

# Image reconstruction in circular cone-beam computed total-variation minimization

Physics in Medicine and Biology

53, 4777-4807

DOI: [10.1088/0031-9155/53/17/021](https://doi.org/10.1088/0031-9155/53/17/021)

Citation Report

#	ARTICLE	IF	CITATIONS
4	800MHz-Band OFDM UHF Link. , 1999, , .		0
5	Four-quark condensates and chiral symmetry restoration in a resonance gas model. Journal of Physics G: Nuclear and Particle Physics, 2006, 32, 2199-2217.	1.4	20
6	Emission Spectroscopy of Eu-Doped CaF <sub>2</sub> under Static and Dynamic High Pressures. Japanese Journal of Applied Physics, 2007, 46, 6696.	0.8	9
7	Preliminary study on the impact of digital breast tomosynthesis scanning angle on micro-calcification imaging. , 2008, , .		0
8	Why do commercial CT scanners still employ traditional, filtered back-projection for image reconstruction?. Inverse Problems, 2009, 25, 123009.	1.0	417
9	A simplified implementation of total variation iterative reconstruction algorithm suitable for parallel computation. , 2009, , .		0
10	A comparison of 4D cone-beam CT algorithms for slowly rotating scanners. , 2009, , .		0
11	An investigation of compressive-sensing image reconstruction from flying-focal-spot CT data. , 2009, 2009, 3458-3462.		1
12	A general region-of-interest image reconstruction approach with truncated Hilbert transform. Journal of X-Ray Science and Technology, 2009, 17, 135-152.	0.7	36
13	Compressed sensing based interior tomography. Physics in Medicine and Biology, 2009, 54, 2791-2805.	1.6	458
14	Prior-image-based few-view cone beam CT for applications to daily scan in image-guided radiation therapy: preliminary study. Proceedings of SPIE, 2009, , .	0.8	9
15	Charged-particle pseudorapidity distributions in Au+Au collisions at RHIC. Chinese Physics C, 2009, 33, 274-280.	1.5	2
16	Acceptable coupling losses in twisted cables with current sharing by connecting the superconducting strands with normal metal plates. Superconductor Science and Technology, 2009, 22, 075006.	1.8	0
17	Performance comparison between total variation (TV)-based compressed sensing and statistical iterative reconstruction algorithms. Physics in Medicine and Biology, 2009, 54, 5781-5804.	1.6	264
18	Radiation dose reduction in computed tomography: techniques and future perspective. Imaging in Medicine, 2009, 1, 65-84.	0.0	296
19	A Dynamic CT Image Reconstruction Method by Inducing Prior Information from PCA Analysis. , 2009, , .		0
20	Boundary reconstruction in limited-angle x-ray phase-contrast tomography. , 2009, , .		2
21	Enhanced imaging of microcalcifications in digital breast tomosynthesis through improved image reconstruction algorithms. Medical Physics, 2009, 36, 4920-4932.	1.6	157

#	ARTICLE	IF	CITATIONS
22	Compressive inverse scattering using ultrashort pulses. , 2010, , .		2
23	Recent Development of Low-dose X-ray Cone-beam Computed Tomography. Current Medical Imaging, 2010, 6, 72-81.	0.4	20
24	A novel off-axis scanning method for an enlarged ellipse cone-beam computed tomography field of view. Medical Physics, 2010, 37, 6233-6239.	1.6	8
25	A binary image reconstruction technique for accurate determination of the shape and location of metal objects in x-ray computed tomography. Journal of X-Ray Science and Technology, 2010, 18, 403-414.	0.7	17
26	Noise texture and signal detectability in propagation-based x-ray phase-contrast tomography. Medical Physics, 2010, 37, 270-281.	1.6	15
27	Selective-diffusion regularization for enhancement of microcalcifications in digital breast tomosynthesis reconstruction. Medical Physics, 2010, 37, 6003-6014.	1.6	35
28	Tomographic retrieval of cloud liquid water fields from a single scanning microwave radiometer aboard a moving platform " Part 1: Field trial results from the Wakasa Bay experiment. Atmospheric Chemistry and Physics, 2010, 10, 6685-6697.	1.9	3
29	Anisotropic total variation for limited-angle CT reconstruction. , 2010, , .		21
30	Evaluation of sparse-view reconstruction from flat-panel-detector cone-beam CT. Physics in Medicine and Biology, 2010, 55, 6575-6599.	1.6	314
31	Reconstruction of 3D dynamic contrast-enhanced magnetic resonance imaging using nonlocal means. Journal of Magnetic Resonance Imaging, 2010, 32, 1217-1227.	1.9	40
32	Investigation of sparse data mouse imaging using micro-CT with a carbon-nanotube-based X-ray source. Tsinghua Science and Technology, 2010, 15, 74-78.	4.1	7
33	What happens after calling the ambulance: Information, communication, and acceptance issues in a telemedical workflow. , 2010, , .		11
35	Non-convex prior image constrained compressed sensing (NC-PICCS). , 2010, , .		7
36	Preliminary investigation of dose allocation in low-dose cone-beam CT. , 2010, , .		0
37	Combining scatter reduction and correction to improve image quality in cone-beam computed tomography (CBCT). Medical Physics, 2010, 37, 5634-5644.	1.6	73
38	CT reconstruction based on improved total variation minimization. , 2010, , .		0
39	An algorithm for computed tomography image reconstruction from limited-view projections. Chinese Physics B, 2010, 19, 088106.	0.7	14
40	Low-dose CT in SPECT/CT patient scan. , 2010, , .		0

#	ARTICLE	IF	CITATIONS
41	Improving Undersampled MRI Reconstruction Using Non-local Means. , 2010, , .		4
42	High resolution image reconstruction with constrained, total-variation minimization. , 2010, , .		1
43	Improved sparsity-constrained image reconstruction applied to clinical CT data. , 2010, , .		2
44	Scatter correction for cone-beam computed tomography using moving blocker strips: A preliminary study. Medical Physics, 2010, 37, 5792-5800.	1.6	53
45	Compressed sensing based cone-beam computed tomography reconstruction with a first-order	1.6	212
46	Investigation of low-contrast tumor detection in algorithm-enabled low-dose CBCT. , 2010, , .		0
47	Performance evaluation of iterative image reconstruction algorithms for non-sparse object reconstruction. , 2010, , .		0
48	Image reconstruction from a reduced number of projections in Micro-CT specimen imaging. , 2010, , .		0
49	Comparison of reconstruction algorithms for sparse-array detection photoacoustic tomography. Proceedings of SPIE, 2010, , .	0.8	4
50	An investigation of 4D cone-beam CT algorithms for slowly rotating scanners. Medical Physics, 2010, 37, 5044-5053.	1.6	74
51	Perfusion measurements by micro-CT using prior image constrained compressed sensing (PICCS): initial phantom results. Physics in Medicine and Biology, 2010, 55, 2333-2350.	1.6	44
52	Temporal resolution improvement in cardiac CT using PICCS (TRI-PICCS): Performance studies. Medical Physics, 2010, 37, 4377-4388.	1.6	63
53	Simultaneous segmentation and reconstruction: A level set method approach for limited view computed tomography. Medical Physics, 2010, 37, 2329-2340.	1.6	22
54	Total variation superiorization schemes in proton computed tomography image reconstruction. Medical Physics, 2010, 37, 5887-5895.	1.6	106
55	Image reconstruction exploiting object sparsity in boundary-enhanced X-ray phase-contrast tomography. Optics Express, 2010, 18, 10404.	1.7	47
56	GPU-based fast cone beam CT reconstruction from undersampled and noisy projection data via total variation. Medical Physics, 2010, 37, 1757-1760.	1.6	208
57	The iterative next-neighbor regridding (INNG) algorithm combined with TV regularization used for reconstruction in diffraction tomography. , 2010, , .		0
58	A new iterative reconstruction algorithm for 2D exterior fan-beam CT. Journal of X-Ray Science and Technology, 2010, 18, 267-277.	0.7	17

#	ARTICLE	IF	CITATIONS
59	Reconstruction From Limited-Angle Projections Based on $\delta$ -u Spectrum Analysis. IEEE Transactions on Image Processing, 2010, 19, 131-140.	6.0	9
60	A variational approach for reconstructing low dose images in clinical helical CT. , 2010, , .		4
61	A new approach for low dose CT reconstruction with highly sparse projections. , 2010, , .		0
62	Effects of piecewise smoothing on cardiac SPECT reconstruction. , 2011, , .		2
63	A novel alternative algorithm for limited angle tomography. , 2011, , .		2
64	Effects of the penalty on the penalized weighted least-squares image reconstruction for low-dose CBCT. Physics in Medicine and Biology, 2011, 56, 5535-5552.	1.6	37
65	Sparse Sampling in MRI. Biological and Medical Physics Series, 2011, , 319-339.	0.3	1
66	Interior regionâ€œinterest reconstruction using a small, nearly piecewise constant subregion. Medical Physics, 2011, 38, 1307-1312.	1.6	24
69	GPU-based iterative cone-beam CT reconstruction using tight frame regularization. Physics in Medicine and Biology, 2011, 56, 3787-3807.	1.6	162
70	Low-dose CT reconstruction via edge-preserving total variation regularization. Physics in Medicine and Biology, 2011, 56, 5949-5967.	1.6	305
71	Metal artifact reduction in x-ray computed tomography (CT) by constrained optimization. Medical Physics, 2011, 38, 701-711.	1.6	130
72	Dynamic tomography with a priori information. Applied Optics, 2011, 50, 3685.	2.1	43
73	Coding for compressive focal tomography. Applied Optics, 2011, 50, 4436.	2.1	12
74	Iterative reconstruction in x-ray computed laminography from differential phase measurements. Optics Express, 2011, 19, 16560.	1.7	23
75	An investigation on computed tomography image reconstruction with compressed sensing by $l_1$ norm prior image constraints. , 2011, , .		1
76	Sparsity driven metal part reconstruction for artifact removal in dental CT. Journal of X-Ray Science and Technology, 2011, 19, 457-475.	0.7	19
77	Some proximal methods for CBCT and PET tomography. , 2011, , .		4
78	Level estimation for sparse reconstruction in discrete tomography. , 2011, , .		1

#	ARTICLE	IF	CITATIONS
79	Image reconstruction of sparse fan-beam projections using a hybrid algorithm. , 2011, , .		0
80	A strategy to decrease partial scan reconstruction artifacts in myocardial perfusion CT: Phantom and <i>in vivo</i> evaluation. Medical Physics, 2011, 39, 214-223.	1.6	20
81	Image reconstruction by an alternating minimisation. Neurocomputing, 2011, 74, 661-670.	3.5	14
82	DART: A Practical Reconstruction Algorithm for Discrete Tomography. IEEE Transactions on Image Processing, 2011, 20, 2542-2553.	6.0	253
83	Hybrid Cone-Beam Tomographic Reconstruction: Incorporation of Prior Anatomical Models to Compensate for Missing Data. IEEE Transactions on Medical Imaging, 2011, 30, 69-83.	5.4	23
84	Algorithm-Enabled Low-Dose Micro-CT Imaging. IEEE Transactions on Medical Imaging, 2011, 30, 606-620.	5.4	123
85	Statistical Interior Tomography. IEEE Transactions on Medical Imaging, 2011, 30, 1116-1128.	5.4	77
86	Guest Editorial Compressive Sensing for Biomedical Imaging. IEEE Transactions on Medical Imaging, 2011, 30, 1013-1016.	5.4	40
87	Inter-plane artifact suppression in tomosynthesis using 3D CT image data. BioMedical Engineering OnLine, 2011, 10, 106.	1.3	1
88	Sparse-view CT imaging of trabecular bones: Comparison of image reconstruction methods. Biomedical Engineering Letters, 2011, 1, 188-193.	2.1	3
89	A compressed sensing-based iterative algorithm for CT reconstruction and its possible application to phase contrast imaging. BioMedical Engineering OnLine, 2011, 10, 73.	1.3	34
91	Sparse angular CT reconstruction using non-local means based iterative-correction POCS. Computers in Biology and Medicine, 2011, 41, 195-205.	3.9	45
92	Optimization for limited angle tomography in medical image processing. Pattern Recognition, 2011, 44, 2427-2435.	5.1	31
93	Four-dimensional volume-of-interest reconstruction for cone-beam computed tomography-guided radiation therapy. Medical Physics, 2011, 38, 5646-5656.	1.6	20
94	A constrained, total-variation minimization algorithm for low-intensity x-ray CT. Medical Physics, 2011, 38, S117-S125.	1.6	87
95	Initial experience in image reconstruction from limited-angle C-arm CBCT data. , 2011, , .		1
96	A preliminary study of image reconstruction from low-dose data in dedicated breast CT. , 2011, , .		0
97	Low dose CT technique using prior image knowledge. , 2011, , .		0

#	ARTICLE	IF	CITATIONS
98	Iterative image reconstruction with variable resolution in CT. , 2011, , .		2
99	Application of anisotropic diffusion potential to sparse view reconstruction problem. , 2011, , .		1
100	Sparse-view image reconstruction from gated cardiac data. , 2011, , .		1
101	Image reconstruction from sparse data in synchrotron-radiation-based microtomography. Review of Scientific Instruments, 2011, 82, 043706.	0.6	8
102	Ensuring convergence in total-variation-based reconstruction for accurate microcalcification imaging in breast X-ray CT. , 2011, , .		2
103	LO constrained sparse reconstruction for multi-slice helical CT reconstruction. Physics in Medicine and Biology, 2011, 56, 1173-1189.	1.6	16
104	4D micro-CT for cardiac and perfusion applications with view under sampling. Physics in Medicine and Biology, 2011, 56, 3351-3369.	1.6	37
105	THE EIGHTH DATA RELEASE OF THE SLOAN DIGITAL SKY SURVEY: FIRST DATA FROM SDSS-III. Astrophysical Journal, Supplement Series, 2011, 193, 29.	3.0	1,166
106	Penalized-likelihood reconstruction for sparse data acquisitions with unregistered prior images and compressed sensing penalties. , 2011, , .		21
107	Imaging Biomarkers in Atherosclerosis Trials. Circulation: Cardiovascular Imaging, 2011, 4, 319-333.	1.3	63
108	A compressed sensing algorithm for sparse-view pinhole Single Photon Emission Computed Tomography. , 2011, , .		1
109	An algorithm for total variation regularization in high-dimensional linear problems. Inverse Problems, 2011, 27, 065002.	1.0	73
110	Low-dose dual-energy cone-beam CT using a total-variation minimization algorithm. Proceedings of SPIE, 2011, , .	0.8	4
111	High-quality image reconstruction from exterior helical cone-beam CT data for NDE of industrial pipelines. Insight: Non-Destructive Testing and Condition Monitoring, 2011, 53, 534-541.	0.3	9
112	Improved total variation regularized image reconstruction (iTV) applied to clinical CT data. Proceedings of SPIE, 2011, , .	0.8	0
113	Tomosynthesis imaging with 2D scanning trajectories. , 2011, , .		1
114	Four-dimensional volume-of-interest reconstruction for cone-beam computerized tomography based image-guided radiation therapy of the lung. Proceedings of SPIE, 2011, , .	0.8	0
115	Scatter correction for cone-beam computed tomography using moving blocker strips. , 2011, , .		0

#	ARTICLE	IF	CITATIONS
116	Total variation smoothed maximum penalized likelihood tomographic reconstruction with positivity constraints. , 2011, , .		0
117	Frequency extrapolation by nonconvex compressive sensing. , 2011, , .		6
118	Improved total variation-based CT image reconstruction applied to clinical data. Physics in Medicine and Biology, 2011, 56, 1545-1561.	1.6	263
119	Prior image constrained compressed sensing: Implementation and performance evaluation. Medical Physics, 2011, 39, 66-80.	1.6	96
120	Nonconvex prior image constrained compressed sensing (NCPICCS): Theory and simulations on perfusion CT. Medical Physics, 2011, 38, 2157-2167.	1.6	64
121	Application of Diode-Laser-Based Measurements in Hypersonic Flows. , 2012, , .		3
122	Time-resolved cardiac interventional cone-beam CT reconstruction from fully truncated projections using the prior image constrained compressed sensing (PICCS) algorithm. Physics in Medicine and Biology, 2012, 57, 2461-2476.	1.6	48
123	Achieving Routine Submillisievert CT Scanning: Report from the Summit on Management of Radiation Dose in CT. Radiology, 2012, 264, 567-580.	3.6	246
124	Gradient-flow-based semi-implicit finite-element method and its convergence analysis for image reconstruction. Inverse Problems, 2012, 28, 035006.	1.0	4
125	Fast compressed sensing-based CBCT reconstruction using Barzilai-Borwein formulation for application to on-line IGRT. Medical Physics, 2012, 39, 1207-1217.	1.6	125
126	Generation of a 3D isotropic hollow focal spot for single-objective stimulated emission depletion microscopy. Journal of Optics (United Kingdom), 2012, 14, 085704.	1.0	11
127	A Compton scattering image reconstruction algorithm based on total variation minimization. Chinese Physics B, 2012, 21, 108703.	0.7	8
128	Null-space function estimation for the interior problem. Physics in Medicine and Biology, 2012, 57, 1873-1887.	1.6	10
129	Scatter correction in cone-beam CT via a half beam blocker technique allowing simultaneous acquisition of scatter and image information. Medical Physics, 2012, 39, 2386-2395.	1.6	43
130	Target-specific optimization of four-dimensional cone beam computed tomography. Medical Physics, 2012, 39, 5683-5696.	1.6	9
131	Accelerated barrier optimization compressed sensing (ABOCS) reconstruction for cone-beam CT: Phantom studies. Medical Physics, 2012, 39, 4588-4598.	1.6	74
132	Gap compensation during PET image reconstruction by constrained, total variation minimization. Medical Physics, 2012, 39, 589-602.	1.6	26
133	Investigation of discrete imaging models and iterative image reconstruction in differential X-ray phase-contrast tomography. Optics Express, 2012, 20, 10724.	1.7	34



#	ARTICLE	IF	CITATIONS
134	Strategy of computed tomography sinogram inpainting based on sinusoid-like curve decomposition and eigenvector-guided interpolation. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2012, 29, 153.	0.8	20
135	A comparison study of low-dose CT image reconstruction strategies by adapted weighted total variation regularization. , 2012, , .		0
136	Fast dynamic reconstruction algorithm with joint bilateral filtering for perfusion C-arm CT. , 2012, , .		3
137	Accelerated barrier optimization compressed sensing (ABOCS) reconstruction: Performance evaluation for cone-beam CT. , 2012, , .		1
138	GISTA reconstructs faster with a restart strategy and even faster with a FISTA-like reconstruction. , 2012, , .		2
139	Motion registration and correction based iterative reconstruction method for instant CT. , 2012, , .		1
140	4-D motion field estimation by Combined Multiple Heart Phase Registration (CMHPR) for cardiac C-arm data. , 2012, , .		1
141	A reweighted total variation minimization method for few view CT reconstruction in the instant CT. , 2012, , .		1
142	Statistical image reconstruction from limited projection data with intensity priors. Physics in Medicine and Biology, 2012, 57, 2039-2061.	1.6	32
143	Bunched sparse-view CT using a moving multi-slit collimator. , 2012, , .		0
144	Constrained TV-minimization image reconstruction from sparse-view diagnostic CT data. , 2012, , .		0
145	Reconstruction from truncated projections using constrained total-variation minimization applied to PET for hadron-therapy monitoring. , 2012, , .		0
146	Quantitative three-dimensional reconstruction of limited-angle experimental measurements in diffraction tomography. , 2012, , .		1
147	SIFT-based motion registration for sequence images of instant CT. , 2012, , .		1
148	Fast parallel algorithms for the x-ray transform and its adjoint. Medical Physics, 2012, 39, 7110-7120.	1.6	74
149	A first-order primal-dual reconstruction algorithm for few-view SPECT. , 2012, , .		0
150	Low-dose quantitative cone-beam CT imaging in radiation therapy. , 2012, , .		1
151	Limited angle geometries applied to small animal X-ray imaging. , 2012, , .		1

#	ARTICLE	IF	CITATIONS
152	Polynomial accelerated algorithm base on minimizing TV for computerized tomographic image reconstruction. , 2012, , .		0
153	Practical interior tomography with radial Hilbert filtering and a priori knowledge in a small round area. Journal of X-Ray Science and Technology, 2012, 20, 405-422.	0.7	13
154	Dose limitations for the estimation of functional cardiac parameters in rodents. , 2012, , .		0
155	A preliminary investigation of CT-dose reduction in SPECT/CBCT. , 2012, , .		0
156	A preliminary investigation of image reconstruction with variable resolutions in diagnostic CT. , 2012, , .		0
157	Effects of discrete versus continuous prior image in sparse-view CT. , 2012, , .		0
158	Many-view under-sampling (MVUS) technique for low-dose CT: Dose versus image quality. , 2012, , .		0
159	Feasibility study on many-view under-sampling technique for low-dose computed tomography. Optical Engineering, 2012, 51, 080501.	0.5	27
160	Interior tomography with radial Hilbert filtering and <i>a priori</i> information in a small circular area. Proceedings of SPIE, 2012, , .	0.8	1
161	Accelerated augmented Lagrangian method for few-view CT reconstruction. Proceedings of SPIE, 2012, , .	0.8	0
162	Sampling conditions for gradient-magnitude sparsity based image reconstruction algorithms. , 2012, , .		1
163	Low-dose and scatter-free cone-beam CT imaging: a preliminary study. Proceedings of SPIE, 2012, , .	0.8	2
164	A differential equations approach to $l_1$ -minimization with applications to array imaging. Inverse Problems, 2012, 28, 105001.	1.0	16
165	The silicon route to a primary realization of the new kilogram. Metrologia, 2012, 49, L25-L27.	0.6	28
166	Improved compressed sensing-based cone-beam CT reconstruction using adaptive prior image constraints. Physics in Medicine and Biology, 2012, 57, 2287-2307.	1.6	73
167	Iterative 4D cardiac micro-CT image reconstruction using an adaptive spatio-temporal sparsity prior. Physics in Medicine and Biology, 2012, 57, 1517-1525.	1.6	79
168	Ground-truth verification of dynamic x-ray micro-tomography images of fluid displacement. , 2012, , .		3
169	A preliminary investigation of reduced-view image reconstruction from low dose breast CT data. Proceedings of SPIE, 2012, , .	0.8	2

#	ARTICLE	IF	CITATIONS
170	Low-dose computed tomography image reconstruction from under-sampling data based on weighted total variation minimization. , 2012, , .		2
171	Dose optimization with first-order total-variation minimization for dense angularly sampled and sparse intensity modulated radiation therapy (DASSIM-RT). Medical Physics, 2012, 39, 4316-4327.	1.6	11
172	Characterization of statistical prior image constrained compressed sensing. I. Applications to time-resolved contrast-enhanced CT. Medical Physics, 2012, 39, 5930-5948.	1.6	24
173	Model-Based Tomographic Reconstruction of Objects Containing Known Components. IEEE Transactions on Medical Imaging, 2012, 31, 1837-1848.	5.4	68
174	Total variation based gradient descent algorithm for sparse-view photoacoustic image reconstruction. Ultrasonics, 2012, 52, 1046-1055.	2.1	50
175	Solving Ill-Posed Linear Systems With Constraints on Statistical Moments. IEEE Signal Processing Letters, 2012, 19, 103-106.	2.1	1
176	Visualization of Astronomical Nebulae via Distributed Multi-GPU Compressed Sensing Tomography. IEEE Transactions on Visualization and Computer Graphics, 2012, 18, 2188-2197.	2.9	10
177	Optimization-based reconstruction of sparse images from few-view projections. Physics in Medicine and Biology, 2012, 57, 5245-5273.	1.6	98
178	Noise reduction in low-dose cone beam CT by incorporating prior volumetric image information. Medical Physics, 2012, 39, 2569-2577.	1.6	18
179	A comprehensive study on the relationship between the image quality and imaging dose in low-dose cone beam CT. Physics in Medicine and Biology, 2012, 57, 2063-2080.	1.6	75
180	An improved non-local means regularized iterative reconstruction method for low-dose dental CBCT. , 2012, , .		4
181	Bone-induced streak artifact suppression in sparse-view CT image reconstruction. BioMedical Engineering OnLine, 2012, 11, 44.	1.3	17
182	Advances in 4D radiation therapy for managing respiration: Part I - 4D imaging. Zeitschrift Fur Medizinische Physik, 2012, 22, 258-271.	0.6	52
183	Compressed-sensing (CS)-based micro-DTS reconstruction for applications of fast, low-dose x-ray imaging. Journal of the Korean Physical Society, 2012, 61, 1120-1124.	0.3	5
184	Total variation minimization-based spiral CT reconstruction in a dental panoramic imaging system for cost-effective, low-dose dental X-ray imaging. Journal of the Korean Physical Society, 2012, 61, 1846-1851.	0.3	0
185	Sparse-view image reconstruction in inverse-geometry CT (IGCT) for fast, low-dose, volumetric dental X-ray imaging. Journal of the Korean Physical Society, 2012, 61, 2084-2090.	0.3	1
186	Superiorization: An optimization heuristic for medical physics. Medical Physics, 2012, 39, 5532-5546.	1.6	64
187	Reconstruction algorithm for point source neutron imaging through finite thickness scintillator. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2012, 693, 294-301.	0.7	5

#	ARTICLE	IF	CITATIONS
188	Volume-of-change cone-beam CT for image-guided surgery. <i>Physics in Medicine and Biology</i> , 2012, 57, 4969-4989.	1.6	13
189	Efficient low-dose CT artifact mitigation using an artifact-matched prior scan. <i>Medical Physics</i> , 2012, 39, 4748-4760.	1.6	24
190	Image features for misalignment correction in medical flat-detector CT. <i>Medical Physics</i> , 2012, 39, 4918-4931.	1.6	39
191	Convex optimization problem prototyping for image reconstruction in computed tomography with the Chambolle-Pock algorithm. <i>Physics in Medicine and Biology</i> , 2012, 57, 3065-3091.	1.6	273
192	Adaptive-weighted total variation minimization for sparse data toward low-dose x-ray computed tomography image reconstruction. <i>Physics in Medicine and Biology</i> , 2012, 57, 7923-7956.	1.6	265
193	Spatial-temporal total variation regularization (STTVR) for 4D-CT reconstruction. <i>Proceedings of SPIE</i> , 2012, , .	0.8	21
194	Evaluation of robustness of maximum likelihood cone-beam CT reconstruction with total variation regularization. <i>Physics in Medicine and Biology</i> , 2012, 57, 5955-5970.	1.6	20
195	Optical Measurements at the Combustor Exit of the HIFiRE 2 Ground Test Engine. , 2012, , .		23
196	High resolution 2D dose measurement device based on a few long scintillating fibers and tomographic	1.6	18
197	Image Reconstruction from Sparse Projections Using S-Transform. <i>Journal of Mathematical Imaging and Vision</i> , 2012, 43, 227-239.	0.8	9
198	Regularising limited view tomography using anatomical reference images and information theoretic similarity metrics. <i>Medical Image Analysis</i> , 2012, 16, 278-300.	7.0	9
199	An Active Contour Method for Bone Cement Reconstruction From C-Arm X-Ray Images. <i>IEEE Transactions on Medical Imaging</i> , 2012, 31, 860-869.	5.4	8
200	Time-Resolved Interventional Cardiac C-arm Cone-Beam CT: An Application of the PICCS Algorithm. <i>IEEE Transactions on Medical Imaging</i> , 2012, 31, 907-923.	5.4	66
201	A Splitting-Based Iterative Algorithm for Accelerated Statistical X-Ray CT Reconstruction. <i>IEEE Transactions on Medical Imaging</i> , 2012, 31, 677-688.	5.4	208
202	Sparse-view image reconstruction in prospectively gated micro-CT for fast and low-dose imaging. <i>Journal of the Korean Physical Society</i> , 2012, 60, 1157-1160.	0.3	5
203	Whole brain susceptibility mapping using compressed sensing. <i>Magnetic Resonance in Medicine</i> , 2012, 67, 137-147.	1.9	328
204	An algebraic iterative reconstruction technique for differential X-ray phase-contrast computed tomography. <i>Zeitschrift Fur Medizinische Physik</i> , 2013, 23, 186-193.	0.6	25
205	A novel scheme to design the filter for CT reconstruction using FBP algorithm. <i>BioMedical Engineering OnLine</i> , 2013, 12, 50.	1.3	14

