

Jing Wang

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

50
papers

1,946
citations

22
h-index

44
g-index

59
ext. papers

2,463
ext. citations

4.3
avg, IF

4.94
L-index

#	Paper	IF	Citations
50	Penalized weighted least-squares approach to sinogram noise reduction and image reconstruction for low-dose X-ray computed tomography. <i>IEEE Transactions on Medical Imaging</i> , 2006 , 25, 1272-1283	11.7	316
49	Penalized weighted least-squares approach to sinogram noise reduction and image reconstruction for low-dose X-ray computed tomography. <i>IEEE Transactions on Medical Imaging</i> , 2006 , 25, 1272-83	11.7	230
48	Compressed sensing based cone-beam computed tomography reconstruction with a first-order method. <i>Medical Physics</i> , 2010 , 37, 5113-25	4.4	179
47	Scatter correction for cone-beam CT in radiation therapy. <i>Medical Physics</i> , 2009 , 36, 2258-68	4.4	125
46	Iterative image reconstruction for CBCT using edge-preserving prior. <i>Medical Physics</i> , 2009 , 36, 252-60	4.4	119
45	An experimental study on the noise properties of x-ray CT sinogram data in Radon space. <i>Physics in Medicine and Biology</i> , 2008 , 53, 3327-41	3.8	102
44	Generating synthesized computed tomography (CT) from cone-beam computed tomography (CBCT) using CycleGAN for adaptive radiation therapy. <i>Physics in Medicine and Biology</i> , 2019 , 64, 125002	3.8	71
43	A practical cone-beam CT scatter correction method with optimized Monte Carlo simulations for image-guided radiation therapy. <i>Physics in Medicine and Biology</i> , 2015 , 60, 3567-87	3.8	68
42	Dose reduction for kilovoltage cone-beam computed tomography in radiation therapy. <i>Physics in Medicine and Biology</i> , 2008 , 53, 2897-909	3.8	62
41	High-quality four-dimensional cone-beam CT by deforming prior images. <i>Physics in Medicine and Biology</i> , 2013 , 58, 231-46	3.8	60
40	Simultaneous motion estimation and image reconstruction (SMEIR) for 4D cone-beam CT. <i>Medical Physics</i> , 2013 , 40, 101912	4.4	57
39	Statistical image reconstruction for low-dose CT using nonlocal means-based regularization. <i>Computerized Medical Imaging and Graphics</i> , 2014 , 38, 423-35	7.6	51
38	Applications of nonlocal means algorithm in low-dose X-ray CT image processing and reconstruction: A review. <i>Medical Physics</i> , 2017 , 44, 1168-1185	4.4	50
37	Combining many-objective radiomics and 3D convolutional neural network through evidential reasoning to predict lymph node metastasis in head and neck cancer. <i>Physics in Medicine and Biology</i> , 2019 , 64, 075011	3.8	37
36	Synthetic CT generation from CBCT images via deep learning. <i>Medical Physics</i> , 2020 , 47, 1115-1125	4.4	34
35	Deriving adaptive MRF coefficients from previous normal-dose CT scan for low-dose image reconstruction via penalized weighted least-squares minimization. <i>Medical Physics</i> , 2014 , 41, 041916	4.4	33
34	Multi-objective radiomics model for predicting distant failure in lung SBRT. <i>Physics in Medicine and Biology</i> , 2017 , 62, 4460-4478	3.8	30

