Zixiang Chen

List of Publications by Year
in descending order

45	679	686830	580395
papers	citations	13	25
		h-index	g-index

49	49	49	542
all docs	docs citations	times ranked	citing authors

#	ARTICLE	IF	CITATIONS
1	Noise-Generating-Mechanism-Driven Unsupervised Learning for Low-Dose CT Sinogram Recovery. IEEE Transactions on Radiation and Plasma Medical Sciences, 2022, 6, 404-414.	2.7	5
2	Noise modelling of perfusion CT images for robust hemodynamic parameter estimations. Physics in Medicine and Biology, 2022, , .	1.6	0
3	MRI-based Texture Analysis of Infrapatellar Fat Pad to Predict Knee Osteoarthritis Incidence. Radiology, 2022, 304, 611-621.	3.6	23
4	DaNet: dose-aware network embedded with dose-level estimation for low-dose CT imaging. Physics in Medicine and Biology, 2021, 66, 015005.	1.6	13
5	Downsampled Imaging Geometric Modeling for Accurate CT Reconstruction via Deep Learning. IEEE Transactions on Medical Imaging, 2021, 40, 2976-2985.	5.4	7
6	Weighted Tensor Low-Rankness and Learnable Analysis Sparse Representation Model for Texture Preserving Low-Dose CT Reconstruction. IEEE Transactions on Computational Imaging, 2021, 7, 321-336.	2.6	5
7	Temporal feature prior-aided separated reconstruction method for low-dose dynamic myocardial perfusion computed tomography. Physics in Medicine and Biology, 2021, 66, 045012.	1.6	6
8	Prior-image-based CT reconstruction using attenuation-mismatched priors. Physics in Medicine and Biology, 2021, 66, 064007.	1.6	2
9	Learning non-local perfusion textures for high-quality computed tomography perfusion imaging. Physics in Medicine and Biology, 2021, 66, 115007.	1.6	9
10	Pattern classification for breast lesion on FFDM by integration of radiomics and deep features. Computerized Medical Imaging and Graphics, 2021, 90, 101922.	3.5	2
11	Contrast-Medium Anisotropy-Aware Tensor Total Variation Model for Robust Cerebral Perfusion CT Reconstruction With Low-Dose Scans. IEEE Transactions on Computational Imaging, 2020, 6, 1375-1388.	2.6	7
12	CaGAN: A Cycle-Consistent Generative Adversarial Network With Attention for Low-Dose CT Imaging. IEEE Transactions on Computational Imaging, 2020, 6, 1203-1218.	2.6	48
13	MDM-PCCT: Multiple Dynamic Modulations for High-Performance Spectral PCCT Imaging. IEEE Transactions on Medical Imaging, 2020, 39, 3630-3642.	5.4	1
14	Full-Spectrum-Knowledge-Aware Tensor Model for Energy-Resolved CT Iterative Reconstruction. IEEE Transactions on Medical Imaging, 2020, 39, 2831-2843.	5.4	10
15	An Efficient Iterative Cerebral Perfusion CT Reconstruction via Low-Rank Tensor Decomposition With Spatialâ€"Temporal Total Variation Regularization. IEEE Transactions on Medical Imaging, 2019, 38, 360-370.	5.4	27
16	Task-driven Deep Learning Network for Dynamic Cerebral Perfusion Computed Tomography Protocol Determination. , 2019, , .		0
17	Direct Energy-resolving CT Imaging via Energy-integrating CT images using a Unified Generative Adversarial Network. , 2019, , .		0
18	Blind CT Image Quality Assessment via Deep Learning Framework. , 2019, , .		8