#	ARTICLE	IF	CITATIONS
206	Iterative method for CT image reconstruction from reduced number of projection views. , 2013, , .		2
207	The Performance of MLEM for Dynamic Imaging From Simulated Few-View, Multi-Pinhole SPECT. IEEE Transactions on Nuclear Science, 2013, 60, 115-123.	1.2	8
208	Experimental study on the application of a compressed-sensing (CS) algorithm to dental cone-beam CT (CBCT) for accurate, low-dose image reconstruction. Journal of the Korean Physical Society, 2013, 62, 834-838.	0.3	3
209	Radial differential interior tomography and its image reconstruction with differentiated backprojection and projection onto convex sets. Medical Physics, 2013, 40, 091914.	1.6	4
210	Few-view image reconstruction combining total variation and a high-order norm. International Journal of Imaging Systems and Technology, 2013, 23, 249-255.	2.7	45
211	Straight-Line-Trajectory-Based X-Ray Tomographic Imaging for Security Inspections: System Design, Image Reconstruction and Preliminary Results. IEEE Transactions on Nuclear Science, 2013, 60, 3955-3968.	1.2	22
212	Analysis of DR testing blind zone of spherical fuel elements for 10MW high-temperature gas-cooled reactor. NDT and E International, 2013, 60, 77-86.	1.7	12
213	Temporal resolution and motion artifacts in single-source and dual-source cardiac CT. Medical Physics, 2013, 40, 031112.	1.6	8
214	Compressed-sensing (CS)-based 3D image reconstruction in cone-beam CT (CBCT) for low-dose, high-quality dental X-ray imaging. Journal of the Korean Physical Society, 2013, 63, 1066-1071.	0.3	5
215	Improving abdomen tumor low-dose CT images using a fast dictionary learning based processing. Physics in Medicine and Biology, 2013, 58, 5803-5820.	1.6	162
216	Improved total variation-based image reconstruction algorithm for linear scan cone-beam computed tomography. Journal of Electronic Imaging, 2013, 22, 033015.	0.5	4
217	Evaluation of interpolation methods for surface-based motion compensated tomographic reconstruction for cardiac angiographic C-arm data. Medical Physics, 2013, 40, 031107.	1.6	13
218	Compressed sensing electron tomography. Ultramicroscopy, 2013, 131, 70-91.	0.8	247
219	Algorithm-enabled high-performance C-arm cone-beam CT angiography of cerebral vasculature. , 2013, , .		0
220	A majorize-minimize memory gradient algorithm applied to X-ray tomography. , 2013, , .		7
221	A new regularization technique for limited-view sound-speed imaging. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2013, 60, 603-613.	1.7	24
222	Preliminary study of optimization-based image reconstruction from dental cone-beam CT data. , 2013, , .		1
223	PET Reconstruction From Truncated Projections Using Total-Variation Regularization for Hadron Therapy Monitoring. IEEE Transactions on Nuclear Science, 2013, 60, 3364-3372.	1.2	14

#	ARTICLE	IF	CITATIONS
224	Dual energy CT reconstruction method for incomplete high energy data. , 2013, , .		0
225	Sparse-view reconstruction from restored low-dose CT projections. , 2013, , .		1
226	Sparse Tomography. SIAM Journal of Scientific Computing, 2013, 35, B644-B665.	1.3	44
227	CT image reconstruction based on combination of iterative reconstruction technique and total variation. , 2013, , .		1
228	Iterative CT Reconstruction Using Shearlet-Based Regularization. IEEE Transactions on Nuclear Science, 2013, 60, 3305-3317.	1.2	55
229	Denoising low dose CT images via 3D total variation using CUDA. , 2013, , .		4
230	Quantifying Admissible Undersampling for Sparsity-Exploiting Iterative Image Reconstruction in X-Ray CT. IEEE Transactions on Medical Imaging, 2013, 32, 460-473.	5.4	117
231	X-Ray CT Image Reconstruction via Wavelet Frame Based Regularization and Radon Domain Inpainting. Journal of Scientific Computing, 2013, 54, 333-349.	1.1	66
232	Expectation maximization (EM) algorithms using polar symmetries for computed tomography (CT) image reconstruction. Computers in Biology and Medicine, 2013, 43, 1053-1061.	3.9	9
233	Nonparametric optimization of constrained total variation for tomography reconstruction. Computers in Biology and Medicine, 2013, 43, 2163-2176.	3.9	11
234	A new approach to the investigation of nanoparticles: Electron tomography with compressed sensing. Journal of Colloid and Interface Science, 2013, 392, 7-14.	5.0	28
235	Micro-CT image reconstruction based on alternating direction augmented Lagrangian method and total variation. Computerized Medical Imaging and Graphics, 2013, 37, 419-429.	3.5	3
236	Volumetric image reconstruction in a dental panoramic imaging system with a limited-angle zigzag scan geometry. Journal of the Korean Physical Society, 2013, 62, 333-338.	0.3	0
237	Coded Hyperspectral Imaging and Blind Compressive Sensing. SIAM Journal on Imaging Sciences, 2013, 6, 782-812.	1.3	59
238	Motion-Compensated Mega-Voltage Cone Beam CT Using the Deformation Derived Directly From 2D Projection Images. IEEE Transactions on Medical Imaging, 2013, 32, 1365-1375.	5.4	9
239	Iterative total-variation reconstruction versus weighted filtered-backprojection reconstruction with edge-preserving filtering. Physics in Medicine and Biology, 2013, 58, 3413-3431.	1.6	24
240	A hybrid metal artifact reduction algorithm for x-ray CT. Medical Physics, 2013, 40, 041910.	1.6	67
241	4D Modeling and Estimation of Respiratory Motion for Radiation Therapy. Biological and Medical Physics Series, 2013, , .	0.3	26

#	ARTICLE	IF	CITATIONS
242	Fast Tomographic Reconstruction From Limited Data Using Artificial Neural Networks. IEEE Transactions on Image Processing, 2013, 22, 5238-5251.	6.0	95
243	Modelling the physics in the iterative reconstruction for transmission computed tomography. Physics in Medicine and Biology, 2013, 58, R63-R96.	1.6	163
244	Digital holographic microtomography for high-resolution refractive index mapping of live cells. Journal of Biophotonics, 2013, 6, 416-424.	1.1	53
245	Soft-tissue imaging in low-dose, C-arm cone-beam CT using statistical image reconstruction. , 2013, 8668, .		5
246	Feasibility study on multiple fan-beam data acquisition for low-dose helical CT. , 2013, , .		0
247	Image reconstruction of arc cone-beam CT with reprojection: a preliminary study. , 2013, , .		1
248	Progressive cone beam CT dose control in image-guided radiation therapy. Medical Physics, 2013, 40, 060701.	1.6	22
249	A technique for estimating 4D-CBCT using prior knowledge and limited-angle projections. Medical Physics, 2013, 40, 121701.	1.6	74
250	Fast iterative reconstruction of differential phase contrast X-ray tomograms. Optics Express, 2013, 21, 5511.	1.7	36
251	Effects of sparse sampling schemes on image quality in low-dose CT. Medical Physics, 2013, 40, 111915.	1.6	54
252	A few-view reweighted sparsity hunting (FRESH) method for CT image reconstruction. Journal of X-Ray Science and Technology, 2013, 21, 161-176.	0.7	60
253	Directional sinogram interpolation for sparse angular acquisition in cone-beam computed tomography. Journal of X-Ray Science and Technology, 2013, 21, 481-496.	0.7	14
254	Enhancement of four-dimensional cone-beam computed tomography by compressed sensing with Bregman iteration. Journal of X-Ray Science and Technology, 2013, 21, 177-192.	0.7	6
255	Compressive Sensing Image Sensors-Hardware Implementation. Sensors, 2013, 13, 4961-4978.	2.1	32
256	Image reconstruction based on total-variation minimization and alternating direction method in linear scan computed tomography. Chinese Physics B, 2013, 22, 078701.	0.7	45
257	Simultaneous reduction of radiation dose and scatter for CBCT by using collimators. Medical Physics, 2013, 40, 121913.	1.6	9
258	Personalized estimates of radiation dose from dedicated breast CT in a diagnostic population and comparison with diagnostic mammography. Physics in Medicine and Biology, 2013, 58, 7921-7936.	1.6	46
259	Constrained reconstructions for 4D intervention guidance. Physics in Medicine and Biology, 2013, 58, 3283-3300.	1.6	21

#	ARTICLE	IF	CITATIONS
260	Cluster Structure in Be Isotopes within Point-Coupling Covariant Density Functional. Chinese Physics Letters, 2013, 30, 012101.	1.3	2
261	Optimization-based image reconstruction from sparse-view data in offset-detector CBCT. Physics in Medicine and Biology, 2013, 58, 205-230.	1.6	67
262	X-ray digital intra-oral tomosynthesis for quasi-three-dimensional imaging: system, reconstruction algorithm, and experiments. Optical Engineering, 2013, 52, 013201.	0.5	10
263	Feature constrained compressed sensing CT image reconstruction from incomplete data via robust principal component analysis of the database. Physics in Medicine and Biology, 2013, 58, 4047-4070.	1.6	31
264	DQS advisor: a visual interface and knowledge-based system to balance dose, quality, and reconstruction speed in iterative CT reconstruction with application to NLM-regularization. Physics in Medicine and Biology, 2013, 58, 7857-7873.	1.6	11
265	High-quality four-dimensional cone-beam CT by deforming prior images. Physics in Medicine and Biology, 2013, 58, 231-246.	1.6	72
266	PIRPLE: a penalized-likelihood framework for incorporation of prior images in CT reconstruction. Physics in Medicine and Biology, 2013, 58, 7563-7582.	1.6	45
267	Statistical CT noise reduction with multi-scale decomposition and penalized weighted least square for incomplete projection data. , 2013, , .		0
268	Extra projection data identification method for fast-continuous-rotation industrial cone-beam CT. Journal of X-Ray Science and Technology, 2013, 21, 467-479.	0.7	5
269	Limited-angle cone-beam computed tomography image reconstruction by total variation minimization and piecewise-constant modification. Journal of Inverse and Ill-Posed Problems, 2013, 21, 735-754.	0.5	16
270	Registration-Based Reconstruction of Four-Dimensional Cone Beam Computed Tomography. IEEE Transactions on Medical Imaging, 2013, 32, 2064-2077.	5.4	21
271	A primal dual proximal point method of Chambolle-Pock algorithm for total variation image reconstruction. , 2013, , .		3
272	Dynamic Iterative Reconstruction for Interventional 4-D C-Arm CT Perfusion Imaging. IEEE Transactions on Medical Imaging, 2013, 32, 1336-1348.	5.4	43
273	Optimization-based image reconstruction from low-dose patient breast CT Data. , 2013, , .		0
274	CT reconstruction from few-views by edge guided TV minimization. , 2013, , .		2
275	Constrained TV-minimization reconstruction from exterior CT data. , 2013, , .		1
276	Sequentially reweighted TV minimization for CT metal artifact reduction. Medical Physics, 2013, 40, 071907.	1.6	18
277	Preliminary study of intensity weighted region-of-interest image reconstruction using iterative algorithm. , 2013, , .		0



#	ARTICLE	IF	CITATIONS
278	Guarantees of total variation minimization for signal recovery. , 2013, , .		0
279	A comparison study of total variation stokes strategy for low-dose CT image reconstruction. , 2013, , .		0
280	Adaptive L0 norm constrained reconstructions for sparse-view scan in cone-beam CT. , 2013, , .		0
281	Feasibility study on aperture-based low-dose CT. , 2013, , .		0
282	Investigation of optimization-based reconstruction for intra-operative neurological imaging. , 2013, , .		0
283	TV-based DOI De-blurring model for the dual-head flat-panel PET system. , 2013, , .		0
284	Iterative image reconstruction for ultra-low-dose CT with a combined low-mAs and sparse-view protocol. , 2013, 2013, 5107-10.		3
285	Structural prior enhanced compressed sensing for CT reconstruction with incomplete data. , 2013, , .		1
286	Fast, robust dynamic field-of-view adjustment for iterative reconstruction of dedicated breast CT. , 2013, , .		0
287	Adaptive frequency-domain regularization for sparse-data tomography. Inverse Problems in Science and Engineering, 2013, 21, 1099-1124.	1.2	3
288	Belief-propagation reconstruction for discrete tomography. Inverse Problems, 2013, 29, 035003.	1.0	20
289	Many-view under-sampling (MVUS) technique for low-dose CT. , 2013, , .		0
290	Few-view single photon emission computed tomography (SPECT) reconstruction based on a blurred piecewise constant object model. Physics in Medicine and Biology, 2013, 58, 5629-5652.	1.6	23
291	Super-sparsely view-sampled cone-beam CT by incorporating prior data. Journal of X-Ray Science and Technology, 2013, 21, 71-83.	0.7	13
292	Singleâ€scan patientâ€specific scatter correction in computed tomography using peripheral detection of scatter and compressed sensing scatter retrieval. Medical Physics, 2013, 40, 011907.	1.6	14
293	Motionâ€map constrained image reconstruction (MCIR): Application to fourâ€dimensional coneâ€beam computed tomography. Medical Physics, 2013, 40, 121710.	1.6	19
294	Radiation dose reduction in medical xâ€ray CT via Fourierâ€based iterative reconstruction. Medical Physics, 2013, 40, 031914.	1.6	31
295	Characterization of statistical prior image constrained compressed sensing (PICCS): II. Application to dose reduction. Medical Physics, 2013, 40, 021902.	1.6	55

#	ARTICLE	IF	CITATIONS
296	First study of onâ€treatment volumetric imaging during respiratory gated VMAT. Medical Physics, 2013, 40, 040701.	1.6	18
297	Firstâ€order convex feasibility algorithms for xâ€ray CT. Medical Physics, 2013, 40, 031115.	1.6	21
298	EM tomographic image reconstruction using polar voxels. Journal of Instrumentation, 2013, 8, C01004-C01004.	0.5	9
299	Low-Dose Micro-CT Imaging for Vascular Segmentation and Analysis Using Sparse-View Acquisitions. PLoS ONE, 2013, 8, e68449.	1.1	8
300	Iterative Image Reconstruction for Sparse-View CT Using Normal-Dose Image Induced Total Variation Prior. PLoS ONE, 2013, 8, e79709.	1.1	58
301	Improved Compressed Sensing-Based Algorithm for Sparse-View CT Image Reconstruction. Computational and Mathematical Methods in Medicine, 2013, 2013, 1-15.	0.7	48
302	Low-Dose and Scatter-Free Cone-Beam CT Imaging Using a Stationary Beam Blocker in a Single Scan: Phantom Studies. Computational and Mathematical Methods in Medicine, 2013, 2013, 1-8.	0.7	25
303	Prior Image Guided Undersampled Dual Energy Reconstruction with Piecewise Polynomial Function Constraint. Computational and Mathematical Methods in Medicine, 2013, 2013, 1-7.	0.7	1
304	Distributed Reconstruction via Alternating Direction Method. Computational and Mathematical Methods in Medicine, 2013, 2013, 1-7.	0.7	5
305	Accurate Sparse-Projection Image Reconstruction via Nonlocal TV Regularization. Scientific World Journal, The, 2014, 2014, 1-7.	0.8	7
306	Dual-resolution image reconstruction for region-of-interest CT scan. Journal of Instrumentation, 2014, 9, C07008-C07008.	0.5	3
307	Automatic calibration method of voxel size for cone-beam 3D-CT scanning system. Chinese Physics C, 2014, 38, 046202.	1.5	4
308	dPIRPLE: a joint estimation framework for deformable registration and penalized-likelihood CT image reconstruction using prior images. Physics in Medicine and Biology, 2014, 59, 4799-4826.	1.6	39
309	A compressed sensing approach to low-radiation CT reconstruction. , 2014, , .		4
310	Regularization based CT image reconstruction using Algebraic techniques. , 2014, , .		3
311	Evaluation of imaging protocol for ECT based on CS image reconstruction algorithm. Chinese Physics C, 2014, 38, 048201.	1.5	1
312	A strategy to reduce blocky pattern and contrast loss in emission tomography reconstruction with reduced angular sampling and total variation minimization. Biomedical Engineering Letters, 2014, 4, 362-369.	2.1	3
313	Compressed sampling strategies for tomography. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2014, 31, 1369.	0.8	51

#	ARTICLE	IF	CITATIONS
314	Reconstructing cone-beam CT with spatially varying qualities for adaptive radiotherapy: a proof-of-principle study. <i>Physics in Medicine and Biology</i> , 2014, 59, 6251-6266.	1.6	4
315	Image reconstruction from few views by $\ell_1$ -norm optimization. <i>Chinese Physics B</i> , 2014, 23, 078703.	0.7	28
316	Phase Transitions and Cospase Tomographic Recovery of Compound Solid Bodies from Few Projections. <i>Fundamenta Informaticae</i> , 2014, 135, 73-102.	0.3	47
317	Edge guided image reconstruction in linear scan CT by weighted alternating direction TV minimization. <i>Journal of X-Ray Science and Technology</i> , 2014, 22, 335-349.	0.7	28
318	Clinical use of iterative 4D-cone beam computed tomography reconstructions to investigate respiratory tumor motion in lung cancer patients. <i>Acta Oncologica</i> , 2014, 53, 1107-1113.	0.8	14
319	GPU Based Cone Beam Computed Tomography Reconstruction by the Inexact Alternating Direction Method. <i>Applied Mechanics and Materials</i> , 2014, 519-520, 651-654.	0.2	0
320	Low-mAs X-ray CT image reconstruction by adaptive-weighted TV-constrained penalized re-weighted least-squares. <i>Journal of X-Ray Science and Technology</i> , 2014, 22, 437-457.	0.7	13
321	A stationary computed tomography system with cylindrically distributed sources and detectors. <i>Journal of X-Ray Science and Technology</i> , 2014, 22, 707-725.	0.7	10
322	A Stationary-Sources and Rotating-Detectors Computed Tomography Architecture for Higher Temporal Resolution and Lower Radiation Dose. <i>IEEE Access</i> , 2014, 2, 1263-1271.	2.6	12
323	Analysis of compressed sensing based CT reconstruction with low radiation. , 2014, , .		6
324	Dictionary Learning Based Low-Dose X-Ray CT Reconstruction. , 2014, , 99-119.		6
325	Image reconstruction from limited-angle projections using sparsifying operators. , 2014, , .		0
326	Constrained TV-minimization image reconstruction for industrial CT system. <i>AIP Conference Proceedings</i> , 2014, , .	0.3	2
327	3D imaging of semiconductor components by discrete laminography. , 2014, , .		5
328	Few-view image reconstruction with fractional-order total variation. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2014, 31, 981.	0.8	64
329	Enhancing tissue structures with iterative image reconstruction for digital breast tomosynthesis. <i>Proceedings of SPIE</i> , 2014, , .	0.8	1
330	Preliminary study of region-of-interest image reconstruction with intensity weighting in cone-beam CT using iterative algorithm. <i>Proceedings of SPIE</i> , 2014, , .	0.8	0
331	Using compressive sensing to recover images from PET scanners with partial detector rings. <i>Medical Physics</i> , 2015, 42, 121-133.	1.6	11

#	ARTICLE	IF	CITATIONS
332	Few-view cone-beam CT reconstruction with deformed prior image. <i>Medical Physics</i> , 2014, 41, 121905.	1.6	32
333	Variance-based iterative image reconstruction from few views in limited-angle C-arm computed tomography. <i>Proceedings of SPIE</i> , 2014, . .	0.8	0
334	Low-dose X-ray computed tomography image reconstruction with a combined low-mAs and sparse-view protocol. <i>Optics Express</i> , 2014, 22, 15190.	1.7	41
335	A Fourier-domain algorithm for total-variation regularized phase retrieval in differential X-ray phase contrast imaging. <i>Optics Express</i> , 2014, 22, 450.	1.7	19
336	Construction model for total variation regularization parameter. <i>Optics Express</i> , 2014, 22, 10500.	1.7	51
337	Sparse-view computed laminography with a spherical sinusoidal scan for nondestructive testing. <i>Optics Express</i> , 2014, 22, 17745.	1.7	8
338	An OpenPET scanner with bridged detectors to compensate for incomplete data. <i>Physics in Medicine and Biology</i> , 2014, 59, 6175-6193.	1.6	7
339	Metal artifact reduction for CT-based luggage screening. , 2014, . .		0
340	Combined iterative reconstruction and image-domain decomposition for dual energy CT using total-variation regularization. <i>Medical Physics</i> , 2014, 41, 051909.	1.6	59
341	A Total Variation Spectral Framework for Scale and Texture Analysis. <i>SIAM Journal on Imaging Sciences</i> , 2014, 7, 1937-1961.	1.3	79
342	The Linearized Bregman Method via Split Feasibility Problems: Analysis and Generalizations. <i>SIAM Journal on Imaging Sciences</i> , 2014, 7, 1237-1262.	1.3	73
343	Few views image reconstruction using alternating direction method via $\ell_1$ -norm minimization. <i>International Journal of Imaging Systems and Technology</i> , 2014, 24, 215-223.	2.7	11
344	Assessment of dedicated low-dose cardiac micro-CT reconstruction algorithms using the left ventricular volume of small rodents as a performance measure. <i>Medical Physics</i> , 2014, 41, 051908.	1.6	11
345	Wavelet Frame Based Algorithm for 3D Reconstruction in Electron Microscopy. <i>SIAM Journal of Scientific Computing</i> , 2014, 36, B45-B69.	1.3	19
346	A low-complexity 2-point step size gradient projection method with selective function evaluations for smoothed total variation based CBCT reconstructions. <i>Physics in Medicine and Biology</i> , 2014, 59, 6565-6582.	1.6	11
347	A limited-angle intrafraction verification (LIVE) system for radiation therapy. <i>Medical Physics</i> , 2014, 41, 020701.	1.6	54
348	Issue Information. <i>Scanning</i> , 2014, 36, 377-83.	0.7	6
349	Iterative image-domain decomposition for dual-energy CT. <i>Medical Physics</i> , 2014, 41, 041901.	1.6	107

#	ARTICLE	IF	CITATIONS
350	Cardiac C-arm computed tomography using a 3D + time ROI reconstruction method with spatial and temporal regularization. Medical Physics, 2014, 41, 021903.	1.6	32
351	Second order total generalized variation for low-dose computed tomography image reconstruction. , 2014, , .		0
352	Towards the clinical implementation of iterative low-dose cone-beam CT reconstruction in image-guided radiation therapy: Cone/ring artifact correction and multiple GPU implementation. Medical Physics, 2014, 41, 111912.	1.6	39
353	Image quality in thoracic 4D cone-beam CT: A sensitivity analysis of respiratory signal, binning method, reconstruction algorithm, and projection angular spacing. Medical Physics, 2014, 41, 041912.	1.6	34
354	Low-dose preview for patient-specific, task-specific technique selection in cone-beam CT. Medical Physics, 2014, 41, 071915.	1.6	25
355	Total variation minimization-based multimodality medical image reconstruction. , 2014, , .		0
356	Inexact Distributed Reconstruction via Alternating Direction Method. Applied Mechanics and Materials, 2014, 511-512, 417-420.	0.2	1
357	Dictionary learning based low-dose x-ray CT reconstruction using a balancing principle. , 2014, , .		6
358	Depth resolution properties of in-line X-ray phase-contrast tomosynthesis. , 2014, , .		5
359	Sparse CT reconstruction based on multi-direction anisotropic total variation (MDATV). BioMedical Engineering OnLine, 2014, 13, 92.	1.3	18
360	Application of a dual-resolution voxellation scheme to small ROI reconstruction in iterative CBCT for the reduction of computational cost. Journal of the Korean Physical Society, 2014, 65, 1468-1474.	0.3	1
361	Constrained $\ell_1$ Minimization for Enhanced Exploitation of Gradient Sparsity: Application to CT Image Reconstruction. IEEE Journal of Translational Engineering in Health and Medicine. 2014. 2. 1-18.	2.2	68
362	Recent Advances in Hybrid Molecular Imaging Systems. Seminars in Musculoskeletal Radiology, 2014, 18, 103-122.	0.4	16
363	Optimizing 4DCBCT projection allocation to respiratory bins. Physics in Medicine and Biology, 2014, 59, 5631-5649.	1.6	18
364	Removing streak artifacts from ECG-gated reconstructions using deconvolution. Journal of X-Ray Science and Technology, 2014, 22, 253-270.	0.7	3
365	Strategies for efficient scanning and reconstruction methods on very large objects with high-energy x-ray computed tomography. , 2014, , .		6
366	Adaptive multi-scale total variation minimization filter for low dose CT imaging. , 2014, , .		0
367	Sparse-View Ultrasound Diffraction Tomography Using Compressed Sensing with Nonuniform FFT. Computational and Mathematical Methods in Medicine, 2014, 2014, 1-13.	0.7	9

#	ARTICLE	IF	CITATIONS
368	3D Alternating Direction TV-Based Cone-Beam CT Reconstruction with Efficient GPU Implementation. Computational and Mathematical Methods in Medicine, 2014, 2014, 1-9.	0.7	3
369	Iterative CT reconstruction via minimizing adaptively reweighted total variation. Journal of X-Ray Science and Technology, 2014, 22, 227-240.	0.7	9
370	Pushing CT and MR Imaging to the Molecular Level for Studying the "Omics" Current Challenges and Advancements. BioMed Research International, 2014, 2014, 1-17.	0.9	8
371	Compressed-sensing (CS)-based digital breast tomosynthesis (DBT) reconstruction for low-dose, accurate 3D breast X-ray imaging. Journal of the Korean Physical Society, 2014, 65, 565-571.	0.3	2
372	Highly cited articles in Physics in Medicine and Biology. Physics in Medicine and Biology, 2014, 59, 4461-4463.	1.6	1
373	Compressive sampling in computed tomography: Method and application. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2014, 748, 26-32.	0.7	16
374	Generalized row-action methods for tomographic imaging. Numerical Algorithms, 2014, 67, 121-144.	1.1	19
375	Projected Subgradient Minimization Versus Superiorization. Journal of Optimization Theory and Applications, 2014, 160, 730-747.	0.8	59
376	Super-Resolution for Computed Tomography Based on Discrete Tomography. IEEE Transactions on Image Processing, 2014, 23, 1181-1193.	6.0	31
377	Tensor-Based Formulation and Nuclear Norm Regularization for Multienergy Computed Tomography. IEEE Transactions on Image Processing, 2014, 23, 1678-1693.	6.0	289
378	GPU-based high-performance computing for radiation therapy. Physics in Medicine and Biology, 2014, 59, R151-R182.	1.6	110
379	Soft-tissue imaging with C-arm cone-beam CT using statistical reconstruction. Physics in Medicine and Biology, 2014, 59, 1005-1026.	1.6	56
380	Accelerated barrier optimization compressed sensing (ABOCS) for CT reconstruction with improved convergence. Physics in Medicine and Biology, 2014, 59, 1801-1814.	1.6	27
381	Sparsity-regularized image reconstruction of decomposed K-edge data in spectral CT. Physics in Medicine and Biology, 2014, 59, N65-N79.	1.6	30
382	Investigation of iterative image reconstruction in low-dose breast CT. Physics in Medicine and Biology, 2014, 59, 2659-2685.	1.6	47
383	Sparse-view x-ray CT reconstruction via total generalized variation regularization. Physics in Medicine and Biology, 2014, 59, 2997-3017.	1.6	204
384	A Fourier-based compressed sensing technique for accelerated CT image reconstruction using first-order methods. Physics in Medicine and Biology, 2014, 59, 3097-3119.	1.6	13
385	Dictionary-learning-based reconstruction method for electron tomography. Scanning, 2014, 36, 377-383.	0.7	8

#	ARTICLE	IF	CITATIONS
386	Artifact Suppressed Dictionary Learning for Low-Dose CT Image Processing. IEEE Transactions on Medical Imaging, 2014, 33, 2271-2292.	5.4	265
387	A hybrid reconstruction algorithm for fast and accurate 4D cone-beam CT imaging. Medical Physics, 2014, 41, 071903.	1.6	33
388	Dental cone-beam CT reconstruction from limited-angle view data based on compressed-sensing (CS) theory for fast, low-dose X-ray imaging. Journal of the Korean Physical Society, 2014, 64, 1907-1911.	0.3	5
389	Proximal ADMM for Multi-Channel Image Reconstruction in Spectral X-ray CT. IEEE Transactions on Medical Imaging, 2014, 33, 1657-1668.	5.4	59
390	Improving Filtered Backprojection Reconstruction by Data-Dependent Filtering. IEEE Transactions on Image Processing, 2014, 23, 4750-4762.	6.0	33
391	Total Variation-Stokes Strategy for Sparse-View X-ray CT Image Reconstruction. IEEE Transactions on Medical Imaging, 2014, 33, 749-763.	5.4	91
392	Superiorization of the ML-EM Algorithm. IEEE Transactions on Nuclear Science, 2014, 61, 162-172.	1.2	35
393	Dual-energy cone-beam CT with a flat-panel detector: Effect of reconstruction algorithm on material classification. Medical Physics, 2014, 41, 021908.	1.6	33
394	Restoration of lost frequency in OpenPET imaging: comparison between the method of convex projections and the maximum likelihood expectation maximization method. Radiological Physics and Technology, 2014, 7, 329-339.	1.0	2
395	Radiation dose reduction with dictionary learning based processing for head CT. Australasian Physical and Engineering Sciences in Medicine, 2014, 37, 483-493.	1.4	5
396	Improved total variation minimization method for few-view computed tomography image reconstruction. BioMedical Engineering OnLine, 2014, 13, 70.	1.3	9
397	Reduction of the scanning time by total variation minimization reconstruction for X-ray tomography in a SEM. Journal of Microscopy, 2014, 256, 90-99.	0.8	6
398	The PyHST2 hybrid distributed code for high speed tomographic reconstruction with iterative reconstruction and a priori knowledge capabilities. Nuclear Instruments & Methods in Physics Research B, 2014, 324, 41-48.	0.6	337
399	Multienery CT acquisition and reconstruction with a stepped tube potential scan. Medical Physics, 2015, 42, 282-296.	1.6	23
400	Role of Compressive Sensing Technique in Dose Reduction for Chest Computed Tomography. Journal of Computer Assisted Tomography, 2014, 38, 760-767.	0.5	4
401	Preliminary investigation of CBCT imaging optimization for Image-guided radiation therapy. , 2014, , .		0
402	An efficient ordered subsets CT image reconstruction algorithm for sparse-view, noisy data. , 2014, , .		0
403	Automatic parameter tuning for X-ray computed tomography reconstruction. , 2014, , .		0

