

Dennis S Mackin

List of Publications by Year in descending order

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39
papers

2,803
citations

304743

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42
all docs

42
docs citations

42
times ranked

3613
citing authors

#	ARTICLE	IF	CITATIONS
1	Measuring Computed Tomography Scanner Variability of Radiomics Features. <i>Investigative Radiology</i> , 2015, 50, 757-765.	6.2	519
2	Intrinsic dependencies of <scp>CT</scp> radiomic features on voxel size and number of gray levels. <i>Medical Physics</i> , 2017, 44, 1050-1062.	3.0	428
3	Delta-radiomics features for the prediction of patient outcomes in nonâ€‘small cell lung cancer. <i>Scientific Reports</i> , 2017, 7, 588.	3.3	254
4	Can radiomics features be reproducibly measured from CBCT images for patients with nonâ€‘small cell lung cancer?. <i>Medical Physics</i> , 2015, 42, 6784-6797.	3.0	142
5	Harmonizing the pixel size in retrospective computed tomography radiomics studies. <i>PLoS ONE</i> , 2017, 12, e0178524.	2.5	127
6	A predictive model for distinguishing radiation necrosis from tumour progression after gamma knife radiosurgery based on radiomic features from MR images. <i>European Radiology</i> , 2018, 28, 2255-2263.	4.5	121
7	Imaging of prompt gamma rays emitted during delivery of clinical proton beams with a Compton camera: feasibility studies for range verification. <i>Physics in Medicine and Biology</i> , 2015, 60, 7085-7099.	3.0	110
8	3D prompt gamma imaging for proton beam range verification. <i>Physics in Medicine and Biology</i> , 2018, 63, 035019.	3.0	100
9	Effect of tube current on computed tomography radiomic features. <i>Scientific Reports</i> , 2018, 8, 2354.	3.3	94
10	Comprehensive Investigation on Controlling for CT Imaging Variabilities in Radiomics Studies. <i>Scientific Reports</i> , 2018, 8, 13047.	3.3	89
11	Impact of image preprocessing on the volume dependence and prognostic potential of radiomics features in non-small cell lung cancer. <i>Translational Cancer Research</i> , 2016, 5, 349-363.	1.0	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. <i>Physics in Medicine and Biology</i> , 2012, 57, 3537-3553.	3.0	67
13	Measurement of characteristic prompt gamma rays emitted from oxygen and carbon in tissue-equivalent samples during proton beam irradiation. <i>Physics in Medicine and Biology</i> , 2013, 58, 5821-5831.	3.0	63
14	Lung tumor segmentation methods: Impact on the uncertainty of radiomics features for non-small cell lung cancer. <i>PLoS ONE</i> , 2018, 13, e0205003.	2.5	63
15	Towards Effective and Efficient Patient-Specific Quality Assurance for Spot Scanning Proton Therapy. <i>Cancers</i> , 2015, 7, 631-647.	3.7	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. <i>PLoS ONE</i> , 2019, 14, e0222509.	2.5	56
17	Computational resources for radiomics. <i>Translational Cancer Research</i> , 2016, 5, 340-348.	1.0	56
18	Radiomics feature robustness as measured using an MRI phantom. <i>Scientific Reports</i> , 2021, 11, 3973.	3.3	45

#	ARTICLE	IF	CITATIONS
19	Machine Learning Applications in Head and Neck Radiation Oncology: Lessons From Open-Source Radiomics Challenges. <i>Frontiers in Oncology</i> , 2018, 8, 294.	2.8	37
20	Improving spot-scanning proton therapy patient specific quality assurance with HPlusQA, a second-check dose calculation engine. <i>Medical Physics</i> , 2013, 40, 121708.	3.0	32
21	Practical guidelines for handling head and neck computed tomography artifacts for quantitative image analysis. <i>Computerized Medical Imaging and Graphics</i> , 2018, 69, 134-139.	5.8	29
22	The effects of Doppler broadening and detector resolution on the performance of three-stage Compton cameras. <i>Medical Physics</i> , 2013, 40, 012402.	3.0	28
23	Prognostic value of combining a quantitative image feature from positron emission tomography with clinical factors in oligometastatic non-small cell lung cancer. <i>Radiotherapy and Oncology</i> , 2018, 126, 362-367.	0.6	25
24	Spot-Scanning Proton Therapy Patient-Specific Quality Assurance: Results from 309 Treatment Plans. <i>International Journal of Particle Therapy</i> , 2014, 1, 711-720.	1.8	20
25	Feasibility Studies of a New Event Selection Method to Improve Spatial Resolution of Compton Imaging for Medical Applications. <i>IEEE Transactions on Radiation and Plasma Medical Sciences</i> , 2017, 1, 358-367.	3.7	19
26	Guidelines and Experience Using Imaging Biomarker Explorer (IBEX) for Radiomics. <i>Journal of Visualized Experiments</i> , 2018, , .	0.3	19
27	Matching and Homogenizing Convolution Kernels for Quantitative Studies in Computed Tomography. <i>Investigative Radiology</i> , 2019, 54, 288-295.	6.2	19
28	Quantitative analysis of treatment process time and throughput capacity for spot scanning proton therapy. <i>Medical Physics</i> , 2016, 43, 3975-3986.	3.0	17
29	Computational model for detector timing effects in Compton-camera based prompt-gamma imaging for proton radiotherapy. <i>Physics in Medicine and Biology</i> , 2020, 65, 125004.	3.0	14
30	Secondary Particle Interactions in a Compton Camera Designed for <i>in vivo</i> Range Verification of Proton Therapy. <i>IEEE Transactions on Radiation and Plasma Medical Sciences</i> , 2021, 5, 383-391.	3.7	10
31	Applications of Machine Learning to Improve the Clinical Viability of Compton Camera Based <i>in vivo</i> Range Verification in Proton Radiotherapy. <i>Frontiers in Physics</i> , 2022, 10, .	2.1	10
32	Technical Note: Proof of concept for radiomics-based quality assurance for computed tomography. <i>Journal of Applied Clinical Medical Physics</i> , 2019, 20, 199-205.	1.9	8
33	Computed Tomography Radiomics Kinetics as Early Imaging Correlates of Osteoradionecrosis in Oropharyngeal Cancer Patients. <i>Frontiers in Artificial Intelligence</i> , 2021, 4, 618469.	3.4	8
34	Cost-effective immobilization for whole brain radiation therapy. <i>Journal of Applied Clinical Medical Physics</i> , 2017, 18, 116-122.	1.9	6
35	The Effects of Compton Camera Data Acquisition and Readout Timing on PG Imaging for Proton Range Verification. <i>IEEE Transactions on Radiation and Plasma Medical Sciences</i> , 2022, 6, 366-373.	3.7	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. <i>Physica Medica</i> , 2020, 73, 135-157.	0.7	2
38	Study of the Angular Dependence of a Prompt Gamma Detector Response during Proton Radiation Therapy. <i>International Journal of Particle Therapy</i> , 2014, 1, 731-744.	1.8	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.. <i>Journal of Clinical Oncology</i> , 2018, 36, e20540-e20540.	1.6	0