#	Article	IF	Citations
19	Task-oriented Deep Network for Ischemic Stroke Segmentation in Unenhanced CT Imaging. , 2019, , .		1
20	Teacher-student Network for CT Image Reconstruction via Meta-learning Strategy. , 2019, , .		3
21	Multi-energy computed tomography reconstruction using a nonlocal spectral similarity model. Physics in Medicine and Biology, 2019, 64, 035018.	1.6	15
22	Contrast-medium anisotropy-aware tensor total variation model for robust cerebral perfusion CT reconstruction with weak radiation: a preliminary study. , 2019, , .		2
23	Photon Counting Computed Tomography Image Restoration via Mixture Gaussian Noise Model: Initial Study. , 2018, , .		0
24	Radiomics-based prediction of symptomatic intracerebral hemorrhage before thrombolysis therapy in unenhanced CT imaging. , 2018, , .		0
25	Spatio-temporal Constrained Adaptive Sinogram Restoration for Low-dose Dynamic Cerebral Perfusion CT Imaging. , 2018, , .		2
26	A computer-aided diagnosis scheme of breast lesion classification using GLGLM and shape features: Combined-view and multi-classifiers. Physica Medica, 2018, 55, 61-72.	0.4	10
27	A Deep Features-based Radiomics Model for Breast Lesion Classification on FFDM. , 2018, , .		1
28	Iterative reconstruction for low dose dual energy CT using information-divergence constrained spectral redundancy information. Journal of X-Ray Science and Technology, 2018, 26, 311-330.	0.7	5
29	Regularization strategies in statistical image reconstruction of low‐dose x‐ray <scp>CT</scp>: A review. Medical Physics, 2018, 45, e886-e907.	1.6	35
30	Applications of nonlocal means algorithm in low‐dose X‐ray <scp>CT</scp> image processing and reconstruction: A review. Medical Physics, 2017, 44, 1168-1185.	1.6	79
31	Iterative reconstruction for sparse-view X-ray CT using alpha-divergence constrained total generalized variation minimization. Journal of X-Ray Science and Technology, 2017, 25, 673-688.	0.7	14
32	Low‐dose dynamic myocardial perfusion CT imaging using a motion adaptive sparsity prior. Medical Physics, 2017, 44, e188-e201.	1.6	13
33	Motion guided Spatiotemporal Sparsity for high quality 4D-CBCT reconstruction. Scientific Reports, 2017, 7, 17461.	1.6	9
34	Low-Dose Dynamic Cerebral Perfusion Computed Tomography Reconstruction via Kronecker-Basis-Representation Tensor Sparsity Regularization. IEEE Transactions on Medical Imaging, 2017, 36, 2546-2556.	5.4	27
35	Cerebral perfusion computed tomography deconvolution via structure tensor total variation regularization. Medical Physics, 2016, 43, 2091-2107.	1.6	29
36	Robust low-dose dynamic cerebral perfusion CT image restoration via coupled dictionary learning scheme. Journal of X-Ray Science and Technology, 2016, 24, 837-853.	0.7	8

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37	Penalized weighted least-squares approach for multienergy computed tomography image reconstruction via structure tensor total variation regularization. Computerized Medical Imaging and Graphics, 2016, 53, 19-29.	3.5	37
38	Robust dynamic myocardial perfusion CT deconvolution for accurate residue function estimation via adaptive-weighted tensor total variation regularization: a preclinical study. Physics in Medicine and Biology, 2016, 61, 8135-8156.	1.6	14
39	Noise suppression for cerebral perfusion CT via intrinsic tensor sparsity regularization: Initial study. , 2016, , .		0
40	Statistical image reconstruction for low-dose dual energy CT using alpha-divergence constrained spectral redundancy information. , 2016, , .		0
41	Spectral CT Image Restoration via an Average Image-Induced Nonlocal Means Filter. IEEE Transactions on Biomedical Engineering, 2016, 63, 1044-1057.	2.5	69
42	A Simple Low-Dose X-Ray CT Simulation From High-Dose Scan. IEEE Transactions on Nuclear Science, 2015, 62, 2226-2233.	1.2	109
43	Spectral CT image restoration using average image induced nonlocal means filter. , 2014, , .		0
44	Dynamic Positron Emission Tomography Image Restoration via a Kinetics-Induced Bilateral Filter. PLoS ONE, 2014, 9, e89282.	1.1	22
45	An improved ring artifact removal approach for flat-panel detector based computed tomography images. , 2013, , .		0