#	ARTICLE	IF	CITATIONS
404	Basis-image reconstruction directly from sparse-view data in spectral CT. , 2014, , .		3
405	Preliminary investigation on algorithm-enabled PET-configuration design. , 2014, , .		0
406	Sparse-view image reconstruction with nonlocal total variation. , 2014, , .		0
407	Guarantees of total variation minimization for signal recovery. Information and Inference, 0, , iav009.	0.9	13
408	Compressive computed tomography image reconstruction with denoising message passing algorithms. , 2015, , .		5
409	Priorimask guided image reconstruction (p-MGIR) for ultra-low dose cone-beam computed tomography. Physics in Medicine and Biology, 2015, 60, 8505-8524.	1.6	6
411	Reconstruction of CT images from sparse-view polyenergetic data using total variation minimization. , 2015, , .		2
412	Low-dose CT image reconstruction method with probabilistic atlas prior. , 2015, , .		0
413	An analytic noise model to aid in the development of total-variation-penalized CT image reconstruction. , 2015, , .		0
414	Synchronized multiartifact reduction with tomographic reconstruction (SMARTâ€‘RECON): A statistical model based iterative image reconstruction method to eliminate limitedâ€‘view artifacts and to mitigate the temporalâ€‘average artifacts in timeâ€‘resolved CT. Medical Physics, 2015, 42, 4698-4707.	1.6	38
415	GPUâ€‘accelerated regularized iterative reconstruction for fewâ€‘view cone beam CT. Medical Physics, 2015, 42, 1505-1517.	1.6	39
416	An Open Source GPU Accelerated Framework for Flexible Algebraic Reconstruction at Synchrotron Light Sources. Fundamenta Informaticae, 2015, 141, 259-274.	0.3	2
417	A block-eliminating method by limited-view scan in a dynamic CT system for running aero-engine. , 2015, , .		1
418	Cardiorespiratory motionâ€‘compensated microâ€‘CT image reconstruction using an artifact modelâ€‘based motion estimation. Medical Physics, 2015, 42, 1948-1958.	1.6	29
419	An investigation of regularization for basis image reconstruction in spectral CT. , 2015, , .		3
420	Spectral CT reconstruction with weighted non-local total-variation minimization. , 2015, , .		2
421	Sinogram restoration in computed tomography with an edgeâ€‘preserving penalty. Medical Physics, 2015, 42, 1307-1320.	1.6	7
422	Image reconstruction algorithm for in-line phase contrast imaging computed tomography with an improved anisotropic diffusion model. Journal of X-Ray Science and Technology, 2015, 23, 311-320.	0.7	3



#	ARTICLE	IF	CITATIONS
423	Noise properties of CT images reconstructed by use of constrained total-variation, data-discrepancy minimization. <i>Medical Physics</i> , 2015, 42, 2690-2698.	1.6	18
424	A CT reconstruction approach from sparse projection with adaptive-weighted diagonal total-variation in biomedical application. <i>Bio-Medical Materials and Engineering</i> , 2015, 26, S1685-S1693.	0.4	7
425	How little data is enough? Phase-diagram analysis of sparsity-regularized X-ray computed tomography. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2015, 373, 20140387.	1.6	27
426	Comparison of TV norm minimization and MLEM for reduction of metal artifacts in transmission tomography. , 2015, , .		1
427	ML-EM reconstruction model including total variation for low dose PET high resolution data. , 2015, , .		4
428	A fast iterative reconstruction method based on the selective total variation for sparse angular CT. , 2015, , .		0
429	Sparse-View CT Image Recovery Using Two-Step Iterative Shrinkage-Thresholding Algorithm. <i>ETRI Journal</i> , 2015, 37, 1251-1258.	1.2	9
430	Artifacts suppression in optical CT for gel dosimeters by iterative reconstruction. <i>Journal of Physics: Conference Series</i> , 2015, 573, 012063.	0.3	2
431	Ultra-low dose CT attenuation correction for PET/CT: analysis of sparse view data acquisition and reconstruction algorithms. <i>Physics in Medicine and Biology</i> , 2015, 60, 7437-7460.	1.6	15
432	Metal artifact reduction for CT-based luggage screening. <i>Journal of X-Ray Science and Technology</i> , 2015, 23, 435-451.	0.7	11
433	An interprojection sensor fusion approach to estimate blocked projection signal in synchronized moving grid-based CBCT system. <i>Medical Physics</i> , 2015, 43, 268-278.	1.6	1
434	Sparse-view computed tomography image reconstruction via a combination of L1 and SLO regularization. <i>Bio-Medical Materials and Engineering</i> , 2015, 26, S1389-S1398.	0.4	8
435	3D Algebraic Iterative Reconstruction for Cone-Beam X-Ray Differential Phase-Contrast Computed Tomography. <i>PLoS ONE</i> , 2015, 10, e0117502.	1.1	15
436	A Novel Iterative CT Reconstruction Approach Based on FBP Algorithm. <i>PLoS ONE</i> , 2015, 10, e0138498.	1.1	15
437	An Effective CUDA Parallelization of Projection in Iterative Tomography Reconstruction. <i>PLoS ONE</i> , 2015, 10, e0142184.	1.1	10
438	Accelerated Compressed Sensing Based CT Image Reconstruction. <i>Computational and Mathematical Methods in Medicine</i> , 2015, 2015, 1-16.	0.7	17
439	CT Image Reconstruction from Sparse Projections Using Adaptive TpV Regularization. <i>Computational and Mathematical Methods in Medicine</i> , 2015, 2015, 1-8.	0.7	9
440	NUFFT-Based Iterative Image Reconstruction via Alternating Direction Total Variation Minimization for Sparse-View CT. <i>Computational and Mathematical Methods in Medicine</i> , 2015, 2015, 1-9.	0.7	4

#	ARTICLE	IF	CITATIONS
441	A Model of Regularization Parameter Determination in Low-Dose X-Ray CT Reconstruction Based on Dictionary Learning. Computational and Mathematical Methods in Medicine, 2015, 2015, 1-12.	0.7	13
442	Binary Tomography Reconstructions With Stochastic Level-Set Methods. IEEE Signal Processing Letters, 2015, 22, 920-924.	2.1	9
443	United Iterative Reconstruction for Spectral Computed Tomography. IEEE Transactions on Medical Imaging, 2015, 34, 769-778.	5.4	27
444	CARS 2015"Computer Assisted Radiology and Surgery Proceedings of the 29th International Congress and Exhibition Barcelona, Spain, June 24"27, 2015. International Journal of Computer Assisted Radiology and Surgery, 2015, 10, 1-312.	1.7	9
445	Application of a non-convex smooth hard threshold regularizer to sparse-view CT image reconstruction. Proceedings of SPIE, 2015, , .	0.8	0
446	Gradient-based sparse approximation for computed tomography. , 2015, , .		6
447	Compressed sensing for beamformed Ultrasound computed tomography. , 2015, , .		2
448	Testable uniqueness conditions for empirical assessment of undersampling levels in total variation-regularized X-ray CT. Inverse Problems in Science and Engineering, 2015, 23, 1283-1305.	1.2	57
449	Hessian Schatten-norm regularization for CBCT image reconstruction using fast iterative shrinkage-thresholding algorithm. , 2015, , .		2
450	Volume-of-interest reconstruction from severely truncated data in dental cone-beam CT. , 2015, , .		0
451	An image reconstruction model and hybrid algorithm for limited-angle projection data. , 2015, , .		1
452	Angular upsampling of projection measurements in 3D computed tomography using a sparsity prior. , 2015, , .		3
453	X-ray CT image reconstruction from few-views via total generalized p-variation minimization. , 2015, 2015, 5618-21.		1
454	Compressive tomography. Advances in Optics and Photonics, 2015, 7, 756.	12.1	53
455	A moving blocker-based strategy for simultaneous megavoltage and kilovoltage scatter correction in cone-beam computed tomography image acquired during volumetric modulated arc therapy. Radiotherapy and Oncology, 2015, 115, 425-430.	0.3	5
456	A Constrained Optimization Reconstruction Model for X-ray Computed Tomography Metal Artifact Suppression. Journal of Medical Imaging and Health Informatics, 2015, 5, 1543-1547.	0.2	1
457	Demonstration of temperature imaging by H <sub>2</sub> O absorption spectroscopy using compressed sensing tomography. Applied Optics, 2015, 54, 9190.	2.1	18
458	Breast ultrasound computed tomography using waveform inversion with source encoding. Proceedings of SPIE, 2015, , .	0.8	0

#	ARTICLE	IF	CITATIONS
459	CBCT reconstruction via a penalty combining total variation and its higher-degree term. Proceedings of SPIE, 2015, , .	0.8	2
460	Simulation and experimental studies of three-dimensional (3D) image reconstruction from insufficient sampling data based on compressed-sensing theory for potential applications to dental cone-beam CT. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2015, 784, 550-556.	0.7	8
461	Dynamic SPECT reconstruction from few projections: a sparsity enforced matrix factorization approach. Inverse Problems, 2015, 31, 025004.	1.0	3
462	Joint image reconstruction and segmentation using the Potts model. Inverse Problems, 2015, 31, 025003.	1.0	88
463	A Pilot Evaluation of a 4-Dimensional Cone-Beam Computed Tomographic Scheme Based on Simultaneous Motion Estimation and Image Reconstruction. International Journal of Radiation Oncology Biology Physics, 2015, 91, 410-418.	0.4	17
464	Accurate multipixel phase measurement with classical-light interferometry. Physical Review A, 2015, 91, .	1.0	19
465	A method of extending the depth of focus of the high-resolution X-ray imaging system employing optical lens and scintillator: a phantom study. BioMedical Engineering OnLine, 2015, 14, S15.	1.3	12
466	Low dose CT image restoration using a database of image patches. Physics in Medicine and Biology, 2015, 60, 869-882.	1.6	21
467	Improving thoracic four-dimensional cone-beam CT reconstruction with anatomical-adaptive image regularization (AAIR). Physics in Medicine and Biology, 2015, 60, 841-868.	1.6	9
468	Boundary-enhancement in propagation-based x-ray phase-contrast tomosynthesis improves depth position characterization. Physics in Medicine and Biology, 2015, 60, N151-N165.	1.6	6
469	Deformation vector fields (DVF)-driven image reconstruction for 4D-CBCT. Journal of X-Ray Science and Technology, 2015, 23, 11-23.	0.7	7
470	Beam hardening correction for sparse-view CT reconstruction. , 2015, , .		0
471	A rapid parallelization of cone-beam projection and back-projection operator based on texture fetching interpolation. Proceedings of SPIE, 2015, , .	0.8	0
472	Efficient TpV minimization for circular, cone-beam computed tomography reconstruction via non-convex optimization. Computerized Medical Imaging and Graphics, 2015, 45, 1-10.	3.5	15
473	Dictionary learning for data recovery in positron emission tomography. Physics in Medicine and Biology, 2015, 60, 5853-5871.	1.6	14
474	3D fluoroscopic image estimation using patient-specific 4DCBCT-based motion models. Physics in Medicine and Biology, 2015, 60, 3807-3824.	1.6	19
475	System matrix analysis for sparse-view iterative image reconstruction in X-ray CT. Journal of X-Ray Science and Technology, 2015, 23, 1-10.	0.7	6
476	3D pulse EPR imaging from sparse-view projections via constrained, total variation minimization. Journal of Magnetic Resonance, 2015, 258, 49-57.	1.2	21

#	ARTICLE	IF	CITATIONS
477	Experimental study on the 3D image reconstruction in a truncated Archimedean-like spiral geometry with a long-rectangular detector and its image characteristics. Optics Communications, 2015, 355, 492-497.	1.0	0
478	High speed imaging of dynamic processes with a switched source x-ray CT system. Measurement Science and Technology, 2015, 26, 055401.	1.4	19
479	Circular tomosynthesis for neuro perfusion imaging on an interventional C-arm. , 2015, , .		2
480	A Fully GPU-Based Ray-Driven Backprojector via a Ray-Culling Scheme with Voxel-Level Parallelization for Cone-Beam CT Reconstruction. Technology in Cancer Research and Treatment, 2015, 14, 709-720.	0.8	13
481	On Few-View Tomography and Staircase Artifacts. IEEE Transactions on Nuclear Science, 2015, 62, 851-858.	1.2	8
482	Algorithm-enabled exploration of image-quality potential of cone-beam CT in image-guided radiation therapy. Physics in Medicine and Biology, 2015, 60, 4601-4633.	1.6	23
483	Distributed CT image reconstruction algorithm based on the alternating direction method. Journal of X-Ray Science and Technology, 2015, 23, 83-99.	0.7	5
484	Median prior constrained TV algorithm for sparse view low-dose CT reconstruction. Computers in Biology and Medicine, 2015, 60, 117-131.	3.9	65
485	Column distribution reconstruction algorithm via the alternating direction method. Optik, 2015, 126, 1006-1011.	1.4	0
486	An iterative algorithm for computed tomography image reconstruction from limited-angle projections. Journal of Shanghai Jiaotong University (Science), 2015, 20, 202-208.	0.5	1
487	TV-based conjugate gradient method and discrete L-curve for few-view CT reconstruction of X-ray in vivo data. Optics Express, 2015, 23, 5368.	1.7	37
488	Waveform inversion with source encoding for breast sound speed reconstruction in ultrasound computed tomography. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2015, 62, 475-493.	1.7	111
489	Compressed Sensing for Ultrasound Computed Tomography. IEEE Transactions on Biomedical Engineering, 2015, 62, 1660-1664.	2.5	40
490	Image deblurring associated with shearlet sparsity and weighted anisotropic total variation. Journal of Electronic Imaging, 2015, 24, 023001.	0.5	7
491	Sparse-view proton computed tomography using modulated proton beams. Medical Physics, 2015, 42, 1129-1137.	1.6	5
492	The ASTRA Toolbox: A platform for advanced algorithm development in electron tomography. Ultramicroscopy, 2015, 157, 35-47.	0.8	652
493	Spectral CT Modeling and Reconstruction With Hybrid Detectors in Dynamic-Threshold-Based Counting and Integrating Modes. IEEE Transactions on Medical Imaging, 2015, 34, 716-728.	5.4	53
494	Preliminary clinical evaluation of a 4D-CBCT estimation technique using prior information and limited-angle projections. Radiotherapy and Oncology, 2015, 115, 22-29.	0.3	48

#	ARTICLE	IF	CITATIONS
495	Compressed sensing with gradient total variation for low-dose CBCT reconstruction. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2015, 784, 570-573.	0.7	3
496	Compressive sensing in medical imaging. Applied Optics, 2015, 54, C23.	0.9	138
497	Stabilizing dual-energy x-ray computed tomography reconstructions using patch-based regularization. Inverse Problems, 2015, 31, 105004.	1.0	8
498	Sparse-View X-ray Computed Tomography Reconstruction via Mumford-Shah Total Variation Regularization. Lecture Notes in Computer Science, 2015, , 745-751.	1.0	0
499	X-ray computed tomography using curvelet sparse regularization. Medical Physics, 2015, 42, 1555-1565.	1.6	13
500	Accelerated statistical reconstruction for C-arm cone-beam CT using Nesterov's method. Medical Physics, 2015, 42, 2699-2708.	1.6	32
501	A multiscale filter for noise reduction of low-dose cone beam projections. Physics in Medicine and Biology, 2015, 60, 6515-6530.	1.6	2
502	Image-based compensation for involuntary motion in weight-bearing C-arm cone-beam CT scanning of knees. Proceedings of SPIE, 2015, , .	0.8	8
503	Three-dimensional laser optoacoustic and laser ultrasound imaging system for biomedical research. Proceedings of SPIE, 2015, , .	0.8	2
504	Alternating Minimization Algorithm with Automatic Relevance Determination for Transmission Tomography under Poisson Noise. SIAM Journal on Imaging Sciences, 2015, 8, 2087-2132.	1.3	4
505	Incorporation of local dependent reliability information into the Prior Image Constrained Compressed Sensing (PICCS) reconstruction algorithm. Zeitschrift Fur Medizinische Physik, 2015, 25, 375-390.	0.6	2
506	Estimation of noise properties for TV-regularized image reconstruction in computed tomography. Physics in Medicine and Biology, 2015, 60, 7007-7033.	1.6	8
507	A General-Thresholding Solution for $l_{p<sub>p</sub>}$ ( $0 < p < 1$ ) Regularized CT Reconstruction. IEEE Transactions on Image Processing, 2015, 24, 5455-5468.	6.0	72
508	Compressed-sensing-based content-driven hierarchical reconstruction: Theory and application to C-arm cone-beam tomography. Medical Physics, 2015, 42, 5222-5237.	1.6	9
509	Adapted fan-beam volume reconstruction for stationary digital breast tomosynthesis. , 2015, , .		6
510	Computed Tomography Image Reconstruction from Few-Views Data by Multi-Directional Total Variation. Journal of Medical Imaging and Health Informatics, 2015, 5, 309-316.	0.2	10
511	Whole Cells Imaged by Hard X-ray Transmission Microscopy. Fungal Biology, 2015, , 89-107.	0.3	0
512	Fourier-based reconstruction via alternating direction total variation minimization in linear scan CT. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2015, 775, 84-92.	0.7	4

#	ARTICLE	IF	CITATIONS
513	Towards dose reduction for dual-energy CT: A non-local image improvement method and its application. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2015, 770, 211-217.	0.7	3
514	A soft-threshold filtering EM-TV algorithm for CT reconstruction. Optik, 2015, 126, 202-207.	1.4	4
515	Reconstruction of sparse-view X-ray computed tomography using adaptive iterative algorithms. Computers in Biology and Medicine, 2015, 56, 97-106.	3.9	8
516	Lower bounds for the truncated Hilbert transform. Revista Matematica Iberoamericana, 2016, 32, 23-56.	0.4	11
517	Smoothedl <sub>0</sub> Norm Regularization for Sparse-View X-Ray CT Reconstruction. BioMed Research International, 2016, 2016, 1-12.	0.9	9
518	An Improved Total Variation Minimization Method Using Prior Images and Split-Bregman Method in CT Reconstruction. BioMed Research International, 2016, 2016, 1-9.	0.9	7
520	Half-Fan-Based Intensity-Weighted Region-of-Interest Imaging for Low-Dose Cone-Beam CT in Image-Guided Radiation Therapy. Healthcare Informatics Research, 2016, 22, 316.	1.0	3
521	Low-Dose computed tomography sinogram DE-noising based on joint wavelet and total variation. , 2016, , .		1
522	Investigation of non-negativity constraint on basis images in half-rotation data reconstruction in spectral CT. , 2016, , .		1
523	Constrained Total Generalized p-Variation Minimization for Few-View X-Ray Computed Tomography Image Reconstruction. PLoS ONE, 2016, 11, e0149899.	1.1	23
524	An "Extra Dimension" in Electron Tomography: Automatic Parameter Determination for Next-generation Reconstruction Methods. Microscopy and Microanalysis, 2016, 22, 556-557.	0.2	1
525	Efficient iterative image reconstruction algorithm for dedicated breast CT. Proceedings of SPIE, 2016, , .	0.8	3
526	Sparse-View CT Reconstruction Using Curvelet and TV-Based Regularization. Lecture Notes in Computer Science, 2016, , 672-677.	1.0	5
527	Volumetric CT with sparse detector arrays (and application to Si-strip photon counters). Physics in Medicine and Biology, 2016, 61, 90-113.	1.6	7
528	An algorithm for constrained one-step inversion of spectral CT data. Physics in Medicine and Biology, 2016, 61, 3784-3818.	1.6	118
529	Low-dose CBCT reconstruction via 3D dictionary learning. , 2016, , .		5
530	Multi-gamma-source CT imaging system: a feasibility study with the Poisson noise. Proceedings of SPIE, 2016, , .	0.8	0
531	A Gaussian Mixture MRF for Model-Based Iterative Reconstruction With Applications to Low-Dose X-Ray CT. IEEE Transactions on Computational Imaging, 2016, 2, 359-374.	2.6	24

#	ARTICLE	IF	CITATIONS
532	TIGRE: a MATLAB-GPU toolbox for CBCT image reconstruction. Biomedical Physics and Engineering Express, 2016, 2, 055010.	0.6	170
533	Flame slice algebraic reconstruction technique reconstruction algorithm based on radial total variation. Journal of Electronic Imaging, 2016, 25, 053037.	0.5	2
535	The current state and prospects of X-ray computational tomography. Russian Journal of Nondestructive Testing, 2016, 52, 235-244.	0.3	8
536	Block-sparse beamforming for spatially extended sources in a Bayesian formulation. Journal of the Acoustical Society of America, 2016, 140, 1828-1838.	0.5	28
537	A fast method based on NESTA to accurately reconstruct CT image from highly undersampled projection measurements. Journal of X-Ray Science and Technology, 2016, 24, 865-874.	0.7	3
538	Dual energy CT with one full scan and a second sparse-view scan using structure preserving iterative reconstruction (SPIR). Physics in Medicine and Biology, 2016, 61, 6684-6706.	1.6	25
539	An exponent-based anisotropic variational PDE regularized image reconstruction method for digital tomosynthesis. , 2016, , .		0
540	A very fast iterative algorithm for TV-regularized image reconstruction with applications to low-dose and few-view CT. Proceedings of SPIE, 2016, , .	0.8	11
541	A metal artifact reduction method for a dental CT based on adaptive local thresholding and prior image generation. BioMedical Engineering OnLine, 2016, 15, 119.	1.3	13
542	A new weighted anisotropic total variation algorithm for limited angle tomography. , 2016, , .		14
543	Limited-view ultrasonic guided wave tomography using an adaptive regularization method. Journal of Applied Physics, 2016, 120, .	1.1	29
544	A feature refinement approach for statistical interior CT reconstruction. Physics in Medicine and Biology, 2016, 61, 5311-5334.	1.6	28
545	A Novel Fractional-Order Differentiation Model for Low-Dose CT Image Processing. IEEE Access, 2016, 4, 8487-8499.	2.6	30
546	Simultaneous 4D-CT reconstruction with sliding motion constraint. Medical Physics, 2016, 43, 5453-5463.	1.6	6
547	Recent Advances in X-ray Cone-beam Computed Laminography. Journal of X-Ray Science and Technology, 2016, 24, 691-707.	0.7	28
548	Iterative metal artifact reduction for x-ray computed tomography using unmatched projector/backprojector pairs. Medical Physics, 2016, 43, 3019-3033.	1.6	19
549	A promising limited angular computed tomography reconstruction via segmentation based regional enhancement and total variation minimization. Review of Scientific Instruments, 2016, 87, 083104.	0.6	2
550	A sparsity-based iterative algorithm for reconstruction of micro-CT images from highly undersampled projection datasets obtained with a synchrotron X-ray source. Review of Scientific Instruments, 2016, 87, 123701.	0.6	4

#	ARTICLE	IF	CITATIONS
551	Optimization-based image reconstruction in x-ray computed tomography by sparsity exploitation of local continuity and nonlocal spatial self-similarity. Chinese Physics B, 2016, 25, 078701.	0.7	1
552	A two-step filtering-based iterative image reconstruction method for interior tomography. Journal of X-Ray Science and Technology, 2016, 24, 733-747.	0.7	6
553	Precise phase transition of total variation minimization. , 2016, , .		7
554	Multi-level tomography reconstructions with level-set and TV regularization methods. , 2016, , .		0
555	Evaluation of hybrid SART+OS+TV iterative reconstruction algorithm for optical-CT gel dosimeter imaging. Physics in Medicine and Biology, 2016, 61, 8425-8439.	1.6	22
556	Investigation of optimization-based reconstruction with an image-total-variation constraint in PET. Physics in Medicine and Biology, 2016, 61, 6055-6084.	1.6	35
557	Accelerated fast iterative shrinkage thresholding algorithms for sparsity-regularized cone-beam CT image reconstruction. Medical Physics, 2016, 43, 1849-1872.	1.6	30
558	Hounsfield unit recovery in clinical cone beam CT images of the thorax acquired for image guided radiation therapy. Physics in Medicine and Biology, 2016, 61, 5781-5802.	1.6	37
559	X-ray imaging and 3D reconstruction of in-flight exploding foil initiator flyers. Journal of Applied Physics, 2016, 119, .	1.1	41
560	A new linearized split Bregman iterative algorithm for image reconstruction in sparse-view X-ray computed tomography. Computers and Mathematics With Applications, 2016, 71, 1537-1559.	1.4	13
561	Low-dose cerebral perfusion computed tomography image restoration via low-rank and total variation regularizations. Neurocomputing, 2016, 197, 143-160.	3.5	33
562	X-ray microtomography for materials characterization. , 2016, , 45-79.		14
563	Novel Fourier-based iterative reconstruction for sparse fan projection using alternating direction total variation minimization. Chinese Physics B, 2016, 25, 038701.	0.7	0
564	Investigation of cone-beam CT image quality trade-off for image-guided radiation therapy. Physics in Medicine and Biology, 2016, 61, 3317-3346.	1.6	6
565	Optimization-based reconstruction for reduction of CBCT artifact in IGRT. , 2016, , .		0
566	Artifact reduction in short-scan CBCT by use of optimization-based reconstruction. Physics in Medicine and Biology, 2016, 61, 3387-3406.	1.6	48
567	Patient dose Ioannis Sechopoulos. , 2016, , 65-82.		0
568	A geometric calibration method for cone beam CT system. Proceedings of SPIE, 2016, , .	0.8	2



#	ARTICLE	IF	CITATIONS
569	Sparsity Prior Computed Tomography Reconstruction Using a Nonstandard Simultaneous X-ray Acquisition Model. <i>Journal of Medical Imaging and Radiation Sciences</i> , 2016, 47, 251-266.e1.	0.2	1
570	A statistical iterative reconstruction framework for dual energy computed tomography without knowing tube spectrum. <i>Proceedings of SPIE</i> , 2016, , .	0.8	2
571	Fast Megavoltage Computed Tomography: A Rapid Imaging Method for Total Body or Marrow Irradiation in Helical Tomotherapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2016, 96, 688-695.	0.4	6
572	A Sparse Reconstruction Framework for Fourier-Based Plane-Wave Imaging. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2016, 63, 2092-2106.	1.7	32
573	Few-view CT reconstruction via a novel non-local means algorithm. <i>Physica Medica</i> , 2016, 32, 1276-1283.	0.4	10
574	Computational estimation of resolution in reconstruction techniques utilizing sparsity, total variation, and nonnegativity. <i>Journal of Electronic Imaging</i> , 2016, 25, 053016.	0.5	6
575	A pseudo-discrete algebraic reconstruction technique (PDART) prior image-based suppression of high density artifacts in computed tomography. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2016, 840, 42-50.	0.7	8
576	Fused analytical and iterative reconstruction (AIR) via modified proximal forwardâ€“backward splitting: a FDK-based iterative image reconstruction example for CBCT. <i>Physics in Medicine and Biology</i> , 2016, 61, 7187-7204.	1.6	20
577	Iterative image reconstruction using modified non-local means filtering for limited-angle computed tomography. <i>Physica Medica</i> , 2016, 32, 1041-1051.	0.4	15
578	Iterative image reconstruction for limitedâ€“angle inverse helical coneâ€“beam computed tomography. <i>Scanning</i> , 2016, 38, 4-13.	0.7	8
579	Microstructural Quantification and Property Prediction Using Limited X-ray Tomography Data. <i>Jom</i> , 2016, 68, 2288-2295.	0.9	6
580	Discrete Tomography by Continuous Multilabeling Subject to Projection Constraints. <i>Lecture Notes in Computer Science</i> , 2016, , 261-272.	1.0	6
581	Motion-aware temporal regularization for improved 4D cone-beam computed tomography. <i>Physics in Medicine and Biology</i> , 2016, 61, 6856-6877.	1.6	29
582	Non-local total-variation (NLTV) minimization combined with reweighted L1-norm for compressed sensing CT reconstruction. <i>Physics in Medicine and Biology</i> , 2016, 61, 6878-6891.	1.6	55
583	Quantitative study on exact reconstruction sampling condition by verifying solution uniqueness in limited-view CT. <i>Physica Medica</i> , 2016, 32, 1321-1330.	0.4	6
584	Spectral prior image constrained compressed sensing (spectral PICCS) for photon-counting computed tomography. <i>Physics in Medicine and Biology</i> , 2016, 61, 6707-6732.	1.6	75
585	Structure-adaptive CBCT reconstruction using weighted total variation and Hessian penalties. <i>Biomedical Optics Express</i> , 2016, 7, 3299.	1.5	8
586	CT Image Reconstruction by Spatial-Radon Domain Data-Driven Tight Frame Regularization. <i>SIAM Journal on Imaging Sciences</i> , 2016, 9, 1063-1083.	1.3	29

