CT</scp> radiomic features on voxel size and number of gray levels. Medical Physics, 2017, 44, 1050-1062.	1.6	428
3	Delta-radiomics features for the prediction of patient outcomes in non–small cell lung cancer. Scientific Reports, 2017, 7, 588.	1.6	254
4	Can radiomics features be reproducibly measured from CBCT images for patients with non‐small cell lung cancer?. Medical Physics, 2015, 42, 6784-6797.	1.6	142
5	Harmonizing the pixel size in retrospective computed tomography radiomics studies. PLoS ONE, 2017, 12, e0178524.	1.1	127
6	A predictive model for distinguishing radiation necrosis from tumour progression after gamma knife radiosurgery based on radiomic features from MR images. European Radiology, 2018, 28, 2255-2263.	2.3	121
7	Imaging of prompt gamma rays emitted during delivery of clinical proton beams with a Compton camera: feasibility studies for range verification. Physics in Medicine and Biology, 2015, 60, 7085-7099.	1.6	110
8	3D prompt gamma imaging for proton beam range verification. Physics in Medicine and Biology, 2018, 63, 035019.	1.6	100
9	Effect of tube current on computed tomography radiomic features. Scientific Reports, 2018, 8, 2354.	1.6	94
10	Comprehensive Investigation on Controlling for CT Imaging Variabilities in Radiomics Studies. Scientific Reports, 2018, 8, 13047.	1.6	89
11	Impact of image preprocessing on the volume dependence and prognostic potential of radiomics features in non-small cell lung cancer. Translational Cancer Research, 2016, 5, 349-363.	0.4	87
12	Evaluation of a stochastic reconstruction algorithm for use in Compton camera imaging and beam range verification from secondary gamma emission during proton therapy. Physics in Medicine and Biology, 2012, 57, 3537-3553.	1.6	67
13	Measurement of characteristic prompt gamma rays emitted from oxygen and carbon in tissue-equivalent samples during proton beam irradiation. Physics in Medicine and Biology, 2013, 58, 5821-5831.	1.6	63
14	Lung tumor segmentation methods: Impact on the uncertainty of radiomics features for non-small cell lung cancer. PLoS ONE, 2018, 13, e0205003.	1.1	63
15	Towards Effective and Efficient Patient-Specific Quality Assurance for Spot Scanning Proton Therapy. Cancers, 2015, 7, 631-647.	1.7	59
16	Radiomics features of the primary tumor fail to improve prediction of overall survival in large cohorts of CT- and PET-imaged head and neck cancer patients. PLoS ONE, 2019, 14, e0222509.	1.1	56
17	Computational resources for radiomics. Translational Cancer Research, 2016, 5, 340-348.	0.4	56
18	Radiomics feature robustness as measured using an MRI phantom. Scientific Reports, 2021, 11, 3973.	1.6	45

#	Article	IF	Citations
19	Machine Learning Applications in Head and Neck Radiation Oncology: Lessons From Open-Source Radiomics Challenges. Frontiers in Oncology, 2018, 8, 294.	1.3	37
20	Improving spot‑scanning proton therapy patient specific quality assurance with HPlusQA, a second‑check dose calculation engine. Medical Physics, 2013, 40, 121708.	1.6	32
21	Practical guidelines for handling head and neck computed tomography artifacts for quantitative image analysis. Computerized Medical Imaging and Graphics, 2018, 69, 134-139.	3.5	29
22	The effects of Doppler broadening and detector resolution on the performance of three‑stage Compton cameras. Medical Physics, 2013, 40, 012402.	1.6	28
23	Prognostic value of combining a quantitative image feature from positron emission tomography with clinical factors in oligometastatic non-small cell lung cancer. Radiotherapy and Oncology, 2018, 126, 362-367.	0.3	25
24	Spot-Scanning Proton Therapy Patient-Specific Quality Assurance: Results from 309 Treatment Plans. International Journal of Particle Therapy, 2014, 1, 711-720.	0.9	20
25	Feasibility Studies of a New Event Selection Method to Improve Spatial Resolution of Compton Imaging for Medical Applications. IEEE Transactions on Radiation and Plasma Medical Sciences, 2017, 1, 358-367.	2.7	19
26	Guidelines and Experience Using Imaging Biomarker Explorer (IBEX) for Radiomics. Journal of Visualized Experiments, 2018, , .	0.2	19
27	Matching and Homogenizing Convolution Kernels for Quantitative Studies in Computed Tomography. Investigative Radiology, 2019, 54, 288-295.	3.5	19
28	Quantitative analysis of treatment process time and throughput capacity for spot scanning proton therapy. Medical Physics, 2016, 43, 3975-3986.	1.6	17
29	Computational model for detector timing effects in Compton-camera based prompt-gamma imaging for proton radiotherapy. Physics in Medicine and Biology, 2020, 65, 125004.	1.6	14
30	Secondary Particle Interactions in a Compton Camera Designed for *in vivo* Range Verification of Proton Therapy. IEEE Transactions on Radiation and Plasma Medical Sciences, 2021, 5, 383-391.	2.7	10
31	Applications of Machine Learning to Improve the Clinical Viability of Compton Camera Based in vivo Range Verification in Proton Radiotherapy. Frontiers in Physics, 2022, 10, .	1.0	10
32	Technical Note: Proof of concept for radiomics‑based quality assurance for computed tomography. Journal of Applied Clinical Medical Physics, 2019, 20, 199-205.	0.8	8
33	Computed Tomography Radiomics Kinetics as Early Imaging Correlates of Osteoradionecrosis in Oropharyngeal Cancer Patients. Frontiers in Artificial Intelligence, 2021, 4, 618469.	2.0	8
34	Cost‑effective immobilization for whole brain radiation therapy. Journal of Applied Clinical Medical Physics, 2017, 18, 116-122.	0.8	6
35	The Effects of Compton Camera Data Acquisition and Readout Timing on PG Imaging for Proton Range Verification. IEEE Transactions on Radiation and Plasma Medical Sciences, 2022, 6, 366-373.	2.7	5
36	Quantitative image feature variability amongst CT scanners with a controlled scan protocol. , 2018, , .		4

#	Article	IF	Citations
37	Use of uniform shots for robust planning of mask-based treatment in Gamma Knife Icon. Physica Medica, 2020, 73, 135-157.	0.4	2
38	Study of the Angular Dependence of a Prompt Gamma Detector Response during Proton Radiation Therapy. International Journal of Particle Therapy, 2014, 1, 731-744.	0.9	1
39	An imaging/biology correlation study between radiomics features and anaplastic lymphoma kinase (ALK) mutational status in a uniform Chinese cohort of locally advanced lung adenocarcinomas.. Journal of Clinical Oncology, 2018, 36, e20540-e20540.	0.8	0