33	Effects of the penalty on the penalized weighted least-squares image reconstruction for low-dose CBCT. <i>Physics in Medicine and Biology</i> , 2011 , 56, 5535-52	3.8	30
32	Iterative CBCT reconstruction using Hessian penalty. <i>Physics in Medicine and Biology</i> , 2015 , 60, 1965-87	3.8	28
31	Predicting lung nodule malignancies by combining deep convolutional neural network and handcrafted features. <i>Physics in Medicine and Biology</i> , 2019 , 64, 175012	3.8	25
30	Inverse determination of the penalty parameter in penalized weighted least-squares algorithm for noise reduction of low-dose CBCT. <i>Medical Physics</i> , 2011 , 38, 4066-72	4.4	23
29	Statistical Iterative CBCT Reconstruction Based on Neural Network. <i>IEEE Transactions on Medical Imaging</i> , 2018 , 37, 1511-1521	11.7	22
28	A Biomechanical Modeling Guided CBCT Estimation Technique. <i>IEEE Transactions on Medical Imaging</i> , 2017 , 36, 641-652	11.7	21
27	A manifold learning regularization approach to enhance 3D CT image-based lung nodule classification. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2020 , 15, 287-295	3.9	21
26	Multi-Objective-Based Radiomic Feature Selection for Lesion Malignancy Classification. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2020 , 24, 194-204	7.2	20
25	Respiratory motion correction in 4D-PET by simultaneous motion estimation and image reconstruction (SMEIR). <i>Physics in Medicine and Biology</i> , 2016 , 61, 5639-61	3.8	14
24	Optimization of the geometry and speed of a moving blocker system for cone-beam computed tomography scatter correction. <i>Medical Physics</i> , 2017 , 44, e215-e229	4.4	13
23	Recent Development of Low-dose X-ray Cone-beam Computed Tomography. <i>Current Medical Imaging</i> , 2010 , 6, 72-81	1.2	13
22	Low-Dose CBCT Reconstruction Using Hessian Schatten Penalties. <i>IEEE Transactions on Medical Imaging</i> , 2017 , 36, 2588-2599	11.7	11
21	A patient set-up protocol based on partially blocked cone-beam CT. <i>Technology in Cancer Research and Treatment</i> , 2010 , 9, 191-8	2.7	8
20	4D liver tumor localization using cone-beam projections and a biomechanical model. <i>Radiotherapy and Oncology</i> , 2019 , 133, 183-192	5.3	8
19	Structure-adaptive CBCT reconstruction using weighted total variation and Hessian penalties. <i>Biomedical Optics Express</i> , 2016 , 7, 3299-3322	3.5	7
18	4D cone-beam computed tomography (CBCT) using a moving blocker for simultaneous radiation dose reduction and scatter correction. <i>Physics in Medicine and Biology</i> , 2018 , 63, 115007	3.8	6
17	Total image constrained diffusion tensor for spectral computed tomography reconstruction. <i>Applied Mathematical Modelling</i> , 2019 , 68, 487-508	4.5	6
16	Enhancing liver tumor localization accuracy by prior-knowledge-guided motion modeling and a biomechanical model. <i>Quantitative Imaging in Medicine and Surgery</i> , 2019 , 9, 1337-1349	3.6	5

15	Multifaceted radiomics for distant metastasis prediction in head & neck cancer. <i>Physics in Medicine and Biology</i> , 2020 , 65, 155009	3.8	5
14	Attenuation correction in 4D-PET using a single-phase attenuation map and rigidity-adaptive deformable registration. <i>Medical Physics</i> , 2017 , 44, 522-532	4.4	4
13	. <i>IEEE Access</i> , 2020 , 8, 73293-73306	3.5	4
12	Nonlocal means-based regularizations for statistical CT reconstruction 2014 ,		4
11	On the robustness of deep learning-based lung-nodule classification for CT images with respect to image noise. <i>Physics in Medicine and Biology</i> , 2020 , 65, 245037	3.8	4
10	Quantitative 4D-PET reconstruction for small animal using SMEIR-reconstructed 4D-CBCT. <i>IEEE Transactions on Radiation and Plasma Medical Sciences</i> , 2018 , 2, 300-306	4.2	3
9	Predicting lymph node metastasis in patients with oropharyngeal cancer by using a convolutional neural network with associated epistemic and aleatoric uncertainty. <i>Physics in Medicine and Biology</i> , 2020 , 65, 225002	3.8	3
8	Structure tensor total variation for CBCT reconstruction. <i>Journal of X-Ray Science and Technology</i> , 2019 , 27, 257-272	2.1	2
7	Dosimetric evaluation of 4D-CBCT reconstructed by Simultaneous Motion Estimation and Image Reconstruction (SMEIR) for carbon ion therapy of lung cancer. <i>Medical Physics</i> , 2019 , 46, 4087-4094	4.4	2
6	A collection input based support tensor machine for lesion malignancy classification in digital breast tomosynthesis. <i>Physics in Medicine and Biology</i> , 2019 , 64, 235007	3.8	2
5	Modified simultaneous motion estimation and image reconstruction (m-SMEIR) for 4D-CBCT 2018 ,		2
4	Synthetic CT generation from CBCT images via unsupervised deep learning. <i>Physics in Medicine and Biology</i> , 2021 , 66,	3.8	1
3	General simultaneous motion estimation and image reconstruction (G-SMEIR). <i>Biomedical Physics and Engineering Express</i> , 2021 , 7,	1.5	1
2	Lung contour detection in Chest X-ray images using Mask Region-based Convolutional Neural Network and Adaptive Closed Polyline Searching Method. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2021 , 2021, 2639-2642	0.9	0
1	Automatic liver tumor localization using deep learning-based liver boundary motion estimation and biomechanical modeling (DL-Bio). <i>Medical Physics</i> , 2021 , 48, 7790	4.4	0