#	ARTICLE	IF	CITATIONS
587	Inverse dynamical photon scattering (IDPS): an artificial neural network based algorithm for three-dimensional quantitative imaging in optical microscopy. Optics Express, 2016, 24, 7006.	1.7	11
588	Improving Low-dose Cardiac CT Images based on 3D Sparse Representation. Scientific Reports, 2016, 6, 22804.	1.6	9
589	Moving Beam-Blocker-Based Low-Dose Cone-Beam CT. IEEE Transactions on Nuclear Science, 2016, 63, 2540-2549.	1.2	14
590	Spectral CT Reconstruction With Image Sparsity and Spectral Mean. IEEE Transactions on Computational Imaging, 2016, 2, 510-523.	2.6	86
591	ProxImaL. ACM Transactions on Graphics, 2016, 35, 1-15.	4.9	45
592	Multiresolution Parameter Choice Method for Total Variation Regularized Tomography. SIAM Journal on Imaging Sciences, 2016, 9, 938-974.	1.3	14
593	Low-dose CT reconstruction via L1 dictionary learning regularization using iteratively reweighted least-squares. BioMedical Engineering OnLine, 2016, 15, 66.	1.3	26
594	Alternating Iteration for $\ell_1/\ell_2$ Sparse Reconstruction. IEEE Access, 2016, 4, 4355-4363.	2.6	9
595	FBP initialized few-view CT reconstruction algorithm using similar prior image constraint. , 2016, 2016, 3949-3952.		2
596	Optimization-based image reconstruction with artifact reduction in C-arm CBCT. Physics in Medicine and Biology, 2016, 61, 7300-7333.	1.6	32
597	Advanced Platform for 3D Visualization, Reconstruction, and Segmentation with Electron Tomography. Microscopy and Microanalysis, 2016, 22, 2070-2071.	0.2	5
598	TV constrained CT image reconstruction with discretized natural pixels. , 2016, , .		2
599	UFO " a scalable platform for high-speed synchrotron X-ray imaging. , 2016, , .		2
600	Object Specific Trajectory Optimization for Industrial X-ray Computed Tomography. Scientific Reports, 2016, 6, 19135.	1.6	32
601	Image reconstruction from few-view CT data by gradient-domain dictionary learning. Journal of X-Ray Science and Technology, 2016, 24, 627-638.	0.7	16
602	Edge-oriented dual-dictionary guided enrichment (EDGE) for MRI-CT image reconstruction. Journal of X-Ray Science and Technology, 2016, 24, 161-175.	0.7	3
603	Tomographic reconstruction using a new voxel-domain prior and Gaussian message passing. , 2016, , .		5
604	Binary tomography reconstruction from few projections with Total Variation regularization for bone microstructure studies. Journal of X-Ray Science and Technology, 2016, 24, 177-189.	0.7	1

#	ARTICLE	IF	CITATIONS
605	Limited-angle multi-energy CT using joint clustering prior and sparsity regularization. Proceedings of SPIE, 2016, , .	0.8	0
606	Sparse-view neutron CT reconstruction of irradiated fuel assembly using total variation minimization with Poisson statistics. Journal of Radioanalytical and Nuclear Chemistry, 2016, 307, 1967-1979.	0.7	14
607	Texture enhanced optimization-based image reconstruction (TxE-OBIR) from sparse projection views. , 2016, , .		0
608	Algorithm for x-ray beam hardening and scatter correction in low-dose cone-beam CT: phantom studies. Proceedings of SPIE, 2016, , .	0.8	1
609	Reconstruction of electrical capacitance tomography images based on fast linearized alternating direction method of multipliers for two-phase flow system. Chinese Journal of Chemical Engineering, 2016, 24, 597-605.	1.7	12
610	Locating of 2D-projection view and projection denoising under fast continuous rotation scanning mode of micro-CT. Neurocomputing, 2016, 207, 335-345.	3.5	5
611	Fabrication of Two Different Probe Architectures for Ultra-Compact Image Sensors for Root Canal Observations. IEEE Sensors Journal, 2016, 16, 5211-5221.	2.4	5
612	Non-Binary Discrete Tomography by Continuous Non-Convex Optimization. IEEE Transactions on Computational Imaging, 2016, 2, 335-347.	2.6	5
613	Image recovery via geometrically structured approximation. Applied and Computational Harmonic Analysis, 2016, 41, 75-93.	1.1	13
614	Reconstruction of limited-angle dual-energy CT using mutual learning and cross-estimation (MLCE). Proceedings of SPIE, 2016, , .	0.8	6
615	Scatter Reduction and Correction for Dual-Source Cone-Beam CT Using Prepatient Grids. Technology in Cancer Research and Treatment, 2016, 15, 416-427.	0.8	14
616	Optimization Reconstruction of Spiral Cone-beam CT with Displaced Detector and Increased Pitch. , 2016, , .		1
617	Iterative Computed Tomography Reconstruction from Sparse-View Data. Journal of Medical Imaging and Health Informatics, 2016, 6, 34-46.	0.2	6
618	Experimental evaluation of 3D electrical impedance tomography with total variation prior. Inverse Problems in Science and Engineering, 2016, 24, 1411-1431.	1.2	33
619	Statistical iterative reconstruction using adaptive fractional order regularization. Biomedical Optics Express, 2016, 7, 1015.	1.5	65
620	CT reconstruction from few-views with anisotropic edge-guided total variance. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2016, 820, 54-64.	0.7	11
621	TVR-DART: A More Robust Algorithm for Discrete Tomography From Limited Projection Data With Automated Gray Value Estimation. IEEE Transactions on Image Processing, 2016, 25, 455-468.	6.0	47
622	Feasibility study for application of the compressed-sensing framework to interior computed tomography (ICT) for low-dose, high-accurate dental x-ray imaging. Radiation Physics and Chemistry, 2016, 119, 272-278.	1.4	2

#	ARTICLE	IF	CITATIONS
623	A compressed sensing based reconstruction algorithm for synchrotron source propagation-based X-ray phase contrast computed tomography. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2016, 806, 307-317.	0.7	6
624	X-ray computed tomography using sparsity based regularization. Neurocomputing, 2016, 173, 256-269.	3.5	3
625	Easy implementation of advanced tomography algorithms using the ASTRA toolbox with Spot operators. Numerical Algorithms, 2016, 71, 673-697.	1.1	23
626	Small Animal In Vivo X-Ray Tomosynthesis: Anatomical Relevance of the Reconstructed Images. IEEE Transactions on Medical Imaging, 2016, 35, 373-380.	5.4	1
627	Comparative Monte Carlo study on the performance of integration- and list-mode detector configurations for carbon ion computed tomography. Physics in Medicine and Biology, 2017, 62, 1096-1112.	1.6	23
628	Applications of nonlocal means algorithm in low-dose X-ray CT image processing and reconstruction: A review. Medical Physics, 2017, 44, 1168-1185.	1.6	79
629	Edge-preserving denoising for intra-operative cone beam CT in endovascular aneurysm repair. Computerized Medical Imaging and Graphics, 2017, 56, 49-59.	3.5	7
630	Binary moving-blocker-based scatter correction in cone-beam computed tomography with width-truncated projections: proof of concept. Physics in Medicine and Biology, 2017, 62, 2176-2193.	1.6	12
631	Memory-efficient algorithm for stored projection and backprojection matrix in helical CT. Medical Physics, 2017, 44, 1287-1300.	1.6	9
632	Direct Reconstruction of CT-Based Attenuation Correction Images for PET With Cluster-Based Penalties. IEEE Transactions on Nuclear Science, 2017, 64, 959-968.	1.2	1
633	Discriminative feature representation: an effective postprocessing solution to low dose CT imaging. Physics in Medicine and Biology, 2017, 62, 2103-2131.	1.6	36
634	High quality 4D cone-beam CT reconstruction using motion-compensated total variation regularization. Physics in Medicine and Biology, 2017, 62, 3313-3329.	1.6	31
635	Infrared laser-absorption sensing for combustion gases. Progress in Energy and Combustion Science, 2017, 60, 132-176.	15.8	471
636	GPU-accelerated compressed-sensing (CS) image reconstruction in chest digital tomosynthesis (CDT) using CUDA programming. Proceedings of SPIE, 2017, , .	0.8	0
637	A new approach to solving the prior image constrained compressed sensing (PICCS) with applications in CT image reconstruction. Proceedings of SPIE, 2017, , .	0.8	3
638	Investigation into image quality difference between total variation and nonlinear sparsifying transform based compressed sensing. Proceedings of SPIE, 2017, , .	0.8	0
639	Compressed sensing of sparsity-constrained total variation minimization for CT image reconstruction. Proceedings of SPIE, 2017, , .	0.8	0
640	Simultaneous deblurring and iterative reconstruction of CBCT for image guided brain radiosurgery. Physics in Medicine and Biology, 2017, 62, 2521-2541.	1.6	10

#	ARTICLE	IF	CITATIONS
641	Total variation-based method for generation of intravoxel incoherent motion parametric images in <scp>MRI</scp>. Magnetic Resonance in Medicine, 2017, 78, 1383-1391.	1.9	8
642	Proton radiography and computed tomography with dynamic water range shifter. Journal of Instrumentation, 2017, 12, P04004-P04004.	0.5	1
643	Compressed sensing for STEM tomography. Ultramicroscopy, 2017, 179, 47-56.	0.8	24
644	Optimization-based image reconstruction in computed tomography by alternating direction method with ordered subsets. Journal of X-Ray Science and Technology, 2017, 25, 429-464.	0.7	3
645	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
646	Reducing scan angle using adaptive prior knowledge for a limited-angle intrafraction verification (LIVE) system for conformal arc radiotherapy. Physics in Medicine and Biology, 2017, 62, 3859-3882.	1.6	21
647	Simulation-based artifact correction (SBAC) for metrological computed tomography. Measurement Science and Technology, 2017, 28, 065011.	1.4	11
648	Multi-Domain Regularization Based Computed Tomography for High-Speed Rotation Objects. SIAM Journal on Imaging Sciences, 2017, 10, 602-640.	1.3	1
649	Interpolation based enhancement of sparse-view projection data for low dose FBP reconstruction. , 2017, , .		1
650	Pixel-wise estimation of noise statistics on iterative CT reconstruction from a single scan. Medical Physics, 2017, 44, 3525-3533.	1.6	6
651	Deep Convolutional Neural Network for Inverse Problems in Imaging. IEEE Transactions on Image Processing, 2017, 26, 4509-4522.	6.0	1,540
652	Euler's Elastica Strategy for Limited-angle Computed Tomography Image Reconstruction. IEEE Transactions on Nuclear Science, 2017, , 1-1.	1.2	3
653	Restoration of missing data in limited angle tomography based on Helgason's "Ludwig consistency conditions. Biomedical Physics and Engineering Express, 2017, 3, 035015.	0.6	26
654	Relationship between reconstruction quality and scan type for compressive sensing based on cone beam CT reconstruction. , 2017, , .		0
655	A general method for motion compensation in x-ray computed tomography. Physics in Medicine and Biology, 2017, 62, 6532-6549.	1.6	10
656	Low-Dose CT With a Residual Encoder-Decoder Convolutional Neural Network. IEEE Transactions on Medical Imaging, 2017, 36, 2524-2535.	5.4	1,089
657	A new CT reconstruction technique using adaptive deformation recovery and intensity correction (ADRIC). Medical Physics, 2017, 44, 2223-2241.	1.6	14
658	Experiments on sparsity assisted phase retrieval of phase objects. Journal of Optics (United Kingdom), 2017, 19, 055703.	1.0	2

#	ARTICLE	IF	CITATIONS
659	Sparse-View Image Reconstruction in Cone-Beam Computed Tomography with Variance-Reduced Stochastic Gradient Descent and Locally-Adaptive Proximal Operation. Journal of Medical and Biological Engineering, 2017, 37, 420-440.	1.0	2
660	Can real-time RGBD enhance intraoperative Cone-Beam CT?. International Journal of Computer Assisted Radiology and Surgery, 2017, 12, 1211-1219.	1.7	10
661	Low dose CT image statistical iterative reconstruction algorithms based on off-line dictionary sparse representation. Optik, 2017, 131, 785-797.	1.4	10
662	Discriminative Prior - Prior Image Constrained Compressed Sensing Reconstruction for Low-Dose CT Imaging. Scientific Reports, 2017, 7, 13868.	1.6	17
663	Shading correction assisted iterative cone-beam CT reconstruction. Physics in Medicine and Biology, 2017, 62, 8495-8520.	1.6	16
664	Technical Note: Evaluation of an iterative reconstruction algorithm for optical <sc>CT</sc> radiation dosimetry. Medical Physics, 2017, 44, 6678-6689.	1.6	11
665	Synchronous scanning mode of industrial computed tomography for multiple objects test. Journal of X-Ray Science and Technology, 2017, 25, 765-775.	0.7	3
666	Parameter selection in limited data cone-beam CT reconstruction using edge-preserving total variation algorithms. Physics in Medicine and Biology, 2017, 62, 9295-9321.	1.6	19
667	Data correlation based noise level estimation for cone beam projection data. Journal of X-Ray Science and Technology, 2017, 25, 907-926.	0.7	3
668	A Feasibility Study of Low-Dose Single-Scan Dual-Energy Cone-Beam CT in Many-View Under-Sampling Framework. IEEE Transactions on Medical Imaging, 2017, 36, 2578-2587.	5.4	31
669	Iterative CT reconstruction on limited angle trajectories applied to robotic inspection. AIP Conference Proceedings, 2017, . .	0.3	2
670	Quantitative Analysis of Intravoxel Incoherent Motion (IVIM) Diffusion <sc>MRI</sc> using Total Variation and Huber Penalty Function. Medical Physics, 2017, 44, 5849-5858.	1.6	10
671	Evaluation of digital tomosynthesis reconstruction algorithms used to reduce metal artifacts for arthroplasty: A phantom study. Physica Medica, 2017, 42, 28-38.	0.4	11
672	Optimization of Three-Dimensional (3D) Chemical Imaging by Soft X-Ray Spectro-Tomography Using a Compressed Sensing Algorithm. Microscopy and Microanalysis, 2017, 23, 951-966.	0.2	11
673	Optimization of the geometry and speed of a moving blocker system for cone-beam computed tomography scatter correction. Medical Physics, 2017, 44, e215-e229.	1.6	17
674	Iterative volume of interest based 4D cone-beam <sc>CT</sc>. Medical Physics, 2017, 44, 6515-6528.	1.6	3
675	A review of GPU-based medical image reconstruction. Physica Medica, 2017, 42, 76-92.	0.4	57
676	Shape recovery for sparse-data tomography. Mathematical Methods in the Applied Sciences, 2017, 40, 6649-6669.	1.2	5

#	ARTICLE	IF	CITATIONS
677	Superiorized algorithm for reconstruction of CT images from sparse-view and limited-angle polyenergetic data. <i>Physics in Medicine and Biology</i> , 2017, 62, 6762-6783.	1.6	19
678	Image reconstruction model for the exterior problem of computed tomography based on weighted directional total variation. <i>Applied Mathematical Modelling</i> , 2017, 52, 358-377.	2.2	19
679	A variational reconstruction method for undersampled dynamic x-ray tomography based on physical motion models. <i>Inverse Problems</i> , 2017, 33, 124008.	1.0	32
680	Coded aperture compressive X-ray spectral CT. , 2017, , .		2
681	Limited-Range Few-View CT: Using Historical Images for ROI Reconstruction in Solitary Lung Nodules Follow-up Examination. <i>IEEE Transactions on Medical Imaging</i> , 2017, 36, 2569-2577.	5.4	4
682	Image reconstruction and scan configurations enabled by optimization-based algorithms in multispectral CT. <i>Physics in Medicine and Biology</i> , 2017, 62, 8763-8793.	1.6	55
683	Discriminative Feature Representation to Improve Projection Data Inconsistency for Low Dose CT Imaging. <i>IEEE Transactions on Medical Imaging</i> , 2017, 36, 2499-2509.	5.4	94
684	Neutrosophic segmentation of breast lesions for dedicated breast CT. <i>Proceedings of SPIE</i> , 2017, , .	0.8	1
685	Pseudo-polar reconstruction for tomography. , 2017, , .		0
686	Low-dose CT denoising with convolutional neural network. , 2017, , .		76
687	Image reconstruction for cone-beam computed tomography using total $\langle i \rangle p \langle i \rangle$ -variation plus Kullback-Leibler data divergence. <i>Chinese Physics B</i> , 2017, 26, 078701.	0.7	1
689	In situ investigation on rapid microstructure evolution in extreme complex environment by developing a new AFBP-TVM sparse tomography algorithm from original CS-XPCMT. <i>Optics and Lasers in Engineering</i> , 2017, 96, 124-131.	2.0	7
690	Improved iterative image reconstruction algorithm for the exterior problem of computed tomography. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2017, 842, 96-108.	0.7	2
692	Noise Removal of Low-Dose CT Images Using Modified Smooth Patch Ordering. <i>IEEE Access</i> , 2017, 5, 26092-26103.	2.6	12
693	Z-Index Parameterization for Volumetric CT Image Reconstruction via 3-D Dictionary Learning. <i>IEEE Transactions on Medical Imaging</i> , 2017, 36, 2466-2478.	5.4	31
694	Improving Low-Dose CT Image Using Residual Convolutional Network. <i>IEEE Access</i> , 2017, 5, 24698-24705.	2.6	90
695	Sparse-Prior-Based Projection Distance Optimization Method for Joint CT-MRI Reconstruction. <i>IEEE Access</i> , 2017, 5, 20099-20110.	2.6	8
696	SparseBeads data: benchmarking sparsity-regularized computed tomography. <i>Measurement Science and Technology</i> , 2017, 28, 124005.	1.4	54

#	ARTICLE	IF	CITATIONS
697	Motion guided Spatiotemporal Sparsity for high quality 4D-CBCT reconstruction. Scientific Reports, 2017, 7, 17461.	1.6	9
698	A stochastic iterative evolution CT reconstruction algorithm for limited-angle sparse projection data. , 2017, , .		1
699	Providing Advanced Electron Tomography by Streamlining Alignment, Reconstruction, and 3D Visualization. Microscopy and Microanalysis, 2017, 23, 222-223.	0.2	4
700	Iterative Low-Dose CT Reconstruction With Priors Trained by Artificial Neural Network. IEEE Transactions on Medical Imaging, 2017, 36, 2479-2486.	5.4	175
701	A weighted difference of L1 and L2 on the gradient minimization based on alternating direction method for circular computed tomography. Journal of X-Ray Science and Technology, 2017, 25, 813-829.	0.7	6
702	Low-Dose CBCT Reconstruction Using Hessian Schatten Penalties. IEEE Transactions on Medical Imaging, 2017, 36, 2588-2599.	5.4	15
703	Differential SART for sub-Nyquist tomographic reconstruction in presence of misalignments. , 2017, , .		3
704	Efficient scheme of low-dose CT reconstruction using TV minimization with an adaptive stopping strategy and sparse dictionary learning for post-processing. Frontiers of Information Technology and Electronic Engineering, 2017, 18, 2001-2008.	1.5	2
705	Robust Low-Dose CT Sinogram Preprocessing via Exploiting Noise-Generating Mechanism. IEEE Transactions on Medical Imaging, 2017, 36, 2487-2498.	5.4	44
706	Guest Editorial Low-Dose CT: What Has Been Done, and What Challenges Remain?. IEEE Transactions on Medical Imaging, 2017, 36, 2409-2416.	5.4	19
707	Low-dose CT reconstruction using spatially encoded nonlocal penalty. Medical Physics, 2017, 44, e376-e390.	1.6	23
708	Comparison of analytic and iterative digital tomosynthesis reconstructions for thin slab objects. Journal of Instrumentation, 2017, 12, C11030-C11030.	0.5	1
709	Reduction of variable-truncation artifacts from beam occlusion during <i>in situ</i> x-ray tomography. Measurement Science and Technology, 2017, 28, 124004.	1.4	6
710	Radon Space Dose Optimization in Repeat CT Scanning. IEEE Transactions on Medical Imaging, 2017, 36, 2436-2448.	5.4	4
711	Swinging multi-source industrial CT systems for aperiodic dynamic imaging. Optics Express, 2017, 25, 24215.	1.7	24
712	Low-dose CT via convolutional neural network. Biomedical Optics Express, 2017, 8, 679.	1.5	549
714	Millisecond-order X-ray phase tomography with compressed sensing. Japanese Journal of Applied Physics, 2017, 56, 112503.	0.8	26
715	Hybrid spectral CT reconstruction. PLoS ONE, 2017, 12, e0180324.	1.1	37



#	ARTICLE	IF	CITATIONS
716	Fast alternating projection methods for constrained tomographic reconstruction. PLoS ONE, 2017, 12, e0172938.	1.1	3
717	Cone-beam CT reconstruction for non-periodic organ motion using time-ordered chain graph model. Radiation Oncology, 2017, 12, 145.	1.2	7
718	Double regularization medical CT image blind restoration reconstruction based on proximal alternating direction method of multipliers. Eurasip Journal on Image and Video Processing, 2017, 2017, .	1.7	3
719	Variational Bayesian blind restoration reconstruction based on shear wave transform for low-dose medical CT image. Eurasip Journal on Image and Video Processing, 2017, 2017, .	1.7	5
720	Penalized PET Reconstruction using CNN Prior. , 2017, , .		1
721	LEARN: Learned Experts <sup>™</sup> Assessment-Based Reconstruction Network for Sparse-Data CT. IEEE Transactions on Medical Imaging, 2018, 37, 1333-1347.	5.4	269
722	Algorithm-enabled partial-angular scan configurations for dual-energy CT. Medical Physics, 2018, 45, 1857-1870.	1.6	24
723	A new Mumford-Shah total variation minimization based model for sparse-view x-ray computed tomography image reconstruction. Neurocomputing, 2018, 285, 74-81.	3.5	10
724	An electron beam linear scanning mode for industrial limited-angle nano-computed tomography. Review of Scientific Instruments, 2018, 89, 015113.	0.6	4
725	Improved adaptive genetic algorithm with sparsity constraint applied to thermal neutron CT reconstruction of two-phase flow. Measurement Science and Technology, 2018, 29, 055404.	1.4	18
726	Multidetector Computed Tomography Imaging. Journal of Computer Assisted Tomography, 2018, 42, 441-447.	0.5	24
727	Hybrid reconstruction algorithm for computed tomography based on diagonal total variation. Nuclear Science and Techniques/Hewuli, 2018, 29, 1.	1.3	2
728	Development of a chest digital tomosynthesis R/F system and implementation of low-dose GPU-accelerated compressed sensing (CS) image reconstruction. Medical Physics, 2018, 45, 1871-1888.	1.6	4
729	Denosing Low-Dose CT Images Using Multiframe Blind Source Separation and Block Matching Filter. IEEE Transactions on Radiation and Plasma Medical Sciences, 2018, 2, 279-287.	2.7	29
730	Intelligent Parameter Tuning in Optimization-Based Iterative CT Reconstruction via Deep Reinforcement Learning. IEEE Transactions on Medical Imaging, 2018, 37, 1430-1439.	5.4	73
731	Deep Convolutional Framelets: A General Deep Learning Framework for Inverse Problems. SIAM Journal on Imaging Sciences, 2018, 11, 991-1048.	1.3	243
732	Comparison Study of Regularizations in Spectral Computed Tomography Reconstruction. Sensing and Imaging, 2018, 19, 1.	1.0	6
733	l0 regularization based on a prior image incorporated non-local means for limited-angle X-ray CT reconstruction. Journal of X-Ray Science and Technology, 2018, 26, 481-498.	0.7	8

#	ARTICLE	IF	CITATIONS
734	Reduced anatomical clutter in digital breast tomosynthesis with statistical iterative reconstruction. <i>Medical Physics</i> , 2018, 45, 2009-2022.	1.6	16
735	Block-matching sparsity regularization-based image reconstruction for low-dose computed tomography. <i>Medical Physics</i> , 2018, 45, 2439-2452.	1.6	7
736	Deep Convolutional Framelet Denoising for Low-Dose CT via Wavelet Residual Network. <i>IEEE Transactions on Medical Imaging</i> , 2018, 37, 1358-1369.	5.4	216
737	Automatic alignment for three-dimensional tomographic reconstruction. <i>Inverse Problems</i> , 2018, 34, 024004.	1.0	15
738	4D imaging of polymer electrolyte membrane fuel cell catalyst layers by soft X-ray spectro-tomography. <i>Journal of Power Sources</i> , 2018, 381, 72-83.	4.0	48
739	Low-dose CT restoration via stacked sparse denoising autoencoders. <i>Neurocomputing</i> , 2018, 284, 80-89.	3.5	61
740	Single-shot full resolution region-of-interest (ROI) reconstruction in image plane digital holographic microscopy. <i>Journal of Modern Optics</i> , 2018, 65, 1127-1134.	0.6	14
741	Sin-quadratic model for chest tomosynthesis respiratory signal analysis and its application in four dimensional chest tomosynthesis reconstruction. <i>Medical Engineering and Physics</i> , 2018, 52, 59-68.	0.8	3
742	Multi-slice ptychographic tomography. <i>Scientific Reports</i> , 2018, 8, 2049.	1.6	72
743	Sparse-view neutron-photon computed tomography: Object reconstruction and material discrimination. <i>Applied Radiation and Isotopes</i> , 2018, 132, 122-128.	0.7	2
744	Sampling limits for electron tomography with sparsity-exploiting reconstructions. <i>Ultramicroscopy</i> , 2018, 186, 94-103.	0.8	11
745	Scale-Space Anisotropic Total Variation for Limited Angle Tomography. <i>IEEE Transactions on Radiation and Plasma Medical Sciences</i> , 2018, 2, 307-314.	2.7	29
746	3-D Convolutional Encoder-Decoder Network for Low-Dose CT via Transfer Learning From a 2-D Trained Network. <i>IEEE Transactions on Medical Imaging</i> , 2018, 37, 1522-1534.	5.4	303
747	Low-Dose CT Image Denoising Using a Generative Adversarial Network With Wasserstein Distance and Perceptual Loss. <i>IEEE Transactions on Medical Imaging</i> , 2018, 37, 1348-1357.	5.4	983
748	Polar coordinate interior tomography. <i>Optik</i> , 2018, 168, 313-322.	1.4	2
749	Low dose CT reconstruction via L1 norm dictionary learning using alternating minimization algorithm and balancing principle. <i>Journal of X-Ray Science and Technology</i> , 2018, 26, 603-622.	0.7	6
750	A novel CT reconstruction algorithm for incomplete projection based on information repairment. <i>Optics and Lasers in Engineering</i> , 2018, 107, 207-213.	2.0	3
751	A Sparse-View CT Reconstruction Method Based on Combination of DenseNet and Deconvolution. <i>IEEE Transactions on Medical Imaging</i> , 2018, 37, 1407-1417.	5.4	261

#	ARTICLE	IF	CITATIONS
752	Low dose CBCT reconstruction via prior contour based total variation (PCTV) regularization: a feasibility study. <i>Physics in Medicine and Biology</i> , 2018, 63, 085014.	1.6	24
753	A fast 4D cone beam CT reconstruction method based on the OSC-TV algorithm. <i>Journal of X-Ray Science and Technology</i> , 2018, 26, 189-208.	0.7	2
754	A Reweighted Joint Spatial-Radon Domain CT Image Reconstruction Model for Metal Artifact Reduction. <i>SIAM Journal on Imaging Sciences</i> , 2018, 11, 707-733.	1.3	22
755	Optimization of image quality and acquisition time for lab-based X-ray microtomography using an iterative reconstruction algorithm. <i>Advances in Water Resources</i> , 2018, 115, 112-124.	1.7	12
756	Interior tomography in microscopic CT with image reconstruction constrained by full field of view scan at low spatial resolution. <i>Physics in Medicine and Biology</i> , 2018, 63, 075006.	1.6	10
757	3D Feature Constrained Reconstruction for Low-Dose CT Imaging. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2018, 28, 1232-1247.	5.6	98
758	Convergence properties of dynamic string-averaging projection methods in the presence of perturbations. <i>Numerical Algorithms</i> , 2018, 77, 185-209.	1.1	17
759	Image acquisition optimization of a limited-angle intrafraction verification (LIVE) system for lung radiotherapy. <i>Medical Physics</i> , 2018, 45, 340-351.	1.6	13
760	A separable quadratic surrogate total variation minimization algorithm for accelerating accurate CT reconstruction from few-views and limited-angle data. <i>Medical Physics</i> , 2018, 45, 535-548.	1.6	13
761	A singular K-space model for fast reconstruction of magnetic resonance images from undersampled data. <i>Medical and Biological Engineering and Computing</i> , 2018, 56, 1211-1225.	1.6	2
762	Block matching sparsity regularization-based image reconstruction for incomplete projection data in computed tomography. <i>Physics in Medicine and Biology</i> , 2018, 63, 035045.	1.6	4
763	An Image Reconstruction Method Based on Total Variation and Wavelet Tight Frame for Limited-Angle CT. <i>IEEE Access</i> , 2018, 6, 1461-1470.	2.6	23
764	Impact of statistical reconstruction and compressed sensing algorithms on projection data elimination during X-ray CT image reconstruction. <i>Oral Radiology</i> , 2018, 34, 237-244.	0.9	3
766	Nonlocal low-rank and sparse matrix decomposition for spectral CT reconstruction. <i>Inverse Problems</i> , 2018, 34, 024003.	1.0	46
767	Limited angle CT reconstruction by simultaneous spatial and Radon domain regularization based on TV and data-driven tight frame. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2018, 880, 107-117.	0.7	14
768	Reconstruction of 3D X-ray CT images from reduced sampling by a scaled gradient projection algorithm. <i>Computational Optimization and Applications</i> , 2018, 71, 171-191.	0.9	11
769	DEEP BACK PROJECTION FOR SPARSE-VIEW CT RECONSTRUCTION. , 2018, , .		15
770	Millimeter-Wave InSAR Image Reconstruction Approach by Total Variation Regularized Matrix Completion. <i>Remote Sensing</i> , 2018, 10, 1053.	1.8	3

#	ARTICLE	IF	CITATIONS
771	An ADMM Algorithm for Constrained Material Decomposition in Spectral CT. , 2018, , .		1
772	Anisotropic Total Variation Denoising Technique for Low-Dose Cone-Beam Computed Tomography Imaging. Progress in Medical Physics, 2018, 29, 150.	0.5	4
773	The Effectiveness of the Omnidirectional Illumination in Full-Ring Photoacoustic Tomography. , 2018, , .		1
774	Image Reconstruction using Self-Prior Information for Sparse-View Computed Tomography. , 2018, , .		2
775	A Hybrid Approach to Reduce Cone-Beam Artifacts for a Circular Orbit Cone-Beam CT System. IEEE Access, 2018, 6, 54595-54606.	2.6	1
776	Development of Limited-Angle Iterative Reconstruction Algorithms with Context Encoder-Based Sinogram Completion for Micro-CT Applications. Sensors, 2018, 18, 4458.	2.1	10
777	Factor Graphs with NUV Priors and Iteratively Reweighted Descent for Sparse Least Squares and More. , 2018, , .		9
778	Bayesian 3D X-Ray Computed Tomography with a Hierarchical Prior Model for Sparsity in Haar Transform Domain. Entropy, 2018, 20, 977.	1.1	2
779	Total Variation Iterative Linear Expansion of Thresholds with Applications in CT. , 2018, , .		1
780	Improve 3D cone-beam CT reconstruction by slice-wise deep learning. , 2018, , .		5
781	A Multi-Resolution Approach to Complexity Reduction in Tomographic Reconstruction. , 2018, , .		1
782	Simultaneous Reconstruction and Denoising of Spectral CT Images. , 2018, , .		0
783	Sensitivity Estimation and Image Reconstruction for Sparse PET with Deep Learning. , 2018, , .		4
784	Statistical CT reconstruction using region-aware texture preserving regularization learning from prior normal-dose CT image. Physics in Medicine and Biology, 2018, 63, 225020.	1.6	2
785	Sparsity-induced dynamic guided filtering approach for sparse-view data toward low-dose x-ray computed tomography. Physics in Medicine and Biology, 2018, 63, 235016.	1.6	8
786	Noise and Resolution Performance Evaluation for Statistical and Non-Statistical Iterative CBCT Reconstruction Methods. , 2018, , .		0
787	Multiple limited-angles computed tomography reconstruction based on multi-direction total variation minimization. Review of Scientific Instruments, 2018, 89, 125121.	0.6	5
788	A Novel Total Variation Model for Low-Dose CT Image Denoising. IEEE Access, 2018, 6, 78892-78903.	2.6	11

#	ARTICLE	IF	CITATIONS
789	New software protocols for enabling laboratory based temporal CT. Review of Scientific Instruments, 2018, 89, 093702.	0.6	22
790	Deep Learning Based Image Reconstruction for Diffuse Optical Tomography. Lecture Notes in Computer Science, 2018, , 112-119.	1.0	15
791	Deep Residual Learning for Model-Based Iterative CT Reconstruction Using Plug-and-Play Framework. , 2018, , .		21
792	Some Investigations on Robustness of Deep Learning in Limited Angle Tomography. Lecture Notes in Computer Science, 2018, , 145-153.	1.0	80
793	Adaptive Weighted Total Variation Minimization Based Alternating Direction Method of Multipliers for Limited Angle CT Reconstruction. IEEE Access, 2018, 6, 64225-64236.	2.6	13
794	Iterative reconstruction for photon-counting CT using prior image constrained total generalized variation. Computers in Biology and Medicine, 2018, 103, 167-182.	3.9	12
795	An improved nonlinear diffusion in Laplacian pyramid domain for cone beam CT denoising during image-guided vascular intervention. BMC Medical Imaging, 2018, 18, 25.	1.4	4
796	Design and Simulation Study of a CNT-Based Multisource Cubical CT System for Dynamic Objects. Scanning, 2018, 2018, 1-15.	0.7	4
797	Cryo scanning transmission x-ray microscope optimized for spectrotomography. Review of Scientific Instruments, 2018, 89, 093704.	0.6	17
798	An adaptive multiscale anisotropic diffusion regularized image reconstruction method for digital breast tomosynthesis. Australasian Physical and Engineering Sciences in Medicine, 2018, 41, 993-1008.	1.4	2
799	Contrast-Enhanced CT with Knowledge-Based Iterative Model Reconstruction for the Evaluation of Parotid Gland Tumors: A Feasibility Study. Korean Journal of Radiology, 2018, 19, 957.	1.5	7
800	Super-Resolution of Magnetic Resonance Images via Convex Optimization with Local and Global Prior Regularization and Spectrum Fitting. International Journal of Biomedical Imaging, 2018, 2018, 1-17.	3.0	2
801	A wavelet gradient sparsity based algorithm for reconstruction of reduced-view tomography datasets obtained with a monochromatic synchrotron-based X-ray source. Computerized Medical Imaging and Graphics, 2018, 69, 69-81.	3.5	7
802	A new adaptive-weighted total variation sparse-view computed tomography image reconstruction with local improved gradient information. Journal of X-Ray Science and Technology, 2018, 26, 957-975.	0.7	10
803	Statistical Iterative CBCT Reconstruction Based on Neural Network. IEEE Transactions on Medical Imaging, 2018, 37, 1511-1521.	5.4	33
804	Ultrasonic Wave-Speed Diffraction Tomography With Undersampled Data Using Virtual Transducers. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2018, 65, 1226-1238.	1.7	7
805	Block-Matching Local SVD Operator-Based Sparsity and TV Regularization for Image Reconstruction in Computed Tomography. Sensing and Imaging, 2018, 19, 1.	1.0	1
806	Framing U-Net via Deep Convolutional Framelets: Application to Sparse-View CT. IEEE Transactions on Medical Imaging, 2018, 37, 1418-1429.	5.4	388

#	ARTICLE	IF	CITATIONS
807	3-D weighted CBCT iterative reconstruction with TV minimization from angularly under-sampled projection data. <i>Optik</i> , 2018, 172, 161-176.	1.4	3
808	Optimization-based image reconstruction from sparsely sampled data in electron paramagnetic resonance imaging. <i>Journal of Magnetic Resonance</i> , 2018, 294, 24-34.	1.2	16
809	Correction of center of rotation and projection angle in synchrotron X-ray computed tomography. <i>Scientific Reports</i> , 2018, 8, 9884.	1.6	30
810	Spatial-spectral cube matching frame for spectral CT reconstruction. <i>Inverse Problems</i> , 2018, 34, 104003.	1.0	29
811	Nth-order linear algorithm for diffuse correlation tomography. <i>Biomedical Optics Express</i> , 2018, 9, 2365.	1.5	12
812	Characterization of the crystal structure, kinematics, stresses and rotations in angular granular quartz during compaction. <i>Journal of Applied Crystallography</i> , 2018, 51, 1021-1034.	1.9	26
813	Space-time tomography for continuously deforming objects. <i>ACM Transactions on Graphics</i> , 2018, 37, 1-14.	4.9	33
814	An adaptive iteration reconstruction method for limited-angle CT image reconstruction. <i>Journal of Inverse and Ill-Posed Problems</i> , 2018, 26, 771-787.	0.5	7
815	Joint regularization-based image reconstruction by combining data-driven tight frame and total variation for low-dose computed tomography. <i>Journal of X-Ray Science and Technology</i> , 2018, 26, 785-803.	0.7	0
816	Resolution and noise performance of sparse view X-ray CT reconstruction via Lp-norm regularization. <i>Physica Medica</i> , 2018, 52, 72-80.	0.4	9
817	On the data acquisition, image reconstruction, cone beam artifacts, and their suppression in axial <sc>MDCT</sc> and <sc>CBCT</sc> â€“ A review. <i>Medical Physics</i> , 2018, 45, e761.	1.6	21
818	Use of a Total Variation Minimization Iterative Reconstruction Algorithm to Evaluate Reduced Projections during Digital Breast Tomosynthesis. <i>BioMed Research International</i> , 2018, 2018, 1-14.	0.9	6
819	Structurally-Sensitive Multi-Scale Deep Neural Network for Low-Dose CT Denoising. <i>IEEE Access</i> , 2018, 6, 41839-41855.	2.6	169
820	Tomographic Image Reconstruction with a Spatially Varying Gamma Mixture Prior. <i>Journal of Mathematical Imaging and Vision</i> , 2018, 60, 1355-1365.	0.8	4
821	Investigation of the preconditioner-parameter in the preconditioned Chambolle-Pock algorithm applied to optimization-based image reconstruction. <i>Journal of X-Ray Science and Technology</i> , 2018, 26, 435-448.	0.7	2
822	Ultrafast Ultrasound Imaging as an Inverse Problem: Matrix-Free Sparse Image Reconstruction. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2018, 65, 339-355.	1.7	27
823	A non-smooth and non-convex regularization method for limited-angle CT image reconstruction. <i>Journal of Inverse and Ill-Posed Problems</i> , 2018, 26, 799-820.	0.5	6
824	Artifact Removal using Improved GoogLeNet for Sparse-view CT Reconstruction. <i>Scientific Reports</i> , 2018, 8, 6700.	1.6	112

#	ARTICLE	IF	CITATIONS
825	Learning deconvolutional deep neural network for high resolution medical image reconstruction. Information Sciences, 2018, 468, 142-154.	4.0	58
826	Regularization strategies in statistical image reconstruction of low-dose x-ray CT: A review. Medical Physics, 2018, 45, e886-e907.	1.6	35
827	3D X-ray Tomography - Basics and Latest Developments. , 2018, , 1-14.		3
828	An improved algebraic reconstruction technique for reconstructing tomographic gamma scanning image. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2018, 906, 77-82.	0.7	9
829	K-edge-based interior tomography. Physics in Medicine and Biology, 2018, 63, 165017.	1.6	0
830	Novel methods for metal artifact reduction in x-ray tomography. , 2018, , .		0
831	Sparsity Order Estimation From a Single Compressed Observation Vector. IEEE Transactions on Signal Processing, 2018, 66, 3958-3971.	3.2	12
832	Inter-fraction variations in motion modeling using patient 4D-cone beam CT images. , 2018, , .		1
833	Edge Information Diffusion-Based Reconstruction for Cone Beam Computed Laminography. IEEE Transactions on Image Processing, 2018, 27, 4663-4675.	6.0	14
834	Few-view CT reconstruction with group sparsity regularization. International Journal for Numerical Methods in Biomedical Engineering, 2018, 34, e3101.	1.0	22
835	QR-Factorization Algorithm for Computed Tomography (CT): Comparison With FDK and Conjugate Gradient (CG) Algorithms. IEEE Transactions on Radiation and Plasma Medical Sciences, 2018, 2, 459-469.	2.7	6
836	Endoscopic System Based on Intraoral Camera and Image Processing. IEEE Transactions on Biomedical Engineering, 2019, 66, 1026-1033.	2.5	3
837	Traditional machine learning for limited angle tomography. International Journal of Computer Assisted Radiology and Surgery, 2019, 14, 11-19.	1.7	8
838	An Empirical Data Inconsistency Metric (DIM) Driven CT Image Reconstruction Method. IEEE Transactions on Medical Imaging, 2019, 38, 337-348.	5.4	5
839	Optimizing a Parameterized Plug-and-Play ADMM for Iterative Low-Dose CT Reconstruction. IEEE Transactions on Medical Imaging, 2019, 38, 371-382.	5.4	101
840	Sparse Tensor Constrained for Low Dose CT Reconstruction. , 2019, , .		1
841	Low-Dose CT Image Denoising Model Based on Sparse Representation by Stationarily Classified Sub-Dictionaries. IEEE Access, 2019, 7, 116859-116874.	2.6	9
842	In-Depth Exploration of Signal Self-Cancellation Phenomenon to Achieve DOA Estimation of Underwater Acoustic Sources. Applied Sciences (Switzerland), 2019, 9, 570.	1.3	3

#	ARTICLE	IF	CITATIONS
843	Guided Image Filtering Based Limited-Angle CT Reconstruction Algorithm Using Wavelet Frame. IEEE Access, 2019, 7, 99954-99963.	2.6	5
844	Positron emission tomography image reconstruction using feature extraction. Journal of X-Ray Science and Technology, 2019, 27, 949-963.	0.7	1
845	Four-Dimensional CBCT Reconstruction Based on a Residual Convolutional Neural Network for Improving Image Quality. Journal of the Korean Physical Society, 2019, 75, 73-79.	0.3	1
846	On-the-Fly Machine Learning for Improving Image Resolution in Tomography. Applied Sciences (Switzerland), 2019, 9, 2445.	1.3	9
847	Research on asymmetric flame reconstruction based on prior regularization and its intelligent improvement. Optik, 2019, 192, 162941.	1.4	1
848	Adaptive iterative reconstruction based on relative total variation for low-intensity computed tomography. Signal Processing, 2019, 165, 149-162.	2.1	33
849	Gradient regularized convolutional neural networks for low-dose CT image enhancement. Physics in Medicine and Biology, 2019, 64, 165017.	1.6	13
850	Regularized reconstruction based on joint $L_1$ and total variation for sparse-view cone-beam X-ray luminescence computed tomography. Biomedical Optics Express, 2019, 10, 1.	1.5	23
851	Experimental Research of In Vivo Mouse Cardiac 4D Micro-CT Imaging via Deformation Vector Field Registration. Sensing and Imaging, 2019, 20, 1.	1.0	0
852	SPARE: Sparse-view reconstruction challenge for 4D cone-beam CT from a 1-min scan. Medical Physics, 2019, 46, 3799-3811.	1.6	47
853	Low dose cone-beam computed tomography reconstruction via hybrid prior contour based total variation regularization (hybrid-PCTV). Quantitative Imaging in Medicine and Surgery, 2019, 9, 1214-1228.	1.1	6
854	Probabilistic approach to limited-data computed tomography reconstruction. Inverse Problems, 2019, 35, 105004.	1.0	12
855	Promising Generative Adversarial Network Based Sinogram Inpainting Method for Ultra-Limited-Angle Computed Tomography Imaging. Sensors, 2019, 19, 3941.	2.1	38
856	Ultrasonic-microwave assisted synthesis of GO/g-C <sub>3</sub> N <sub>4</sub> composites for efficient photocatalytic H <sub>2</sub> evolution. Solid State Sciences, 2019, 97, 105990.	1.5	31
857	Blind deconvolution in model-based iterative reconstruction for CT using a normalized sparsity measure. Physics in Medicine and Biology, 2019, 64, 215010.	1.6	5
858	Pareto frontier analysis of spatio-temporal total-variation based four-dimensional cone-beam CT. Biomedical Physics and Engineering Express, 2019, 5, 065011.	0.6	1
859	Image reconstruction for positron emission tomography based on patch-based regularization and dictionary learning. Medical Physics, 2019, 46, 5014-5026.	1.6	22
860	Improved Material Decomposition With a Two-Step Regularization for Spectral CT. IEEE Access, 2019, 7, 158770-158781.	2.6	30



#	ARTICLE	IF	CITATIONS
861	A deep learning reconstruction framework for X-ray computed tomography with incomplete data. PLoS ONE, 2019, 14, e0224426.	1.1	43
862	Sparse-view statistical image reconstruction with improved total variation regularization for X-ray micro-CT imaging. Journal of Instrumentation, 2019, 14, P08023-P08023.	0.5	11
863	Ordered subsets Non-Local means constrained reconstruction for sparse view cone beam CT system. Australasian Physical and Engineering Sciences in Medicine, 2019, 42, 1117-1128.	1.4	0
864	Semi-Supervised Learning for Low-Dose CT Image Restoration with Hierarchical Deep Generative Adversarial Network (HD-GAN). , 2019, 2019, 2683-2686.		6
865	Box Spline Projection in Non-Parallel Geometry. , 2019, , .		0
866	Laminography in the lab: imaging planar objects using a conventional x-ray CT scanner. Measurement Science and Technology, 2019, 30, 035401.	1.4	25
867	A Convolutional Framework for Forward and Back-Projection in Fan-Beam Geometry. , 2019, , .		1
868	Comparison of three undersampling approaches in computed tomography reconstruction. Quantitative Imaging in Medicine and Surgery, 2019, 9, 1229-1241.	1.1	3
869	A Virtual Monochromatic Imaging Method for Spectral CT Based on Wasserstein Generative Adversarial Network With a Hybrid Loss. IEEE Access, 2019, 7, 110992-111011.	2.6	11
870	Artifact Suppressed Nonlinear Diffusion Filtering for Low-Dose CT Image Processing. IEEE Access, 2019, 7, 109856-109869.	2.6	5
871	Spectral Ct Reconstruction Via Self-Similarity In Image-Spectral Tensors. , 2019, , .		0
872	Compressive sensing in medical signal processing and imaging systems. , 2019, , 69-92.		16
873	Development of a denoising convolutional neural network-based algorithm for metal artifact reduction in digital tomosynthesis for arthroplasty: A phantom study. PLoS ONE, 2019, 14, e0222406.	1.1	5
874	A robust virtual-camera 3D shape reconstruction of deforming bubbles/droplets with additional physical constraints. International Journal of Multiphase Flow, 2019, 120, 103088.	1.6	23
875	Limited-View Cone-Beam CT Reconstruction Based on an Adversarial Autoencoder Network With Joint Loss. IEEE Access, 2019, 7, 7104-7116.	2.6	11
876	Image reconstruction model for limited-angle CT based on prior image induced relative total variation. Applied Mathematical Modelling, 2019, 74, 586-605.	2.2	19
877	Computationally efficient deep neural network for computed tomography image reconstruction. Medical Physics, 2019, 46, 4763-4776.	1.6	47
878	Sparsity promoting regularization for effective noise suppression in SPECT image reconstruction. Inverse Problems, 2019, 35, 115011.	1.0	8

#	ARTICLE	IF	CITATIONS
879	Advances in cardiovascular imaging. Current Opinion in Biomedical Engineering, 2019, 9, A3.	1.8	0
880	Known-component 3D image reconstruction for improved intraoperative imaging in spine surgery: A clinical pilot study. Medical Physics, 2019, 46, 3483-3495.	1.6	12
881	Effect of combination and number of b values in IVIM analysis with post-processing methodology: simulation and clinical study. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2019, 32, 519-527.	1.1	15
882	Few-view CT image reconstruction using improved total variation regularization. Journal of X-Ray Science and Technology, 2019, 27, 739-753.	0.7	8
883	Image reconstruction by Mumford-Shah regularization for low-dose CT with multi-GPU acceleration. Physics in Medicine and Biology, 2019, 64, 155017.	1.6	6
884	Learning the invisible: a hybrid deep learning-shearlet framework for limited angle computed tomography. Inverse Problems, 2019, 35, 064002.	1.0	111
885	Domain Progressive 3D Residual Convolution Network to Improve Low-Dose CT Imaging. IEEE Transactions on Medical Imaging, 2019, 38, 2903-2913.	5.4	147
886	Iterative image reconstruction for sparse-view CT via total variation regularization and dictionary learning. Journal of X-Ray Science and Technology, 2019, 27, 573-590.	0.7	2
887	Iterative Methods for Computing the Resolvent of the Sum of a Maximal Monotone Operator and Composite Operator with Applications. Mathematical Problems in Engineering, 2019, 2019, 1-19.	0.6	5
888	A survey of computational frameworks for solving the acoustic inverse problem in three-dimensional photoacoustic computed tomography. Physics in Medicine and Biology, 2019, 64, 14TR01.	1.6	69
889	A fast regularized iterative algorithm for fan-beam CT reconstruction. Physics in Medicine and Biology, 2019, 64, 145006.	1.6	17
890	An in-situ study of stress evolution and fracture growth during compression of concrete. International Journal of Solids and Structures, 2019, 168, 26-40.	1.3	19
892	Efficient Constrained Signal Reconstruction by Randomized Epigraphical Projection. , 2019, , .		13
893	Sparsity-assisted phase retrieval in the Fresnel zone. Journal of Modern Optics, 2019, 66, 1296-1304.	0.6	6
894	Augmentation of CBCT Reconstructed From Under-Sampled Projections Using Deep Learning. IEEE Transactions on Medical Imaging, 2019, 38, 2705-2715.	5.4	52
895	ADMM-based deep reconstruction for limited-angle CT. Physics in Medicine and Biology, 2019, 64, 115011.	1.6	28
896	Sparse-view CT reconstruction based on gradient directional total variation. Measurement Science and Technology, 2019, 30, 055404.	1.4	12
897	A simulation study of a fan-beam time-of-flight fast-neutron tomography system. Applied Radiation and Isotopes, 2019, 149, 52-59.	0.7	1

#	ARTICLE	IF	CITATIONS
898	Convolutional Sparse Coding for Compressed Sensing CT Reconstruction. IEEE Transactions on Medical Imaging, 2019, 38, 2607-2619.	5.4	86
899	Slice-wise reconstruction for low-dose cone-beam CT using a deep residual convolutional neural network. Nuclear Science and Techniques/Hewuli, 2019, 30, 1.	1.3	16
900	4D digital tomosynthesis image reconstruction using brute force-based adaptive total variation (BF-ATV) in a prototype LINAC system. Physics in Medicine and Biology, 2019, 64, 095029.	1.6	4
901	Investigation of transmission computed tomography (CT) image quality and x-ray dose achievable from an experimental dual-mode benchtop x-ray fluorescence CT and transmission CT system. Journal of X-Ray Science and Technology, 2019, 27, 431-442.	0.7	4
902	Image restoration based on projection onto convex sets algorithm for beam modulation CT acquisition. Radiation Physics and Chemistry, 2019, 158, 199-204.	1.4	1
903	Spectral CT Reconstruction – ASSIST: Aided by Self-Similarity in Image-Spectral Tensors. IEEE Transactions on Computational Imaging, 2019, 5, 420-436.	2.6	29
904	SparseCT: System concept and design of multislit collimators. Medical Physics, 2019, 46, 2589-2599.	1.6	6
905	Deep iterative reconstruction estimation (DIRE): approximate iterative reconstruction estimation for low dose CT imaging. Physics in Medicine and Biology, 2019, 64, 135007.	1.6	33
906	Nonlocal total variation based dynamic PET image reconstruction with low-rank constraints. Physica Scripta, 2019, 94, 065202.	1.2	7
907	Development of a computed tomography system capable of tracking high-velocity unbounded material through a reconstruction volume. International Journal of Impact Engineering, 2019, 129, 26-35.	2.4	6
908	Fast electron tomography: Applications to beam sensitive samples and in situ TEM or operando environmental TEM studies. Materials Characterization, 2019, 151, 480-495.	1.9	36
909	Undersampled Dynamic X-Ray Tomography With Dimension Reduction Kalman Filter. IEEE Transactions on Computational Imaging, 2019, 5, 492-501.	2.6	9
910	Simulation-based deep artifact correction with Convolutional Neural Networks for limited angle artifacts. Zeitschrift Fur Medizinische Physik, 2019, 29, 150-161.	0.6	18
911	An image reconstruction model regularized by edge-preserving diffusion and smoothing for limited-angle computed tomography. Inverse Problems, 2019, 35, 085004.	1.0	45
912	A Normalized Metal Artifact Reduction Method Using an Artifact-Reduced Prior for Dental Computed Tomography. Journal of the Korean Physical Society, 2019, 74, 298-304.	0.3	2
913	Limited-angle image reconstruction based on Mumford – Shah-like model and wavelet tight frames. Journal of Optics (India), 2019, 48, 3-17.	0.8	0
914	McSART: an iterative model-based, motion-compensated SART algorithm for CBCT reconstruction. Physics in Medicine and Biology, 2019, 64, 095013.	1.6	15
915	Dose Adjustments for Accuracy: Ultralow Dose Radiation 3D CBCT for Dental and Orthodontic Application. , 2019, , 85-95.		0

#	ARTICLE	IF	CITATIONS
916	Real-time respiratory triggered four dimensional cone-beam CT halves imaging dose compared to conventional 4D CBCT. <i>Physics in Medicine and Biology</i> , 2019, 64, 07NT01.	1.6	4
917	Generative Noise Reduction in Dental Cone-Beam CT by a Selective Anatomy Analytic Iteration Reconstruction Algorithm. <i>Electronics (Switzerland)</i> , 2019, 8, 1381.	1.8	7
918	III-V on Si solar cells behavior at NIRT and LILT conditions for space applications. , 2019, , .		0
919	Compressive Sensing and Autoencoder Based Compressed Data Aggregation for Green IoT Networks. , 2019, , .		4
920	Improved Adaptive Bilateral Filter. , 2019, , .		0
921	A Clinical Prototype Transrectal Diffuse Optical Tomography (TRDOT) System for In vivo Monitoring of Photothermal Therapy (PTT) of Focal Prostate Cancer. <i>IEEE Transactions on Biomedical Engineering</i> , 2019, 67, 1-1.	2.5	17
922	Multiple Transmitter Localization under Time-Skewed Observations. , 2019, , .		4
923	AutoBoxing: Improving GCC Passes to Optimize HW/SW Multi-Versioning of Kernels for HLS. , 2019, , .		0
924	Composite L-Type TL for Spurious Band Suppression in Dual-Band Power Divider Studies. , 2019, , .		1
925	Lora Characteristics Analysis for IoT Application using NS3 Simulator. , 2019, , .		4
927	Physical-Layer Security for Untrusted UAV-Assisted Full-Duplex Wireless Networks. , 2019, , .		6
928	A Transformer-based Injection-Locked Frequency Divider in 65-nm CMOS Technology. , 2019, , .		2
929	A 32-bit Energy Efficient Exact Dadda Multiplier. , 2019, , .		4
930	Compressed Sensing MRI Reconstruction Using Generative Adversarial Network with Enhanced Antagonism. , 2019, , .		3
931	State-Of-The-Art X-Ray Digital Tomosynthesis Imaging. , 0, , .		0
933	Nascent Space Powers: Some Policy Issues. , 2019, , .		1
934	Low-Dose CT Image Denoising Using Cycle-Consistent Adversarial Networks. , 2019, , .		13
935	Advanced 4-dimensional cone-beam computed tomography reconstruction by combining motion estimation, motion-compensated reconstruction, biomechanical modeling and deep learning. <i>Visual Computing for Industry, Biomedicine, and Art</i> , 2019, 2, 23.	2.2	7

#	ARTICLE	IF	CITATIONS
936	Optimization reconstruction of biregular term from limited-angle projections. IOP Conference Series: Earth and Environmental Science, 2019, 332, 042002.	0.2	1
937	Daily edge deformation prediction using an unsupervised convolutional neural network model for low dose prior contour based total variation CBCT reconstruction (PCTV-CNN). Biomedical Physics and Engineering Express, 2019, 5, 065013.	0.6	3
938	Data Mining in The NBA: An Applied Approach. , 2019, , .		2
939	Aspects of Highly-channeled MeV Implants of Dopants in Si(100). , 2019, , .		2
940	Temporal JSON. , 2019, , .		10
941	Vibration Reduction, Characterization of Drill bit and Femur Bone to Forces During Robotic-Assisted Drilling Using Model Soft Fixture Embedded with Pressurized-Air Damper. , 2019, , .		1
942	An Analysis of Univariate and Multivariate Electrocardiography Signal Classification. , 2019, , .		5
943	Topology Graph Pruning for Optical Mapping Methods using Edge Betweenness Centrality. , 2019, , .		2
945	TRAK: A Testing Tool for Studying the Reliability of Data Delivery in Apache Kafka. , 2019, , .		16
946	Blur Identification of the Degraded Images Based on Convolutional Neural Network. , 2019, , .		0
947	Designing and Modelling of Power Converter for Renewable Powered Hybrid Vehicle. , 2019, , .		6
948	Low-dose computed tomography scheme incorporating residual learning-based denoising with iterative reconstruction. Electronics Letters, 2019, 55, 174-176.	0.5	4
949	Low-dose dual energy CT image reconstruction using non-local deep image prior. , 2019, , .		7
950	A Two-Step Inertial Primal-Dual Algorithm for Minimizing the Sum of Three Functions. IEEE Access, 2019, 7, 161748-161753.	2.6	1
951	Limited-View X-Ray Tomography Combining Attenuation and Compton Scatter Data: Approach and Experimental Results. IEEE Access, 2019, 7, 165734-165747.	2.6	6
952	Hybrid Optimization Method (HOM) Reconstruction with limited angle in Dual Energy Breast CT. , 2019, 2019, 4875-4880.		0
953	Projection data smoothing through noise-level weighted total variation regularization for low-dose computed tomography. Journal of X-Ray Science and Technology, 2019, 27, 537-557.	0.7	6
954	Unpaired Low-Dose CT Denoising Network Based on Cycle-Consistent Generative Adversarial Network with Prior Image Information. Computational and Mathematical Methods in Medicine, 2019, 2019, 1-11.	0.7	40

#	ARTICLE	IF	CITATIONS
955	Patient-specific reconstruction of volumetric computed tomography images from a single projection view via deep learning. <i>Nature Biomedical Engineering</i> , 2019, 3, 880-888.	11.6	163
956	Combining dual-tree complex wavelets and multiresolution in iterative CT reconstruction with application to metal artifact reduction. <i>BioMedical Engineering OnLine</i> , 2019, 18, 116.	1.3	0
957	A Direct Material Reconstruction Method for DECT Based on Total Variation and BM3D Frame. <i>IEEE Access</i> , 2019, 7, 138579-138592.	2.6	1
958	Deep-Neural-Network-Based Sinogram Synthesis for Sparse-View CT Image Reconstruction. <i>IEEE Transactions on Radiation and Plasma Medical Sciences</i> , 2019, 3, 109-119.	2.7	152
959	Iterative PET Image Reconstruction Using Convolutional Neural Network Representation. <i>IEEE Transactions on Medical Imaging</i> , 2019, 38, 675-685.	5.4	188
960	Few-view computed tomography image reconstruction using mean curvature model with curvature smoothing and surface fitting. <i>IEEE Transactions on Nuclear Science</i> , 2019, 66, 585-596.	1.2	3
961	Reconstruction-Aware Imaging System Ranking by Use of a Sparsity-Driven Numerical Observer Enabled by Variational Bayesian Inference. <i>IEEE Transactions on Medical Imaging</i> , 2019, 38, 1251-1262.	5.4	3
962	Cycle-consistent adversarial denoising network for multiphase coronary CT angiography. <i>Medical Physics</i> , 2019, 46, 550-562.	1.6	157
963	A variational proximal alternating linearized minimization in a given metric for limited-angle CT image reconstruction. <i>Applied Mathematical Modelling</i> , 2019, 67, 315-336.	2.2	11
964	Model-based material decomposition with a penalized nonlinear least-squares CT reconstruction algorithm. <i>Physics in Medicine and Biology</i> , 2019, 64, 035005.	1.6	21
965	Performance of sparse-view CT reconstruction with multi-directional gradient operators. <i>PLoS ONE</i> , 2019, 14, e0209674.	1.1	4
966	The evolution of image reconstruction for CT—from filtered back projection to artificial intelligence. <i>European Radiology</i> , 2019, 29, 2185-2195.	2.3	335
967	A Generalized Structured Low-Rank Matrix Completion Algorithm for MR Image Recovery. <i>IEEE Transactions on Medical Imaging</i> , 2019, 38, 1841-1851.	5.4	21
968	A fast iteration approach to undersampled cone-beam CT reconstruction. <i>Journal of X-Ray Science and Technology</i> , 2019, 27, 111-129.	0.7	1
969	Confidence Interval Constraint-Based Regularization Framework for PET Quantization. <i>IEEE Transactions on Medical Imaging</i> , 2019, 38, 1513-1523.	5.4	3
970	Speed-of-Sound Imaging Based on Reflector Delineation. <i>IEEE Transactions on Biomedical Engineering</i> , 2019, 66, 1949-1962.	2.5	18
971	Total image constrained diffusion tensor for spectral computed tomography reconstruction. <i>Applied Mathematical Modelling</i> , 2019, 68, 487-508.	2.2	9
972	Accurate Iterative FBP Reconstruction Method for Material Decomposition of Dual Energy CT. <i>IEEE Transactions on Medical Imaging</i> , 2019, 38, 802-812.	5.4	15

#	ARTICLE	IF	CITATIONS
973	Reconstruction of sparse-view tomography via preconditioned Radon sensing matrix. <i>Journal of Applied Mathematics and Computing</i> , 2019, 59, 285-303.	1.2	5
974	The integrated acceleration of the Chambolle-Pock algorithm applied to constrained TV minimization in CT image reconstruction. <i>Inverse Problems in Science and Engineering</i> , 2019, 27, 237-254.	1.2	0
975	Derivative-free superiorization with component-wise perturbations. <i>Numerical Algorithms</i> , 2019, 80, 1219-1240.	1.1	6
976	Automatic Change Detection in Sparse Repeat CT Scanning. <i>IEEE Transactions on Medical Imaging</i> , 2020, 39, 48-61.	5.4	2
977	Comparison of TVcDM and DDcTV algorithms in image reconstruction. <i>Inverse Problems in Science and Engineering</i> , 2020, 28, 839-858.	1.2	3
978	Living Near the Edge: A Lower-Bound on the Phase Transition of Total Variation Minimization. <i>IEEE Transactions on Information Theory</i> , 2020, 66, 3261-3267.	1.5	9
979	Two stage residual CNN for texture denoising and structure enhancement on low dose CT image. <i>Computer Methods and Programs in Biomedicine</i> , 2020, 184, 105115.	2.6	29
980	Multichannel interpolation of nonuniform samples with application to image recovery. <i>Journal of Computational and Applied Mathematics</i> , 2020, 367, 112502.	1.1	8
981	Image reconstruction method for exterior circular cone-beam CT based on weighted directional total variation in cylindrical coordinates. <i>Journal of Inverse and Ill-Posed Problems</i> , 2020, 28, 155-172.	0.5	5
982	CT Super-Resolution GAN Constrained by the Identical, Residual, and Cycle Learning Ensemble (GAN-CIRCLE). <i>IEEE Transactions on Medical Imaging</i> , 2020, 39, 188-203.	5.4	289
983	CT image reconstruction algorithms based on the Hanke Raus parameter choice rule. <i>Inverse Problems in Science and Engineering</i> , 2020, 28, 87-103.	1.2	2
984	Total Variation (TV) $\ell_1$ Norm Minimization Based Limited Data X-ray CT Image Reconstruction. <i>Research in Nondestructive Evaluation</i> , 2020, 31, 164-186.	0.5	5
985	Generalized Gaussian model-based reconstruction method of computed tomography image from fewer projections. <i>Signal, Image and Video Processing</i> , 2020, 14, 547-555.	1.7	3
986	GPU acceleration of a model-based iterative method for Digital Breast Tomosynthesis. <i>Scientific Reports</i> , 2020, 10, 43.	1.6	6
987	Quadratic Autoencoder (Q-AE) for Low-Dose CT Denoising. <i>IEEE Transactions on Medical Imaging</i> , 2020, 39, 2035-2050.	5.4	72
988	Enhancement of the Kaczmarz algorithm with projection adjustment. <i>Numerical Algorithms</i> , 2020, 85, 713-736.	1.1	0
989	Reconstruction method for DECT with one half-scan plus a second limited-angle scan using prior knowledge of complementary support set (Pri-CSS). <i>Physics in Medicine and Biology</i> , 2020, 65, 025005.	1.6	11
990	Multiscale X-ray tomography of cementitious materials: A review. <i>Cement and Concrete Research</i> , 2020, 128, 105824.	4.6	127

#	ARTICLE	IF	CITATIONS
991	Model-Based Iterative Reconstruction for Propagation-Based Phase-Contrast X-Ray CT including Models for the Source and the Detector. IEEE Transactions on Medical Imaging, 2020, 39, 1975-1987.	5.4	6
992	On a general smoothly truncated regularization for variational piecewise constant image restoration: construction and convergent algorithms. Inverse Problems, 2020, 36, 045007.	1.0	11
993	Statistical Image Restoration for Low-Dose CT using Convolutional Neural Networks*. , 2020, 2020, 1303-1306.		2
994	Multi-energy CT reconstruction using tensor nonlocal similarity and spatial sparsity regularization. Quantitative Imaging in Medicine and Surgery, 2020, 10, 1940-1960.	1.1	7
995	Arbitrarily large tomography with iterative algorithms on multiple GPUs using the TIGRE toolbox. Journal of Parallel and Distributed Computing, 2020, 146, 52-63.	2.7	19
996	A Novel Stationary CT Scheme Based on High-Density X-Ray Sources Device. IEEE Access, 2020, 8, 112910-112921.	2.6	7
997	Learning Sub-Sampling and Signal Recovery With Applications in Ultrasound Imaging. IEEE Transactions on Medical Imaging, 2020, 39, 3955-3966.	5.4	30
998	A Preliminary Study on Projection Denoising for Low-dose CT Imaging Using Modified Dual-Domain U-net. , 2020, , .		5
999	Optimization for customized trajectories in cone beam computed tomography. Medical Physics, 2020, 47, 4786-4799.	1.6	18
1000	Statistical image-based material decomposition for triple-energy computed tomography using total variation regularization. Journal of X-Ray Science and Technology, 2020, 28, 1-21.	0.7	2
1001	Artificial intelligence in image reconstruction: The change is here. Physica Medica, 2020, 79, 113-125.	0.4	53
1002	Sparse-view CT reconstruction based on multi-level wavelet convolution neural network. Physica Medica, 2020, 80, 352-362.	0.4	25
1003	Unsupervised Training of Denoisers for Low-Dose CT Reconstruction Without Full-Dose Ground Truth. IEEE Journal on Selected Topics in Signal Processing, 2020, 14, 1112-1125.	7.3	22
1004	Incomplete angle reconstruction algorithm with the sparse optimization and the image optimal criterions. International Journal of Advanced Robotic Systems, 2020, 17, 172988142091697.	1.3	1
1005	Low-dose dental CT image enhancement using a multiscale feature sensing network. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2020, 981, 164530.	0.7	4
1006	A novel cardiac SPECT system and imaging method. Imaging Science Journal, 2020, 68, 201-213.	0.2	0
1007	TomoFluid: Reconstructing Dynamic Fluid From Sparse View Videos. , 2020, , .		14
1008	Dynamic compressed sensing for real-time tomographic reconstruction. Ultramicroscopy, 2020, 219, 113122.	0.8	5



#	ARTICLE	IF	CITATIONS
1009	3D Unet Generative Adversarial Network for Attenuation Correction of SPECT Images. , 2020, , .		8
1010	FASpecT/CT, A New SPECT/CT Acquisition With Higher Sensitivity and Efficiency in Radioiodine Thyroid Cancer Imaging. Clinical Nuclear Medicine, 2020, 45, 356-364.	0.7	3
1011	Soft Autoencoder and Its Wavelet Adaptation Interpretation. IEEE Transactions on Computational Imaging, 2020, 6, 1245-1257.	2.6	11
1012	A residual dense network assisted sparse view reconstruction for breast computed tomography. Scientific Reports, 2020, 10, 21111.	1.6	13
1013	Optimal Transport Driven CycleGAN for Unsupervised Learning in Inverse Problems. SIAM Journal on Imaging Sciences, 2020, 13, 2281-2306.	1.3	37
1014	A Computationally Efficient Reconstruction Algorithm for Circular Cone-Beam Computed Tomography Using Shallow Neural Networks. Journal of Imaging, 2020, 6, 135.	1.7	6
1015	An Accelerated Convergence Algorithm for Sparse-View CT Image Reconstruction. IOP Conference Series: Materials Science and Engineering, 2020, 782, 042031.	0.3	0
1016	StatNet: Statistical Image Restoration for Low-Dose CT using Deep Learning. IEEE Journal on Selected Topics in Signal Processing, 2020, 14, 1137-1150.	7.3	26
1017	Efficient Hyper-Parameter Selection in Total Variation-Penalised XCT Reconstruction Using Freund and Shapire's Hedge Approach. Mathematics, 2020, 8, 493.	1.1	5
1018	Quantifying day-to-day variations in 4DCBCT-based PCA motion models. Biomedical Physics and Engineering Express, 2020, 6, 035020.	0.6	4
1019	An adaptive regularized iterative FBP algorithm with high sharpness for irradiated fuel assembly reconstruction from few projections in FNCT. Annals of Nuclear Energy, 2020, 145, 107515.	0.9	5
1020	Cone-Angle Artifact Removal Using Differentiated Backprojection Domain Deep Learning. , 2020, , .		1
1021	Sparse dynamic tomography: a shearlet-based approach for iodine perfusion in plant stems. Inverse Problems, 2020, 36, 094002.	1.0	6
1022	Low Dose CT Image Reconstruction Based on Structure Tensor Total Variation Using Accelerated Fast Iterative Shrinkage Thresholding Algorithm. Sensors, 2020, 20, 1647.	2.1	5
1023	An Introduction to IEEE Standard 1458-2017: Recommended Practice Update for Molded-Case Circuit Breakers for Industrial Applications. IEEE Industry Applications Magazine, 2020, 26, 37-41.	0.3	2
1024	Opinion Dynamics With Cross-Coupling Topics: Modeling and Analysis. IEEE Transactions on Computational Social Systems, 2020, 7, 632-647.	3.2	17
1025	Sparse View CT Image Reconstruction Based on Total Variation and Wavelet Frame Regularization. IEEE Access, 2020, 8, 57400-57413.	2.6	9
1026	In Situ High-Resolution AFM Imaging and Force Probing of Cell Culture Medium-Forming Nanogranular Surfaces for Cell Growth. IEEE Transactions on Nanobioscience, 2020, 19, 385-393.	2.2	8

#	ARTICLE	IF	CITATIONS
1027	Low-dose CT with deep learning regularization via proximal forwardâ€‘backward splitting. Physics in Medicine and Biology, 2020, 65, 125009.	1.6	28
1028	Modulation Properties of an Extended Cavity Diode Laser and Dynamic Mode Splitting. IEEE Journal of Quantum Electronics, 2020, 56, 1-7.	1.0	3
1029	Control Methods in Automated Glycemia Maintaining System. , 2020, , .		0
1030	Passivity-based control design for a continuum robotic manipulator with disturbances. , 2020, , .		1
1031	Fast Split Bregman Based Deconvolution Algorithm for Airborne Radar Imaging. Remote Sensing, 2020, 12, 1747.	1.8	11
1032	Image Restoration for Low-Dose CT via Transfer Learning and Residual Network. IEEE Access, 2020, 8, 112078-112091.	2.6	20
1033	Differentiated Backprojection Domain Deep Learning for Conebeam Artifact Removal. IEEE Transactions on Medical Imaging, 2020, 39, 3571-3582.	5.4	7
1034	Smoothed L0-Constraint Dictionary Learning for Low-Dose X-Ray CT Reconstruction. IEEE Access, 2020, 8, 116961-116973.	2.6	12
1035	Highâ€‘quality initial imageâ€‘guided 4D CBCT reconstruction. Medical Physics, 2020, 47, 2099-2115.	1.6	20
1036	Tomographic reconstruction with spatially varying parameter selection. Inverse Problems, 2020, 36, 054002.	1.0	3
1037	A MLEM-TV-MRP Algorithm for Fast Neutron Computed Tomography Reconstruction of High Statistical Noise and Sparse Sampling. IEEE Access, 2020, 8, 3397-3407.	2.6	2
1038	Fusion-On-Field Security and Privacy Preservation for IoT Edge Devices: Concurrent Defense Against Multiple Types of Hardware Trojan Attacks. IEEE Access, 2020, 8, 36847-36862.	2.6	14
1039	Pipeline Leak Detection Technology Based on Distributed Optical Fiber Acoustic Sensing System. IEEE Access, 2020, 8, 30789-30796.	2.6	64
1040	A Doubly Constrained TV Algorithm for Image Reconstruction. Mathematical Problems in Engineering, 2020, 2020, 1-15.	0.6	2
1041	Simultaneous optimization of renewable energy and energy storage capacity with hierarchical control. CSEE Journal of Power and Energy Systems, 0, , .	1.7	40
1042	Multi-Scale Dilated Convolution Neural Network for Image Artifact Correction of Limited-Angle Tomography. IEEE Access, 2020, 8, 1567-1576.	2.6	6
1043	Radon Inversion via Deep Learning. IEEE Transactions on Medical Imaging, 2020, 39, 2076-2087.	5.4	85
1044	Study of CT image reconstruction algorithm based on high order total variation. Optik, 2020, 204, 163814.	1.4	8

#	ARTICLE	IF	CITATIONS
1045	SACNN: Self-Attention Convolutional Neural Network for Low-Dose CT Denoising With Self-Supervised Perceptual Loss Network. IEEE Transactions on Medical Imaging, 2020, 39, 2289-2301.	5.4	170
1046	Self-Guided Limited-Angle Computed Tomography Reconstruction Based on Anisotropic Relative Total Variation. IEEE Access, 2020, 8, 70465-70476.	2.6	10
1047	Low-Dose CT Image Denoising Using a Generative Adversarial Network With a Hybrid Loss Function for Noise Learning. IEEE Access, 2020, 8, 67519-67529.	2.6	43
1048	<i>LookCom</i>: Learning Optimal Network for Community Detection. IEEE Transactions on Knowledge and Data Engineering, 2022, 34, 764-775.	4.0	4
1049	Power and Frequency Regulation of Synchronverters Using a Model Free Neural Network-Based Predictive Controller. IEEE Transactions on Industrial Electronics, 2021, 68, 3662-3671.	5.2	29
1050	REDAEP: Robust and Enhanced Denoising Autoencoding Prior for Sparse-View CT Reconstruction. IEEE Transactions on Radiation and Plasma Medical Sciences, 2021, 5, 108-119.	2.7	23
1051	DPIR-Net: Direct PET Image Reconstruction Based on the Wasserstein Generative Adversarial Network. IEEE Transactions on Radiation and Plasma Medical Sciences, 2021, 5, 35-43.	2.7	56
1052	Artifact Removal in Sparse-Angle CT Based on Feature Fusion Residual Network. IEEE Transactions on Radiation and Plasma Medical Sciences, 2021, 5, 261-271.	2.7	12
1053	Image-Domain Material Decomposition for Spectral CT Using a Generalized Dictionary Learning. IEEE Transactions on Radiation and Plasma Medical Sciences, 2021, 5, 537-547.	2.7	20
1054	Weighted adaptive non-local dictionary for low-dose CT reconstruction. Signal Processing, 2021, 180, 107871.	2.1	11
1055	Hybrid-Domain Neural Network Processing for Sparse-View CT Reconstruction. IEEE Transactions on Radiation and Plasma Medical Sciences, 2021, 5, 88-98.	2.7	51
1056	Investigation of Low-Dose CT Image Denoising Using Unpaired Deep Learning Methods. IEEE Transactions on Radiation and Plasma Medical Sciences, 2021, 5, 224-234.	2.7	42
1057	Development of a novel reconstruction method for two-phase flow CT with improved simulated annealing algorithm. Nuclear Engineering and Technology, 2021, 53, 1304-1310.	1.1	0
1058	Comparison of heuristic and deterministic algorithms in neutron coded imaging reconstruction. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2021, 985, 164704.	0.7	4
1059	Non-convex primal-dual algorithm for image reconstruction in spectral CT. Computerized Medical Imaging and Graphics, 2021, 87, 101821.	3.5	23
1060	Design, simulation and reconstruction for a fast speed two-phase flow CT with <sup>241</sup> Am gamma ray sources. Annals of Nuclear Energy, 2021, 151, 107970.	0.9	4
1061	Low-dose computed tomography reconstruction regularized by structural group sparsity joined with gradient prior. Signal Processing, 2021, 182, 107945.	2.1	6
1062	Computed Tomography Reconstruction with Uncertain View Angles by Iteratively Updated Model Discrepancy. Journal of Mathematical Imaging and Vision, 2021, 63, 133-143.	0.8	5

#	ARTICLE	IF	CITATIONS
1063	Do CNNs Solve the CT Inverse Problem?. IEEE Transactions on Biomedical Engineering, 2021, 68, 1799-1810.	2.5	27
1064	An Analysis of the Superiorization Method via the Principle of Concentration of Measure. Applied Mathematics and Optimization, 2021, 83, 2273-2301.	0.8	2
1065	Correlative STEM-HAADF and STEM-EDX tomography for the 3D morphological and chemical analysis of semiconductor devices. Semiconductor Science and Technology, 2021, 36, 035006.	1.0	3
1066	Learnable Multi-scale Fourier Interpolation for Sparse View CT Image Reconstruction. Lecture Notes in Computer Science, 2021, , 286-295.	1.0	6
1067	An efficient multi-grid method for TV minimization problems. Inverse Problems and Imaging, 2021, 15, 1199.	0.6	2
1068	CLEAR: Comprehensive Learning Enabled Adversarial Reconstruction for Subtle Structure Enhanced Low-Dose CT Imaging. IEEE Transactions on Medical Imaging, 2021, 40, 3089-3101.	5.4	52
1069	Unpaired Image Denoising via Wasserstein GAN in Low-Dose CT Image with Multi-Perceptual Loss and Fidelity Loss. Symmetry, 2021, 13, 126.	1.1	25
1070	Compressible Latent-Space Invertible Networks for Generative Model-Constrained Image Reconstruction. IEEE Transactions on Computational Imaging, 2021, 7, 209-223.	2.6	13
1071	3-D Inspection Method for Industrial Product Assembly Based on Single X-Ray Projections. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-14.	2.4	8
1072	3-D Indoor Device-Free Object Detection by Passive Radio Frequency Identification. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-13.	2.4	5
1073	Mean Gradient Descent Algorithm for Single-Shot Interferogram Analysis. Springer Proceedings in Physics, 2021, , 509-512.	0.1	0
1074	The synthesis of high-energy CT images from low-energy CT images using an improved cycle generative adversarial network. Quantitative Imaging in Medicine and Surgery, 2022, 12, 28-42.	1.1	5
1075	CT-Scan Denoising Using a Charbonnier Loss Generative Adversarial Network. IEEE Access, 2021, 9, 84093-84109.	2.6	15
1076	Optical conductivity of triple point fermions. Journal of Physics Condensed Matter, 2021, 33, 125701.	0.7	5
1077	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
1078	Joint Motion Estimation and Compensation for Four-Dimensional Cone-Beam Computed Tomography Image Reconstruction. IEEE Access, 2021, 9, 147559-147569.	2.6	0
1079	Data Extrapolation From Learned Prior Images for Truncation Correction in Computed Tomography. IEEE Transactions on Medical Imaging, 2021, 40, 3042-3053.	5.4	15
1080	Deep High-Resolution Network for Low-Dose X-Ray CT Denoising. Journal of Artificial Intelligence for Medical Sciences, 2021, 2, 33.	1.3	1

#	ARTICLE	IF	CITATIONS
1081	MAGIC: Manifold and Graph Integrative Convolutional Network for Low-Dose CT Reconstruction. IEEE Transactions on Medical Imaging, 2021, 40, 3459-3472.	5.4	53
1082	Noise Conscious Training of Non Local Neural Network Powered by Self Attentive Spectral Normalized Markovian Patch GAN for Low Dose CT Denoising. IEEE Transactions on Medical Imaging, 2021, 40, 3663-3673.	5.4	38
1083	Research on ADMM Reconstruction Algorithm of Photoacoustic Tomography With Limited Sampling Data. IEEE Access, 2021, 9, 113631-113641.	2.6	3
1084	Recurrent learning with clique structures for prostate sparse-view CT artifacts reduction. IET Image Processing, 2021, 15, 648-655.	1.4	2
1085	Total Variant Based Average Sparsity Model With Reweighted Analysis for Compressive Sensing of Computed Tomography. IEEE Access, 2021, 9, 119158-119170.	2.6	8
1086	Limited-Angle CT Reconstruction via the $L_{1/2}$ Minimization. SIAM Journal on Imaging Sciences, 2021, 14, 749-777.	1.3	29
1087	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
1088	A Dual-Domain CNN-Based Network for CT Reconstruction. IEEE Access, 2021, 9, 71091-71103.	2.6	16
1089	Learning to scan: A deep reinforcement learning approach for personalized scanning in CT imaging. Inverse Problems and Imaging, 2021, .	0.6	1
1090	Deep Interactive Denoiser (DID) for X-Ray Computed Tomography. IEEE Transactions on Medical Imaging, 2021, 40, 1-1.	5.4	3
1091	NON-ITERATIVE MICROWAVE IMAGING SOLUTIONS FOR INVERSE PROBLEMS USING DEEP LEARNING. Progress in Electromagnetics Research M, 2021, 102, 53-63.	0.5	6
1092	Prior image-guided cone-beam computed tomography augmentation from under-sampled projections using a convolutional neural network. Quantitative Imaging in Medicine and Surgery, 2021, 11, 4767-4780.	1.1	4
1093	Learning to Reconstruct CT Images From the VBP-Tensor. IEEE Transactions on Medical Imaging, 2021, 40, 3030-3041.	5.4	8
1094	Guided image filtering based $\alpha$ -gradient minimization for limited-angle CT image reconstruction. Journal of Inverse and Ill-Posed Problems, 2021, 29, 587-598.	0.5	2
1095	MetalInv-Net: Meta Inversion Network for Sparse View CT Image Reconstruction. IEEE Transactions on Medical Imaging, 2021, 40, 621-634.	5.4	39
1096	Low-dose CBCT reconstruction via joint non-local total variation denoising and cubic B-spline interpolation. Scientific Reports, 2021, 11, 3681.	1.6	2
1097	A Model-Based Optimization Framework for Iterative Digital Breast Tomosynthesis Image Reconstruction. Journal of Imaging, 2021, 7, 36.	1.7	10
1098	Accelerated 3D image reconstruction with a morphological pyramid and noise-power convergence criterion. Physics in Medicine and Biology, 2021, 66, 055012.	1.6	5

#	ARTICLE	IF	CITATIONS
1099	Dual residual convolutional neural network (DRCNN) for low-dose CT imaging. Journal of X-Ray Science and Technology, 2021, 29, 91-109.	0.7	7
1100	Optimizing iterative reconstruction for quantification of calcium hydroxyapatite with photon counting flat-detector computed tomography: a cardiac phantom study. Journal of Medical Imaging, 2021, 8, 052102.	0.8	4
1101	Probabilistic self-learning framework for low-dose CT denoising. Medical Physics, 2021, 48, 2258-2270.	1.6	23
1102	Prior-image-based CT reconstruction using attenuation-mismatched priors. Physics in Medicine and Biology, 2021, 66, 064007.	1.6	2
1103	Efficient radiation dose reduction in whole-brain CT perfusion imaging using a 3D GAN: performance and clinical feasibility. Physics in Medicine and Biology, 2021, 66, 075008.	1.6	9
1104	Quantitative Comparison of Deep Learning-Based Image Reconstruction Methods for Low-Dose and Sparse-Angle CT Applications. Journal of Imaging, 2021, 7, 44.	1.7	24
1105	Iterative reconstruction algorithm based on discriminant adaptive-weighted TV regularization for fibrous biological tissues using in-line X-ray phase-contrast imaging. Biomedical Optics Express, 2021, 12, 2460.	1.5	2
1106	A Novel Low-Dose Dual-Energy Imaging Method for a Fast-Rotating Gantry-Type CT Scanner. IEEE Transactions on Medical Imaging, 2021, 40, 1007-1020.	5.4	7
1107	First application of the GPU-based software framework TIGRE for proton CT image reconstruction. Physica Medica, 2021, 84, 56-64.	0.4	6
1108	A simple and fast ASD-POCS algorithm for image reconstruction. Journal of X-Ray Science and Technology, 2021, 29, 1-16.	0.7	2
1109	Directional-TV algorithm for image reconstruction from limited-angular-range data. Medical Image Analysis, 2021, 70, 102030.	7.0	40
1110	Linear programming-based reconstruction algorithm for limited angular sparse-view tomography. Optics and Lasers in Engineering, 2021, 140, 106524.	2.0	1
1111	Low-dose CT imaging via cascaded ResUnet with spectrum loss. Methods, 2022, 202, 78-87.	1.9	5
1112	A New Approach for Cylindrical Steel Structure Deformation Monitoring by Dense Point Clouds. Remote Sensing, 2021, 13, 2263.	1.8	11
1113	A fast image reconstruction method for planar objects CT inspired by differentiation property of Fourier transform (DPFT). Inverse Problems, 2021, 37, 075001.	1.0	6
1114	A signal detection model for quantifying overregularization in nonlinear image reconstruction. Medical Physics, 2021, 48, 6312-6323.	1.6	1
1115	PWLS-PR: low-dose computed tomography image reconstruction using a patch-based regularization method based on the penalized weighted least squares total variation approach. Quantitative Imaging in Medicine and Surgery, 2021, 11, 2541-2559.	1.1	5
1116	An Improved Particle Swarm Optimization Based on Total Variation Regularization and Projection Constraint with Applications in Ground-Penetrating Radar Inversion: A Model Simulation Study. Remote Sensing, 2021, 13, 2514.	1.8	9

#	ARTICLE	IF	CITATIONS
1117	Compressed medical imaging based on average sparsity model and reweighted analysis of multiple basis pursuit. <i>Computerized Medical Imaging and Graphics</i> , 2021, 90, 101927.	3.5	15
1118	Computed tomography with view angle estimation using uncertainty quantification. <i>Inverse Problems</i> , 2021, 37, 065007.	1.0	5
1119	Regularization-parameter-free optimization approach for image deconvolution. <i>Applied Optics</i> , 2021, 60, 5669.	0.9	6
1120	A balanced total-variation-Chambolle-Pock algorithm for EPR imaging. <i>Journal of Magnetic Resonance</i> , 2021, 328, 107009.	1.2	7
1121	Weakly-supervised progressive denoising with unpaired CT images. <i>Medical Image Analysis</i> , 2021, 71, 102065.	7.0	15
1122	A TV-minimization image-reconstruction algorithm without system matrix. <i>Journal of X-Ray Science and Technology</i> , 2021, 29, 1-15.	0.7	4
1124	High-Resolution Full-3D Specimen Imaging for Lumpectomy Margin Assessment in Breast Cancer. <i>Annals of Surgical Oncology</i> , 2021, 28, 5513-5524.	0.7	10
1125	Iterative material decomposition for spectral CT using self-supervised Noise2Noise prior. <i>Physics in Medicine and Biology</i> , 2021, 66, 155013.	1.6	17
1126	Efficient high cone-angle artifact reduction in circular cone-beam CT using deep learning with geometry-aware dimension reduction. <i>Physics in Medicine and Biology</i> , 2021, 66, 135015.	1.6	1
1127	High through-plane resolution CT imaging with self-supervised deep learning. <i>Physics in Medicine and Biology</i> , 2021, 66, 145013.	1.6	8
1128	Compressive sensing of wind speed data of large-scale spatial structures with dedicated dictionary using time-shift strategy. <i>Mechanical Systems and Signal Processing</i> , 2021, 157, 107685.	4.4	20
1129	Blind restoration of solar images via the Channel Sharing Spatio-temporal Network. <i>Astronomy and Astrophysics</i> , 2021, 652, A50.	2.1	4
1130	Measuring 3D Cell Culture Viability in Multiple 3D Printed Scaffolds Within a Single Miniature Electrical Impedance Tomography Sensor. <i>Advanced Engineering Materials</i> , 2021, 23, 2100338.	1.6	3
1131	Low-Dose CT Image Denoising with Improving WGAN and Hybrid Loss Function. <i>Computational and Mathematical Methods in Medicine</i> , 2021, 2021, 1-14.	0.7	12
1132	Tomography of dark-field scatter including single-exposure Moiré fringe analysis with X-ray biprism interferometry—A simulation study. <i>Medical Physics</i> , 2021, 48, 6293-6311.	1.6	2
1133	Noise2Context: Context-assisted learning 3D thin-layer for low-dose CT. <i>Medical Physics</i> , 2021, 48, 5794-5803.	1.6	12
1134	CoShaRP: a convex program for single-shot tomographic shape sensing. <i>Inverse Problems</i> , 2021, 37, 105005.	1.0	0
1135	An iterative reconstruction method for sparse-projection data for low-dose CT. <i>Journal of X-Ray Science and Technology</i> , 2021, 29, 1-16.	0.7	1

#	ARTICLE	IF	CITATIONS
1136	Computational imaging with an extended field of view. Journal of Optics (United Kingdom), 2021, 23, 085703.	1.0	3
1137	Dictionary Learning-Based Image Reconstruction for Terahertz Computed Tomography. Journal of Infrared, Millimeter, and Terahertz Waves, 2021, 42, 829-842.	1.2	8
1138	Deep Learning for Compressive Imaging. , 2021, , 458-469.		0
1139	The LASSO and its Cousins. , 2021, , 129-141.		1
1140	Wavelets. , 2021, , 188-221.		0
1141	Multi GPU parallelization of maximum likelihood expectation maximization method for digital rock tomography data. Scientific Reports, 2021, 11, 18536.	1.6	6
1142	ADMM approach for efficient iterative tomographic deconvolution reconstruction of 3D quantitative phase images. Applied Optics, 2021, 60, 8485.	0.9	2
1143	Model-data-driven image reconstruction with neural networks for ultrasound computed tomography breast imaging. Neurocomputing, 2022, 467, 10-21.	3.5	13
1144	Analysis of Optimization Algorithms. , 2021, , 166-187.		0
1145	A Short Guide to Compressive Imaging. , 2021, , 47-74.		0
1147	Stable and Accurate Neural Networks for Compressive Imaging. , 2021, , 501-520.		0
1149	Neural Networks and Deep Learning. , 2021, , 431-457.		1
1153	Reducing residualâ€ motion artifacts in iterative 3D CBCT reconstruction in imageâ€ guided radiation therapy. Medical Physics, 2021, 48, 6497-6507.	1.6	3
1154	Multidirectional Anisotropic Total Variation and Its Application in the Tomography of the Surrounding Rock of Coal Mining Faces. Shock and Vibration, 2021, 2021, 1-15.	0.3	0
1159	Techniques for Enhancing Performance. , 2021, , 75-100.		0
1160	A Taste of Wavelet Approximation Theory. , 2021, , 222-236.		0
1163	Integration of 2D iteration and a 3D CNN-based model for multi-type artifact suppression in C-arm cone-beam CT. Machine Vision and Applications, 2021, 32, 1.	1.7	3
1164	Low-Dose CT Denoising Using A Structure-Preserving Kernel Prediction Network. , 2021, ,		3



#	ARTICLE	IF	CITATIONS
1165	Sampling Strategies for Compressive Imaging. , 2021, , 353-372.		0
1166	Infinite-Dimensional Compressed Sensing. , 2021, , 334-348.		0
1168	Images, Transforms and Sampling. , 2021, , 30-46.		0
1169	A modified algebraic reconstruction algorithm for sparse projection. Annals of Translational Medicine, 2021, 9, 1422-1422.	0.7	1
1170	Exploring Frontiers of 4D X-ray Tomography. Applied Sciences (Switzerland), 2021, 11, 8868.	1.3	11
1171	Deep learning based image reconstruction for sparse-view diffuse optical tomography. Waves in Random and Complex Media, 0, , 1-17.	1.6	2
1172	Ultra-Low-Dose Spectral CT Based on a Multi-level Wavelet Convolutional Neural Network. Journal of Digital Imaging, 2021, 34, 1359-1375.	1.6	4
1174	Total Variation Minimization. , 2021, , 403-426.		0
1178	From Global to Local. , 2021, , 241-266.		0
1179	Recovery Guarantees for Wavelet-Based Compressive Imaging. , 2021, , 373-402.		0
1180	A prior image constraint robust principal component analysis reconstruction method for sparse segmental multi-energy computed tomography. Quantitative Imaging in Medicine and Surgery, 2021, 11, 4097-4114.	1.1	2
1181	Local Structure and Nonuniform Recovery. , 2021, , 267-304.		0
1183	Optimization for Compressed Sensing. , 2021, , 142-165.		0
1186	Local Structure and Uniform Recovery. , 2021, , 305-333.		0
1187	Accuracy and Stability of Deep Learning for Compressive Imaging. , 2021, , 470-500.		0
1188	An Introduction to Conventional Compressed Sensing. , 2021, , 105-128.		0
1189	Accurate and robust sparse-view angle CT image reconstruction using deep learning and prior image constrained compressed sensing (DL- $\epsilon$ PICCS). Medical Physics, 2021, 48, 5765-5781.	1.6	15
1190	Deep frequency-recurrent priors for inverse imaging reconstruction. Signal Processing, 2022, 190, 108320.	2.1	4

#	ARTICLE	IF	CITATIONS
1191	Acceleration of X-ray computed tomography scanning with high-quality reconstructed volume by deblurring transmission images using convolutional neural networks. Precision Engineering, 2022, 73, 153-165.	1.8	4
1192	Fully Automatic Sliding Motion Compensated and Simultaneous 4D-CBCT via Bilateral Filtering. Frontiers in Oncology, 2020, 10, 568627.	1.3	3
1193	Ant Colony-Based Hyperparameter Optimisation in Total Variation Reconstruction in X-ray Computed Tomography. Sensors, 2021, 21, 591.	2.1	8
1194	High-speed rotating device for X-ray tomography with 10 ms temporal resolution. Journal of Synchrotron Radiation, 2021, 28, 322-326.	1.0	16
1195	Deep Learning With Adaptive Hyper-Parameters for Low-Dose CT Image Reconstruction. IEEE Transactions on Computational Imaging, 2021, 7, 648-660.	2.6	15
1196	TED-Net: Convolution-Free T2T Vision Transformer-Based Encoder-Decoder Dilation Network for Low-Dose CT Denoising. Lecture Notes in Computer Science, 2021, , 416-425.	1.0	22
1197	On Hallucinations in Tomographic Image Reconstruction. IEEE Transactions on Medical Imaging, 2021, 40, 3249-3260.	5.4	38
1198	l1/2 regularization for wavelet frames based few-view CT reconstruction. E3S Web of Conferences, 2021, 269, 01020.	0.2	0
1199	Helical CT Reconstruction from Sparse-view Data through Exploiting the 3D Anatomical Structure Sparsity. IEEE Access, 2021, , 1-1.	2.6	31
1200	Improving Generalizability in Limited-Angle CT Reconstruction with Sinogram Extrapolation. Lecture Notes in Computer Science, 2021, , 86-96.	1.0	9
1202	Electron Tomography in Materials Science. Springer Handbooks, 2019, , 1279-1329.	0.3	11
1203	Consensus Neural Network for Medical Imaging Denoising with Only Noisy Training Samples. Lecture Notes in Computer Science, 2019, , 741-749.	1.0	32
1204	Data Consistent Artifact Reduction for Limited Angle Tomography with Deep Learning Prior. Lecture Notes in Computer Science, 2019, , 101-112.	1.0	20
1205	Superiorization for Image Analysis. Lecture Notes in Computer Science, 2014, , 1-7.	1.0	12
1206	A Fast Sparse Block Circulant Matrix Vector Product. Lecture Notes in Computer Science, 2014, , 548-559.	1.0	1
1208	A Parametric Level-Set Method for Partially Discrete Tomography. Lecture Notes in Computer Science, 2017, , 122-134.	1.0	6
1209	A Spectral Approach to Total Variation. Lecture Notes in Computer Science, 2013, , 36-47.	1.0	22
1210	Image Quality Analysis of Limited Angle Tomography Using the Shift-Variant Data Loss Model. Informatik Aktuell, 2016, , 277-282.	0.4	4

#	ARTICLE	IF	CITATIONS
1211	Cone-beam breast computed tomography using ultra-fast image reconstruction with constrained, total-variation minimization for suppression of artifacts. <i>Physica Medica</i> , 2020, 73, 117-124.	0.4	12
1213	Deep Learning-based Inaccuracy Compensation in Reconstruction of High Resolution XCT Data. <i>Scientific Reports</i> , 2020, 10, 7682.	1.6	18
1214	Chapter 6. Electron Tomography. <i>RSC Nanoscience and Nanotechnology</i> , 2015, , 211-299.	0.2	1
1215	Limited angle tomography for transmission X-ray microscopy using deep learning. <i>Journal of Synchrotron Radiation</i> , 2020, 27, 477-485.	1.0	21
1216	Learned Full-Sampling Reconstruction From Incomplete Data. <i>IEEE Transactions on Computational Imaging</i> , 2020, 6, 945-957.	2.6	16
1217	Neutrosophic segmentation of breast lesions for dedicated breast computed tomography. <i>Journal of Medical Imaging</i> , 2018, 5, 1.	0.8	4
1218	Robust multimaterial decomposition of spectral CT using convolutional neural networks. <i>Optical Engineering</i> , 2019, 58, 1.	0.5	23
1219	Proposal of fault-tolerant tomographic image reconstruction. , 2016, , .		2
1220	Multispectral x-ray CT: multivariate statistical analysis for efficient reconstruction. , 2017, , .		3
1221	Real-time image reconstruction for low-dose CT using deep convolutional generative adversarial networks (GANs). , 2018, , .		10
1222	Sparse-view CT reconstruction with improved GoogLeNet. , 2018, , .		2
1223	Harnessing the power of deep learning for volumetric CT imaging with single or limited number of projections. , 2019, , .		5
1224	Exploring the space between smoothed and non-smooth total variation for 3D iterative CT reconstruction. , 2019, , .		1
1225	Metal artifact reduction in CT using fault-tolerant image reconstruction. , 2019, , .		3
1226	Learned primal-dual reconstruction for dual energy computed tomography with reduced dose. , 2019, , .		4
1227	Database-assisted low-dose CT image restoration. <i>Medical Physics</i> , 2013, 40, 031109.	1.6	18
1228	Low-Dose X-ray Computed Tomography Reconstruction Using Curvelet Sparse Regularization. <i>Journal of Medical Imaging and Health Informatics</i> , 2018, 8, 1665-1672.	0.2	2
1229	An inner-outer iteration method for solving convex optimization problems involving the sum of three convex functions. <i>Scientia Sinica Mathematica</i> , 2019, 49, 831.	0.1	5

#	ARTICLE	IF	CITATIONS
1230	Maximum a posteriori signal recovery for optical coherence tomography angiography image generation and denoising. Biomedical Optics Express, 2021, 12, 55.	1.5	4
1231	Single-shot interferogram analysis for accurate reconstruction of step phase objects. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2017, 34, 349.	0.8	21
1232	Mean gradient descent: an optimization approach for single-shot interferogram analysis. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2019, 36, D7.	0.8	15
1233	Image gradient $L_0$ -norm based PICCS for swinging multi-source CT reconstruction. Optics Express, 2019, 27, 5264.	1.7	13
1234	Source and coded aperture joint optimization for compressive X-ray tomosynthesis. Optics Express, 2019, 27, 6640.	1.7	11
1235	Multi-pass approach to reduce cone-beam artifacts in a circular orbit cone-beam CT system. Optics Express, 2019, 27, 10108.	1.7	10
1236	Sparse-view CBCT reconstruction via weighted Schatten p-norm minimization. Optics Express, 2020, 28, 35469.	1.7	41
1237	Multibeam x-ray optical system for high-speed tomography. Optica, 2020, 7, 514.	4.8	26
1238	Photon-limited ptychography of 3D objects via Bayesian reconstruction. OSA Continuum, 2019, 2, 2948.	1.8	18
1239	Single Shot High Resolution Digital Holographic Microscopy. , 2014, , .		2
1240	High Fidelity System Modeling for High Quality Image Reconstruction in Clinical CT. PLoS ONE, 2014, 9, e111625.	1.1	3
1241	Investigation of Different Sparsity Transforms for the PICCS Algorithm in Small-Animal Respiratory Gated CT. PLoS ONE, 2015, 10, e0120140.	1.1	8
1242	An Efficient Augmented Lagrangian Method for Statistical X-Ray CT Image Reconstruction. PLoS ONE, 2015, 10, e0140579.	1.1	5
1243	Robust moving-blocker scatter correction for cone-beam computed tomography using multiple-view information. PLoS ONE, 2017, 12, e0189620.	1.1	8
1244	Stacked competitive networks for noise reduction in low-dose CT. PLoS ONE, 2017, 12, e0190069.	1.1	22
1245	Improved digital chest tomosynthesis image quality by use of a projection-based dual-energy virtual monochromatic convolutional neural network with super resolution. PLoS ONE, 2020, 15, e0244745.	1.1	6
1246	Study of CT Images Processing with the Implementation of MLEM Algorithm using CUDA on NVIDIA™S GPU Framework. Journal of Nuclear Physics Material Sciences Radiation and Applications, 2020, 7, 165-171.	0.1	1
1247	Efficient CT Image Reconstruction in a GPU Parallel Environment. Tomography, 2020, 6, 44-53.	0.8	4

#	ARTICLE	IF	CITATIONS
1248	An efficient iterative CBCT reconstruction approach using gradient projection sparse reconstruction algorithm. <i>Oncotarget</i> , 2016, 7, 87342-87350.	0.8	9
1249	Improved CT Image Reconstruction Through Partial Fourier Sampling. <i>Scientia Iranica</i> , 2016, 23, 2908-2916.	0.3	2
1250	Deformable registration and region-of-interest image reconstruction in sparse repeat CT scanning. <i>Journal of X-Ray Science and Technology</i> , 2020, 28, 1069-1089.	0.7	5
1251	Some proximal methods for Poisson intensity CBCT and PET. <i>Inverse Problems and Imaging</i> , 2012, 6, 565-598.	0.6	28
1252	Empirical average-case relation between undersampling and sparsity in X-ray CT. <i>Inverse Problems and Imaging</i> , 2015, 9, 431-446.	0.6	15
1253	Error bounds and stability in the $\ell_0$ regularized for CT reconstruction from small projections. <i>Inverse Problems and Imaging</i> , 2016, 10, 829-853.	0.6	24
1254	Wavelet tight frame and prior image-based image reconstruction from limited-angle projection data. <i>Inverse Problems and Imaging</i> , 2017, 11, 917-948.	0.6	15
1255	Image reconstruction for sparse-view CT and interior CT-introduction to compressed sensing and differentiated backprojection. <i>Quantitative Imaging in Medicine and Surgery</i> , 2013, 3, 147-61.	1.1	48
1256	Limited Tomography Reconstruction Via Tight Frame and Simultaneous Sinogram Extrapolation. <i>Journal of Computational Mathematics</i> , 2016, 34, 575-589.	0.2	14
1258	Title is missing!. <i>Journal of Medical and Biological Engineering</i> , 2014, 34, 261.	1.0	5
1259	Image reconstruction algorithm based on inexact alternating direction total-variation minimization. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2013, 62, 198701.	0.2	15
1260	Review of reconstruction algorithms with incomplete projection data of computed tomography. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2014, 63, 058701.	0.2	15
1261	The total variation constrained data divergence minimization model for image reconstruction and its Chambolle-Pock solving algorithm. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2018, 67, 198701.	0.2	2
1262	Total-Variation Iterative Algorithm for Terahertz Transmission Computed Tomography. , 2021, , .		1
1263	Change detection in sparse repeat CT scans with non-rigid deformations. <i>Journal of X-Ray Science and Technology</i> , 2021, 29, 987-1007.	0.7	1
1264	Mutual Information-Based Non-Local Total Variation Denoiser for Low-Dose Cone-Beam Computed Tomography. <i>Frontiers in Oncology</i> , 2021, 11, 751057.	1.3	1
1265	3D image reconstruction of terahertz computed tomography at sparse angles by total variation minimization. <i>Applied Optics</i> , 2022, 61, B1.	0.9	8
1266	CT Image Reconstruction via Nonlocal Low-Rank Regularization and Data-Driven Tight Frame. <i>Symmetry</i> , 2021, 13, 1873.	1.1	2

#	ARTICLE	IF	CITATIONS
1267	Strip-Map SAR Image Formulation Based on the Modified Alternating Split Bregman Method. Remote Sensing, 2021, 13, 4231.	1.8	0
1268	Improving spatial resolution with an edge-enhancement model for low-dose propagation-based X-ray phase-contrast computed tomography. Optics Express, 2021, 29, 37399.	1.7	1
1271	Stop Breast Cancer Now! Imagining Imaging Pathways Toward Search, Destroy, Cure, and Watchful Waiting of Premetastasis Breast Cancer. , 2010, , 167-203.		3
1272	WE-E-201B-01: GPU-Based Fast Cone Beam CT Reconstruction from Undersampled and Noisy Projection Data Via Total Variation. Medical Physics, 2010, 37, 3441-3441.	1.6	2
1274	Compressive Holography. , 2011, , .		26
1276	Sparsity Level Constrained Compressed Sensing for CT Reconstruction. Informatik Aktuell, 2012, , 141-146.	0.4	0
1278	Respiratory Motion Correction in Cone-Beam CT for Image-Guided Radiotherapy. Biological and Medical Physics Series, 2013, , 319-334.	0.3	0
1280	Super Sparse Projection Reconstruction of Computed Tomography Image Based-on Reweighted Total Variation. Lecture Notes in Electrical Engineering, 2013, , 425-431.	0.3	0
1282	Performance analysis of regularization algorithms used for image reconstruction in computed tomography. Bulletin of the Polish Academy of Sciences: Technical Sciences, 2013, 61, 467-474.	0.8	2
1283	Image reconstruction based on total variation minimization and alternating direction method for Compton scatter tomography. Wuli Xuebao/Acta Physica Sinica, 2014, 63, 018701.	0.2	2
1284	Review of sparse optimization-based computed tomography image reconstruction from few-view projections. Wuli Xuebao/Acta Physica Sinica, 2014, 63, 208702.	0.2	5
1285	SEM-based X-ray tomography of sub-micrometer defects in 3D integration. International Symposium on Microelectronics, 2014, 2014, 000641-000646.	0.3	0
1287	Iterative Cone-Beam CT Reconstruction on GPUs. Series in Medical Physics and Biomedical Engineering, 2015, , 47-62.	0.1	0
1288	Multi-GPU Cone-Beam CT Reconstruction. Series in Medical Physics and Biomedical Engineering, 2015, , 83-98.	0.1	0
1290	Low-dose multiphase abdominal CT reconstruction with phase-induced swap prior. Proceedings of SPIE, 2016, , .	0.8	1
1291	Gradient Flows on a Riemannian Submanifold for Discrete Tomography. Lecture Notes in Computer Science, 2017, , 294-305.	1.0	0
1292	Image reconstruction for PET and SPECT. Imaging in Medical Diagnosis and Therapy, 2017, , 235-257.	0.0	0
1293	Deep learning for low-dose CT. , 2017, , .		1

#	ARTICLE	IF	CITATIONS
1294	Computertomographie. , 2018, , 153-203.		1
1295	Sinogram synthesis using convolutional-neural-network for sparsely view-sampled CT. , 2018, , .		3
1296	A deeper convolutional neural network for denoising low-dose CT images. , 2018, , .		0
1297	Motion artifacts reduction in 4DCBCT based on motion-compensated robust principal component analysis. , 2018, , .		0
1298	Optimization-based design for artifact reduction in advanced diagnostic CT. , 2018, , .		0
1299	Algorithmic scatter correction based on physical model and statistical iterative reconstruction for dual energy cone beam CT. , 2018, , .		0
1300	LdCT-Net: low-dose CT image reconstruction strategy driven by a deep dual network. , 2018, , .		0
1301	Fast low-dose compressed-sensing (CS) image reconstruction in four-dimensional digital tomosynthesis using on-board imager (OBI). , 2018, , .		1
1302	Calibration of Artis-Zeego C-arm cone beam computerized tomography angiography imaging system. Optical Engineering, 2018, 57, 1.	0.5	2
1303	Propagation-based phase-contrast tomography of a guinea pig inner ear with cochlear implant using a model-based iterative reconstruction algorithm. Biomedical Optics Express, 2018, 9, 5330.	1.5	2
1304	3D X-Ray Tomography: Basics and Latest Developments. , 2019, , 1167-1180.		0
1305	Tomographic reconstruction of stack plume based on sparse optimization. Wuli Xuebao/Acta Physica Sinica, 2019, 68, 164205.	0.2	0
1306	Non-reference Evaluation of Hyperspectral X-CT Images Based on CdTe Photon Counting Detector. , 2019, , .		1
1307	Tilting fan beam back-projection filtration algorithm for local reconstruction in helical cone-beam computed tomography. Wuli Xuebao/Acta Physica Sinica, 2019, 68, 088701.	0.2	1
1308	Generative Low-Dose CT Image Denoising. Advances in Computer Vision and Pattern Recognition, 2019, , 277-297.	0.9	2
1309	Strip-based parallel beam projection model for under-sampling CT system. , 2019, , .		0
1310	Low-dose X-ray Computed Tomography Image Reconstruction Using Edge Sparsity Regularization. , 2019, , .		0
1311	R <sup>2</sup> -Net: Recurrent and Recursive Network for Sparse-View CT Artifacts Removal. Lecture Notes in Computer Science, 2019, , 319-327.	1.0	7

#	ARTICLE	IF	CITATIONS
1312	Computational-efficient cascaded neural network for CT image reconstruction. , 2019, , .		0
1313	Sinogram interpolation for sparse-view micro-CT with deep learning neural network. , 2019, , .		6
1314	Adaptively-weighted total-variation (AwTV) in a prototype 4D digital tomosynthesis system for fast and low-dose target localization. , 2019, , .		0
1315	Image reconstruction from fully-truncated and sparsely-sampled line integrals using iCT-Net. , 2019, , .		1
1316	Edge-masked CT image reconstruction from limited data. , 2019, , .		0
1317	Fast ordered subsets Chambolle-Pock algorithm for CT reconstruction. , 2019, , .		0
1318	Image reconstruction in CT from limited-angle projections. , 2019, , .		0
1320	Smoothing L0- and L1-Norm regularizers and their relations to non-local means for CT reconstruction. , 2019, , .		0
1321	A Deep Learning Based Method for Low Dose Lung CT Noise Reduction. Lecture Notes in Electrical Engineering, 2020, , 649-657.	0.3	1
1322	Sparse-view tomography via displacement function interpolation. Visual Computing for Industry, Biomedicine, and Art, 2019, 2, 13.	2.2	2
1323	Extension of emission expectation maximization lookalike algorithms to Bayesian algorithms. Visual Computing for Industry, Biomedicine, and Art, 2019, 2, 14.	2.2	2
1324	Sparse-View CT Reconstruction Based on Improved Re-Sidual Network. Mechanisms and Machine Science, 2020, , 1069-1080.	0.3	0
1325	Convergence and stability analysis of the half thresholding based few-view CT reconstruction. Journal of Inverse and Ill-Posed Problems, 2020, 28, 829-847.	0.5	0
1326	Dual-energy approach to reduce cone-beam artefacts in a circular orbit cone-beam CT system. Electronics Letters, 2020, 56, 648-650.	0.5	0
1327	Quantitative phase imaging of single particles from a cryoEM micrograph. Optics Communications, 2021, , 127588.	1.0	1
1328	A sequential regularization based image reconstruction method for limited-angle spectral CT. Physics in Medicine and Biology, 2020, 65, 235038.	1.6	6
1329	Iterative reconstruction algorithm comparison using Poisson noise distributed sinogram data in passive gamma emission tomography. Journal of Nuclear Science and Technology, 2021, 58, 659-666.	0.7	4
1330	Application of deep learning and compressed sensing for reconstruction of images. Journal of Physics: Conference Series, 2020, 1706, 012068.	0.3	5



#	ARTICLE	IF	CITATIONS
1331	A Regularized Limited-Angle CT Reconstruction Model Based on Sparse Multi-level Information Groups of the Images. Communications in Computer and Information Science, 2021, , 267-282.	0.4	0
1332	RGB-Based Compressed Medical Imaging Using Sparsity Averaging Reweighted Analysis for Wireless Capsule Endoscopy Images. IEEE Access, 2021, 9, 147091-147101.	2.6	5
1333	MICROWAVE IMAGING SOLUTIONS FOR MEDICAL IMAGING USING RE-WEIGHTED BASIC PURSUIT ALGORITHM. Progress in Electromagnetics Research M, 2020, 97, 13-24.	0.5	1
1334	An End-to-End Deep Network for Reconstructing CT Images Directly From Sparse Sinograms. IEEE Transactions on Computational Imaging, 2020, 6, 1548-1560.	2.6	16
1335	Learning Image From Projection: A Full-Automatic Reconstruction (FAR) Net for Computed Tomography. IEEE Access, 2020, 8, 219400-219414.	2.6	7
1337	Global Transport for Fluid Reconstruction with Learned Self-Supervision. , 2021, , .		7
1338	Sparse-view, short-scan, dedicated cone-beam breast computed tomography: image quality assessment. Biomedical Physics and Engineering Express, 2020, 6, 065015.	0.6	5
1339	Single-snapshot X-ray imaging for nonlinear compressive tomosynthesis. Optics Express, 2020, 28, 29390.	1.7	2
1340	Moreau-envelope-enhanced nonlocal shearlet transform and total variation for sparse-view CT reconstruction. Measurement Science and Technology, 2021, 32, 015405.	1.4	2
1341	Multi-Dimensional Spatial Attention Residual U-Net (Msaru-Net) for Low-Dose Lung Ct Image Restoration. , 2020, , .		1
1348	Simulation on system configuration for stationary head CT using linear carbon nanotube x-ray source arrays. Journal of Medical Imaging, 2021, 8, 052114.	0.8	1
1349	Unpaired Low-Dose CT Denoising using Conditional GAN with Structural Loss. , 2021, , .		2
1350	Simulation on system configuration for stationary head CT using linear carbon nanotube x-ray source arrays. Journal of Medical Imaging, 2021, 8, 052114.	0.8	5
1351	An Accelerated Smoothing Gradient Method for Nonconvex Nonsmooth Minimization in Image Processing. Journal of Scientific Computing, 2022, 90, 1.	1.1	7
1352	Conditional Invertible Neural Networks for Medical Imaging. Journal of Imaging, 2021, 7, 243.	1.7	25
1353	Low-dose CT reconstruction with Noise2Noise network and testing-time fine-tuning. Medical Physics, 2021, 48, 7657-7672.	1.6	21
1354	Sparse-View Neutron CT Reconstruction Using a Modified Weighted Total Difference Minimization Method. Applied Sciences (Switzerland), 2021, 11, 10942.	1.3	1
1355	A Continuity Flow Based Tomographic Reconstruction Algorithm for 4D Multi-Beam High Temporal-Low Angular Sampling. Journal of Imaging, 2021, 7, 246.	1.7	2

#	ARTICLE	IF	CITATIONS
1356	Structural Sparsity in Multiple Measurements. IEEE Transactions on Signal Processing, 2022, 70, 280-291.	3.2	6
1357	Material-separating regularizer for multi-energy x-ray tomography. Inverse Problems, 2022, 38, 025013.	1.0	6
1358	Multi source translation based projection completion for interior region of interest tomography with CBCT. Optics Express, 2022, 30, 2963.	1.7	2
1359	Livermore tomography tools: Accurate, fast, and flexible software for tomographic science. NDT and E International, 2022, 126, 102595.	1.7	22
1360	Fourier method for 3-dimensional data fusion of X-ray Computed Tomography and ultrasound. NDT and E International, 2022, 127, 102600.	1.7	2
1361	Supervised and Unsupervised Deep Learning Methods for Low-Dose CT Image Denoising. , 2020, , .		0
1362	Cascade ResUnet with Noise Power Spectrum Loss for Low Dose CT Imaging. , 2020, , .		2
1363	Extreme Sparse X-ray Computed Laminography Via Convolutional Neural Networks. , 2020, , .		0
1364	Joint Regularized-based Image Reconstruction by Combining Super-Resolution Sinogram for Computed Tomography Imaging. , 2020, , .		0
1365	Deep Learning-based Low-dose Tomography Reconstruction with Hybrid-dose Measurements. , 2020, , .		2
1366	Deep Residual Convolutional Sparse Coding Networks for Low Dose CT Imaging. , 2021, , .		1
1367	Customized Total Variation Algorithm for Metal Artifact Reduction in Computed Tomography. , 2021, 2021, 3479-3482.		1
1368	Low-dose cone-beam computed tomography reconstruction through a fast three-dimensional compressed sensing method based on the three-dimensional pseudo-polar fourier transform. Journal of Medical Signals and Sensors, 2022, 12, 8.	0.5	1
1369	Multi-channel convolutional analysis operator learning for dual-energy CT reconstruction. Physics in Medicine and Biology, 2022, 67, 065001.	1.6	2
1370	Image reconstruction from data over two orthogonal arcs of limited angular ranges. Medical Physics, 2022, 49, 1468-1480.	1.6	4
1371	Prior information-based high-resolution tomography image reconstruction from a single digitally reconstructed radiograph. Physics in Medicine and Biology, 2022, 67, 085004.	1.6	0
1372	Performance evaluation of dual-energy CT and differential phase contrast CT in quantitative imaging applications. Medical Physics, 2022, 49, 1123-1138.	1.6	0
1373	Exterior computed tomography image reconstruction based on anisotropic relative total variation in polar coordinates. Journal of X-Ray Science and Technology, 2022, , 1-22.	0.7	1

#	ARTICLE	IF	CITATIONS
1374	Momentum computed tomography of low-energy charged particles produced in collisional reactions. Nuclear Instruments & Methods in Physics Research B, 2022, 511, 123-142.	0.6	0
1375	Image quality of dual-energy cone-beam CT with total nuclear variation regularization. Biomedical Physics and Engineering Express, 2022, 8, 025012.	0.6	2
1376	Fluoroscopic 3D Image Generation from Patient-Specific PCA Motion Models Derived from 4D-CBCT Patient Datasets: A Feasibility Study. Journal of Imaging, 2022, 8, 17.	1.7	4
1377	Enhancement of 4-D Cone-Beam Computed Tomography (4D-CBCT) Using a Dual-Encoder Convolutional Neural Network (DeCNN). IEEE Transactions on Radiation and Plasma Medical Sciences, 2022, 6, 222-230.	2.7	3
1378	A bilateral optimization iteration CT reconstruction method for incomplete projections. Optics and Lasers in Engineering, 2022, 152, 106867.	2.0	2
1379	Iterative Reconstruction for Low-Dose CT Using Deep Gradient Priors of Generative Model. IEEE Transactions on Radiation and Plasma Medical Sciences, 2022, 6, 741-754.	2.7	3
1380	Deep Cascade Residual Networks (DCRNs): Optimizing an Encoder-Decoder Convolutional Neural Network for Low-Dose CT Imaging. IEEE Transactions on Radiation and Plasma Medical Sciences, 2022, 6, 829-840.	2.7	17
1381	Solving Inverse Problems With Deep Neural Networks – Robustness Included?. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2023, 45, 1119-1134.	9.7	33
1382	Imaging and reconstruction of high-energy proton beam spot before target based on secondary gamma rays. Review of Scientific Instruments, 2022, 93, 023703.	0.6	1
1384	FONT-SIR: Fourth-Order Nonlocal Tensor Decomposition Model for Spectral CT Image Reconstruction. IEEE Transactions on Medical Imaging, 2022, 41, 2144-2156.	5.4	6
1385	Evaluation of a Generative Adversarial Network to Improve Image Quality and Reduce Radiation-Dose during Digital Breast Tomosynthesis. Diagnostics, 2022, 12, 495.	1.3	4
1386	A Limited-View CT Reconstruction Framework Based on Hybrid Domains and Spatial Correlation. Sensors, 2022, 22, 1446.	2.1	0
1387	ADMM-SVNet: An ADMM-Based Sparse-View CT Reconstruction Network. Photonics, 2022, 9, 186.	0.9	2
1388	Texture-aware dual domain mapping model for low-dose CT reconstruction. Medical Physics, 2022, 49, 3860-3873.	1.6	4
1389	A generalized simultaneous algebraic reconstruction technique (GSART) for dual-energy X-ray computed tomography. Journal of X-Ray Science and Technology, 2022, , 1-18.	0.7	1
1390	Total variation combining nonlocal means filtration for image reconstruction in X-ray computed tomography. Journal of X-Ray Science and Technology, 2022, , 1-18.	0.7	3
1391	Max-product type multivariate sampling operators and applications to image processing. Chaos, Solitons and Fractals, 2022, 157, 111914.	2.5	6
1392	A beam-filter-based low-dose imaging for multi-detector-row helical CT. , 2022, , .		0

#	ARTICLE	IF	CITATIONS
1393	A feasibility study of computer-aided diagnosis with DECT Bayesian reconstruction for polyp classification. , 2022, , .		2
1394	Optimization of a customized simultaneous algebraic reconstruction technique algorithm for phase-contrast breast computed tomography. Physics in Medicine and Biology, 2022, 67, 095012.	1.6	5
1395	Volumetric imaging and reconstruction with stationary head CT system using carbon nanotube x-ray source arrays. , 2022, , .		0
1396	Cone-beam breast CT using an offset detector: effect of detector offset and image reconstruction algorithm. Physics in Medicine and Biology, 2022, 67, 085008.	1.6	4
1397	An unsupervised reconstruction method for low-dose CT using deep generative regularization prior. Biomedical Signal Processing and Control, 2022, 75, 103598.	3.5	7
1398	A model-based deep network for limited-angle computed tomography image reconstruction. Displays, 2022, 73, 102166.	2.0	3
1399	Iron-oxide-identifying imaging method based on a wide-energy neutron beam for corrosion inspection in reinforced concrete structures. Review of Scientific Instruments, 2021, 92, 123703.	0.6	0
1400	Sparse-view cone beam CT reconstruction using dual CNNs in projection domain and image domain. Neurocomputing, 2022, 493, 536-547.	3.5	11
1401	Modern approaches to the elimination of artifacts of cone-beam computed tomography of the maxillofacial region. Medical Alphabet, 2021, 1, 14-20.	0.0	0
1402	A selective kernel-based cycle-consistent generative adversarial network for unpaired low-dose CT denoising. Precision Clinical Medicine, 0, , .	1.3	7
1409	Low-Dose Computed Tomography Reconstruction without Learning Data: Performance Improvement by Exploiting Joint Correlation Between Adjacent Slices. , 2022, , .		0
1410	Objective assessment of measurement error in significant cone-beam computed tomography in dental practice. Medical Alphabet, 2022, , 65-68.	0.0	1
1411	Sparse-View CT Reconstruction Based on a Hybrid Domain Model with Multi-Level Wavelet Transform. Sensors, 2022, 22, 3228.	2.1	5
1412	Sparse Angle CBCT Reconstruction Based on Guided Image Filtering. Frontiers in Oncology, 2022, 12, 832037.	1.3	3
1413	Three-dimensional phase and intensity reconstruction from coherent modulation imaging measurements. Optics Express, 2022, 30, 20415.	1.7	1
1414	Frequency Domain Filtering Based Compressed Sensing Applied on Sparse-angle CT Image Reconstruction. , 2022, , .		0
1415	Applications of neutron computed tomography to thermal-hydraulics research. Progress in Nuclear Energy, 2022, 149, 104262.	1.3	1
1416	NeRP: Implicit Neural Representation Learning With Prior Embedding for Sparsely Sampled Image Reconstruction. IEEE Transactions on Neural Networks and Learning Systems, 2024, 35, 770-782.	7.2	36

#	ARTICLE	IF	CITATIONS
1417	Preliminary denoising by 3D U-Net in image domain for low dose CT images. , 2022, , .		1
1418	Edge-Promoting Adaptive Bayesian Experimental Design for X-ray Imaging. SIAM Journal of Scientific Computing, 2022, 44, B506-B530.	1.3	3
1419	On multiple scattering in Compton scattering tomography and its impact on fan-beam CT. Inverse Problems and Imaging, 2022, .	0.6	1
1420	Fast non-uniform Fourier transform based regularization for sparse-view large-size CT reconstruction. STEM Education, 2022, 2, 121.	0.3	0
1422	Limited-Angle CT Reconstruction with Generative Adversarial Network Sinogram Inpainting and Unsupervised Artifact Removal. Applied Sciences (Switzerland), 2022, 12, 6268.	1.3	5
1423	Fast four-dimensional cone-beam computed tomography reconstruction using deformable convolutional networks. Medical Physics, 2022, 49, 6461-6476.	1.6	4
1424	CCN-CL: A content-noise complementary network with contrastive learning for low-dose computed tomography denoising. Computers in Biology and Medicine, 2022, 147, 105759.	3.9	13
1425	Method of Merging the Divergence Sparsity and Simplified Acousto-Optic Interferometry to Sense an Acoustic Wave Field. IEEE Sensors Journal, 2022, 22, 15022-15032.	2.4	1
1426	Smoothed-NUV Priors for Imaging. IEEE Transactions on Image Processing, 2022, 31, 4663-4678.	6.0	0
1427	Investigation on accelerated ordered subsets image reconstruction techniques with superiorization methodology. European Physical Journal Plus, 2022, 137, .	1.2	0
1428	Self-supervised inter- and intra-slice correlation learning for low-dose CT image restoration without ground truth. Expert Systems With Applications, 2022, 209, 118072.	4.4	6
1429	DR-only Carbon-ion radiotherapy treatment planning via deep learning. Physica Medica, 2022, 100, 120-128.	0.4	1
1430	Reconstruction of tomographic gamma scanning transmission image from sparse projections based on convolutional neural networks. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2022, 1039, 167110.	0.7	3
1431	Dual-domain sparse-view CT reconstruction with Transformers. Physica Medica, 2022, 101, 1-7.	0.4	8
1432	NeAT. ACM Transactions on Graphics, 2022, 41, 1-13.	4.9	7
1433	Does ITZ Influence Moisture Transport in Concrete?. Transport in Porous Media, 2022, 144, 623-639.	1.2	3
1434	A streak artifact reduction algorithm in sparse-view CT using a self-supervised neural representation. Medical Physics, 2022, 49, 7497-7515.	1.6	4
1435	Learning low-dose CT degradation from unpaired data with flow-based model. Medical Physics, 2022, 49, 7516-7530.	1.6	5

#	ARTICLE	IF	CITATIONS
1436	Quality Changes of Image from Total Variation to Nonlinear Sparsifying Transform for Sparse-view CT Reconstruction. , 2022, , .		0
1437	RAD-UNet: a Residual, Attention-Based, Dense UNet for CT Sparse Reconstruction. Journal of Digital Imaging, 2022, 35, 1748-1758.	1.6	3
1438	A dataset-free deep learning method for low-dose CT image reconstruction. Inverse Problems, 0, , .	1.0	1
1439	Unpaired low-dose CT denoising via an improved cycle-consistent adversarial network with attention ensemble. Visual Computer, 2023, 39, 4423-4444.	2.5	2
1440	Method for restoration of X-ray absorption fine structure in sparse spectroscopic ptychography. Journal of Applied Crystallography, 2022, 55, 929-943.	1.9	3
1441	A comprehensive survey on deep learning techniques in CT image quality improvement. Medical and Biological Engineering and Computing, 2022, 60, 2757-2770.	1.6	6
1442	Sparse angle CT reconstruction based on group sparse representation. Journal of X-Ray Science and Technology, 2022, , 1-13.	0.7	1
1443	Segmental limited-angle CT reconstruction based on image structural prior. Journal of X-Ray Science and Technology, 2022, 30, 1127-1154.	0.7	1
1444	Domain-adaptive denoising network for low-dose CT via noise estimation and transfer learning. Medical Physics, 2023, 50, 74-88.	1.6	10
1445	Real-time 3D analysis during electron tomography using tomviz. Nature Communications, 2022, 13, .	5.8	14
1446	DFSNE-Net: Deviant feature sensitive noise estimate network for low-dose CT denoising. Computers in Biology and Medicine, 2022, 149, 106061.	3.9	7
1447	Iterative reconstruction of low-dose CT based on differential sparse. Biomedical Signal Processing and Control, 2023, 79, 104204.	3.5	105
1448	A Transformer-Based Iterative Reconstruction Model for Sparse-View CT Reconstruction. Lecture Notes in Computer Science, 2022, , 790-800.	1.0	2
1449	NAF: Neural Attenuation Fields for Sparse-View CBCT Reconstruction. Lecture Notes in Computer Science, 2022, , 442-452.	1.0	9
1450	An Adversarial Learning Based Approach for 2D Unknown View Tomography. IEEE Transactions on Computational Imaging, 2022, 8, 705-720.	2.6	3
1451	DuDoTrans: Dual-Domain Transformer for Sparse-View CT Reconstruction. Lecture Notes in Computer Science, 2022, , 84-94.	1.0	8
1452	Iterative CT reconstruction based on ADMM using shearlet sparse regularization. Mathematical Biosciences and Engineering, 2022, 19, 11840-11853.	1.0	2
1453	DDPTransformer: Dual-Domain With Parallel Transformer Network for Sparse View CT Image Reconstruction. IEEE Transactions on Computational Imaging, 2022, 8, 1101-1116.	2.6	8

#	ARTICLE	IF	CITATIONS
1454	A Methodology to Train a Convolutional Neural Network-Based Low-Dose CT Denoiser With an Accurate Image Domain Noise Insertion Technique. IEEE Access, 2022, 10, 86395-86407.	2.6	4
1455	ERA-WGAT: Edge-enhanced residual autoencoder with a window-based graph attention convolutional network for low-dose CT denoising. Biomedical Optics Express, 2022, 13, 5775.	1.5	2
1456	Alternating direction method of multipliers for nonconvex log total variation image restoration. Applied Mathematical Modelling, 2023, 114, 338-359.	2.2	5
1457	A dual-domain neural network based on sinogram synthesis for sparse-view CT reconstruction. Computer Methods and Programs in Biomedicine, 2022, 226, 107168.	2.6	3
1458	Extension of the open-source TIGRE toolbox for proton imaging. Zeitschrift Fur Medizinische Physik, 2023, 33, 552-566.	0.6	1
1459	SPARSE-VIEW AND LIMITED-ANGLE CT RECONSTRUCTION WITH UNTRAINED NETWORK AND DEEP IMAGE PRIOR.. Computer Methods and Programs in Biomedicine, 2022, , 107167.	2.6	2
1460	AI-Augmented Images for X-Ray Guiding Radiation Therapy Delivery. Seminars in Radiation Oncology, 2022, 32, 365-376.	1.0	1
1461	Projection domain processing for low-dose CT reconstruction based on subspace identification. Journal of X-Ray Science and Technology, 2022, , 1-22.	0.7	0
1462	Standardization Techniques for Single-Shot Digital Holographic Microscopy. , 0, , .		0
1463	Dual domain closed-loop learning for sparse-view CT reconstruction. , 2022, , .		0
1464	A visible edge aware directional total variation model for limited-angle reconstruction. , 2022, , .		0
1465	Structure-guided computed tomography reconstruction from limited-angle projections. Journal of X-Ray Science and Technology, 2022, , 1-23.	0.7	0
1466	Exploiting voxel-sparsity for bone imaging with sparse-view cone-beam computed tomography. , 2022, , .		0
1467	Sparsier2Sparse: weakly supervised learning for streak artifact reduction with unpaired sparse-view CT data. , 2022, , .		2
1468	An attempt of directly filtering the sparse-view CT images by BM3D. , 2022, , .		0
1469	Triple-source saddle-curve cone-beam photon counting CT image reconstruction: A simulation study. Zeitschrift Fur Medizinische Physik, 2022, , .	0.6	0
1470	Segmentation-guided Denoising Network for Low-dose CT Imaging. Computer Methods and Programs in Biomedicine, 2022, 227, 107199.	2.6	7
1471	Cone-beam computed tomography based on truncated adaptive-weight total variation. NDT and E International, 2023, 133, 102755.	1.7	3

#	ARTICLE	IF	CITATIONS
1472	Craniofacial Volumetric Image Estimation From a Lateral Cephalogram Using Cross-Dimensional Discrete Embedding Mapping. IEEE Transactions on Computational Imaging, 2022, 8, 972-985.	2.6	0
1473	LRIP-Net: Low-Resolution Image Prior-Based Network for Limited-Angle CT Reconstruction. IEEE Transactions on Radiation and Plasma Medical Sciences, 2023, 7, 163-174.	2.7	1
1474	LEARN++: Recurrent Dual-Domain Reconstruction Network for Compressed Sensing CT. IEEE Transactions on Radiation and Plasma Medical Sciences, 2023, 7, 132-142.	2.7	13
1475	X-ray CT image denoising with MINF: A modularized iterative network framework for data from multiple dose levels. Computers in Biology and Medicine, 2023, 152, 106419.	3.9	3
1476	MM-Net: Multiframe and Multimask-Based Unsupervised Deep Denoising for Low-Dose Computed Tomography. IEEE Transactions on Radiation and Plasma Medical Sciences, 2023, 7, 296-306.	2.7	2
1477	DREAM-Net: Deep Residual Error Iterative Minimization Network for Sparse-View CT Reconstruction. IEEE Journal of Biomedical and Health Informatics, 2023, 27, 480-491.	3.9	5
1478	A new limited-angle CT reconstruction algorithm based on the local anisotropic total variation restoration of continuity. Journal of Instrumentation, 2022, 17, P12018.	0.5	2
1479	Least squares based geometric error measurement for sparse view CT: a 2D simulation study. Measurement Science and Technology, 2023, 34, 035019.	1.4	0
1480	Deep learning-based motion compensation for four-dimensional cone-beam computed tomography (4D-CBCT) reconstruction. Medical Physics, 2023, 50, 808-820.	1.6	4
1481	Learning CT projection denoising from adjacent views. Medical Physics, 0, , .	1.6	0
1482	A novel method for multichannel discharge image diagnosing in gas switch based on multi-axis tomography techniques. Plasma Science and Technology, 0, , .	0.7	0
1483	Image Reconstruction from Projections. , 2023, , 271-279.		0
1484	Optimization Approach to Image Reconstruction. , 2023, , 71-93.		0
1485	A 3D Magnetospheric CT Reconstruction Method Based on 3D GAN and Supplementary Limited-Angle 2D Soft X-Ray Images. Journal of Geophysical Research: Space Physics, 2023, 128, .	0.8	1
1486	Low-dose spectral reconstruction with global, local, and nonlocal priors based on subspace decomposition. Quantitative Imaging in Medicine and Surgery, 2023, 13, 889-911.	1.1	1
1487	A fast inertial primal-dual algorithm to composite optimization models with application to image restoration problems. Journal of Computational and Applied Mathematics, 2023, 425, 115043.	1.1	0
1488	Reconstructing a 3D Medical Image from a Few 2D Projections Using a B-Spline-Based Deformable Transformation. Mathematics, 2023, 11, 69.	1.1	0
1489	Deep Iterative Reconstruction Network Based on Residual Constraint for Low-Dose CT Imaging. , 2022, , .		0



#	ARTICLE	IF	CITATIONS
1490	Multislice input for 2D and 3D residual convolutional neural network noise reduction in CT. Journal of Medical Imaging, 2023, 10, .	0.8	1
1491	3D reconstruction of unstained weakly scattering cells from a single defocused hologram. Applied Optics, 0, , .	0.9	0
1492	WNet: A Data-Driven Dual-Domain Denoising Model for Sparse-View Computed Tomography With a Trainable Reconstruction Layer. IEEE Transactions on Computational Imaging, 2023, 9, 120-132.	2.6	8
1493	One-bit compressed sensing via total variation minimization method. Signal Processing, 2023, 207, 108939.	2.1	0
1494	Combining physics-based models with deep learning image synthesis and uncertainty in intraoperative cone-beam CT of the brain. Medical Physics, 2023, 50, 2607-2624.	1.6	3
1495	An attention-based deep convolutional neural network for ultra-sparse-view CT reconstruction. Computers in Biology and Medicine, 2023, 161, 106888.	3.9	4
1496	4D-image reconstruction directly from limited-angular-range data in continuous-wave electron paramagnetic resonance imaging. Journal of Magnetic Resonance, 2023, 350, 107432.	1.2	5
1497	A cascading l0 regularization reconstruction method in nonsubsamped contourlet domain for limited-angle CT. Applied Mathematics and Computation, 2023, 451, 128013.	1.4	0
1498	Deep residual constrained reconstruction via learned convolutional sparse coding for low-dose CT imaging. Biomedical Signal Processing and Control, 2023, 85, 104868.	3.5	2
1499	Sparse-view CT reconstruction method for in-situ non-destructive testing of reinforced concrete. Nondestructive Testing and Evaluation, 2023, 38, 827-844.	1.1	2
1500	U-Net Transfer Learning for Image Restoration on Sparse CT Reconstruction in Pre-Clinical Research. , 2022, , .		0
1501	A total variation prior unrolling approach for computed tomography reconstruction. Medical Physics, 0, , .	1.6	2
1502	3-D Computed Laminography Based on Prior Images and Total Variation. IEEE Transactions on Nuclear Science, 2023, 70, 189-199.	1.2	2
1503	Examining the micromechanics of cementitious composites using In-Situ X-ray measurements. International Journal of Solids and Structures, 2023, 267, 112162.	1.3	3
1504	Beyond Local Processing: Adapting CNNs for ACT Reconstruction. Lecture Notes in Computer Science, 2023, , 513-526.	1.0	0
1505	Multi-scale dilated dense reconstruction network for limited-angle computed tomography. Physics in Medicine and Biology, 2023, 68, 075013.	1.6	1
1506	A feasibility study of enhanced prompt gamma imaging for range verification in proton therapy using deep learning. Physics in Medicine and Biology, 2023, 68, 075001.	1.6	1
1507	CTformer: convolution-free Token2Token dilated vision transformer for low-dose CT denoising. Physics in Medicine and Biology, 2023, 68, 065012.	1.6	30

#	ARTICLE	IF	CITATIONS
1509	MDST: multi-domain sparse-view CT reconstruction based on convolution and swin transformer. Physics in Medicine and Biology, 2023, 68, 095019.	1.6	4
1510	Adaptive-weighted high order TV algorithm for sparse-view CT reconstruction. Medical Physics, 2023, 50, 5568-5584.	1.6	3
1511	Source-detector trajectory optimization for CBCT metal artifact reduction based on PICCS reconstruction. Zeitschrift Fur Medizinische Physik, 2023, , .	0.6	1
1512	Sparse-View Cone-Beam CT Reconstruction by Bar-by-Bar Neural FDK Algorithm. Nondestructive Testing and Evaluation, 0, , 1-23.	1.1	4
1513	Preliminary study of integrated C-arm CT/SPECT imaging system for online adaptive 3D brachytherapy using Monte Carlo simulation. Journal of Instrumentation, 2023, 18, C04005.	0.5	0
1514	Dual spectral limited-angle CT imaging regularized by edge-preserving diffusion and smoothing. Journal of X-Ray Science and Technology, 2023, 31, 573-592.	0.7	1
1515	A tabletop X-ray tomography instrument for nanometer-scale imaging: reconstructions. Microsystems and Nanoengineering, 2023, 9, .	3.4	1
1516	G��LEND��R��LM��z GRADYAN M��N��M��ZASYONU KULLANARAK MED��KAL G��R��NT��LERDE G��R��LT�� ARINDIRMA. Uluda� University Journal of the Faculty of Engineering, 0, , 163-176.	0.2	0
1517	Single-shot extended field of view imaging system by a point spread function engineering. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 0, , .	0.8	0
1518	Self-supervised denoising of projection data for low-dose cone-beam CT. Medical Physics, 2023, 50, 6319-6333.	1.6	2
1519	A thresholding based iterative reconstruction method for limited-angle tomography data. , 2023, 2, 100008.		1
1520	A self-supervised guided knowledge distillation framework for unpaired low-dose CT image denoising. Computerized Medical Imaging and Graphics, 2023, 107, 102237.	3.5	3
1552	From Linear System of Equations to Artificial Intelligence The Evolution Journey of Computer Tomographic Image Reconstruction Algorithms. Indian Statistical Institute Series, 2023, , 95-115.	0.1	0
1554	Solving 3D Inverse Problems Using Pre-Trained 2D Diffusion Models. , 2023, , .		10
1569	Reconstruction of Images with Finite Rate of Innovation from Noisy Tomographic Projections. , 2023, , .		0
1577	Multi-modal, multi-scale, neutron imaging for materials science and the need for sparse tomography. , 2023, , .		0
1580	Active CT Reconstruction with a Learned Sampling Policy. , 2023, , .		0
1583	Image Reconstruction Using Deep Image Prior in Projection Domain for Limited-Angle Problem. , 2023, , .		0

#	ARTICLE	IF	CITATIONS
1590	Multi-domain Integrative Structure-enhanced and Sparse-coding Network for Sparse View CT Reconstruction. , 2023, , .		0
1593	Nonlinear Filter Combined Regularization of Compressed Sensing for CT Image Reconstruction. Signals and Communication Technology, 2024, , 35-49.	0.4	0
1594	Preliminary Study of Image Reconstruction from Sparse-View Data in Phase-Contrast CT. , 2022, , .		0