Xiaochuan Pan

List of Publications by Year in descending order

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223 papers	6,006 citations	136950 32 h-index	74163 75 g-index
224 all docs	224 docs citations	224 times ranked	2886 citing authors

#	Article	IF	Citations
1	Image reconstruction in circular cone-beam computed tomography by constrained, total-variation minimization. Physics in Medicine and Biology, 2008, 53, 4777-4807.	3.0	1,612
2	Why do commercial CT scanners still employ traditional, filtered back-projection for image reconstruction?. Inverse Problems, 2009, 25, 123009.	2.0	417
3	Exact image reconstruction on PI-lines from minimum data in helical cone-beam CT. Physics in Medicine and Biology, 2004, 49, 941-959.	3.0	316
4	Evaluation of sparse-view reconstruction from flat-panel-detector cone-beam CT. Physics in Medicine and Biology, 2010, 55, 6575-6599.	3.0	314
5	Convex optimization problem prototyping for image reconstruction in computed tomography with the Chambolleâ€“Pock algorithm. Physics in Medicine and Biology, 2012, 57, 3065-3091.	3.0	273
6	Enhanced imaging of microcalcifications in digital breast tomosynthesis through improved imageâ€reconstruction algorithms. Medical Physics, 2009, 36, 4920-4932.	3.0	157
7	Image reconstruction in regions-of-interest from truncated projections in a reduced fan-beam scan. Physics in Medicine and Biology, 2005, 50, 13-27.	3.0	136
8	Algorithm-Enabled Low-Dose Micro-CT Imaging. IEEE Transactions on Medical Imaging, 2011, 30, 606-620.	8.9	123
9	Image reconstruction on PI-lines by use of filtered backprojection in helical cone-beam CT. Physics in Medicine and Biology, 2004, 49, 2717-2731.	3.0	118
10	An algorithm for constrained one-step inversion of spectral CT data. Physics in Medicine and Biology, 2016, 61, 3784-3818.	3.0	118
11	Quantifying Admissible Undersampling for Sparsity-Exploiting Iterative Image Reconstruction in X-Ray CT. IEEE Transactions on Medical Imaging, 2013, 32, 460-473.	8.9	117
12	Optimization-based reconstruction of sparse images from few-view projections. Physics in Medicine and Biology, 2012, 57, 5245-5273.	3.0	98
13	Region of interest reconstruction from truncated data in circular cone-beam CT. IEEE Transactions on Medical Imaging, 2006, 25, 869-881.	8.9	89
14	A constrained, total-variation minimization algorithm for low-intensity x-ray CT. Medical Physics, 2011, 38, S117-S125.	3.0	87
15	An extended data function and its generalized backprojection for image reconstruction in helical cone-beam CT. Physics in Medicine and Biology, 2004, 49, N383-N387.	3.0	77
16	Theory and algorithms for image reconstruction on chords and within regions of interest. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2005, 22, 2372.	1.5	77
17	Image reconstruction in peripheral and central regions-of-interest and data redundancy. Medical Physics, 2005, 32, 673-684.	3.0	76
18	Constrained <formula formulatype="inline"><tex Notation="TeX">${m T}p{m V}$</tex> </formula> 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.	3.7	68

#	Article	IF	Citations
19	Optimization-based image reconstruction from sparse-view data in offset-detector CBCT. Physics in Medicine and Biology, 2013, 58, 205-230.	3.0	67
20	Optimal noise control in and fast reconstruction of fan-beam computed tomography image. Medical Physics, 1999, 26, 689-697.	3.0	63
21	A unified analysis of FBP-based algorithms in helical cone-beam and circular cone- and fan-beam scans. Physics in Medicine and Biology, 2004, 49, 4349-4369.	3.0	55
22	Image reconstruction and scan configurations enabled by optimization-based algorithms in multispectral CT. Physics in Medicine and Biology, 2017, 62, 8763-8793.	3.0	55
23	Image reconstruction with shift-variant filtration and its implication for noise and resolution properties in fan-beam computed tomography. Medical Physics, 2003, 30, 590-600.	3.0	52
24	Anniversary Paper: Development of x-ray computed tomography: The role ofMedical PhysicsandAAPMfrom the 1970s to present. Medical Physics, 2008, 35, 3728-3739.	3.0	52
25	Artifact reduction in short-scan CBCT by use of optimization-based reconstruction. Physics in Medicine and Biology, 2016, 61, 3387-3406.	3.0	48
26	Image reconstruction exploiting object sparsity in boundary-enhanced X-ray phase-contrast tomography. Optics Express, 2010, 18, 10404.	3.4	47
27	Investigation of iterative image reconstruction in low-dose breast CT. Physics in Medicine and Biology, 2014, 59, 2659-2685.	3.0	47
28	A hybrid approach to reducing computed tomography metal artifacts in intracavitary brachytherapy. Brachytherapy, 2005, 4, 18-23.	0.5	46
29	Minimum data image reconstruction algorithms with shift-invariant filtering for helical, cone-beam CT. Physics in Medicine and Biology, 2005, 50, 1643-1657.	3.0	44
30	Directional-TV algorithm for image reconstruction from limited-angular-range data. Medical Image Analysis, 2021, 70, 102030.	11.6	40
31	Investigation of optimization-based reconstruction with an image-total-variation constraint in PET. Physics in Medicine and Biology, 2016, 61, 6055-6084.	3.0	35
32	Regionâ€ofâ€interest image reconstruction with intensity weighting in circular coneâ€beam CT for imageâ€guided radiation therapy. Medical Physics, 2009, 36, 1184-1192.	3.0	34
33	Nonparametric regression sinogram smoothing using a roughness-penalized Poisson likelihood objective function. IEEE Transactions on Medical Imaging, 2000, 19, 773-786.	8.9	33
34	Analysis of iterative region-of-interest image reconstruction for x-ray computed tomography. Journal of Medical Imaging, 2014, 1, 031007.	1.5	32
35	Optimization-based image reconstruction with artifact reduction in C-arm CBCT. Physics in Medicine and Biology, 2016, 61, 7300-7333.	3.0	32
36	Partial volume and aliasing artefacts in helical cone-beam CT. Physics in Medicine and Biology, 2004, 49, 2365-2375.	3.0	28

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37	Image reconstruction from few views by non-convex optimization. , 2007, , .		27
38	Do CNNs Solve the CT Inverse Problem?. IEEE Transactions on Biomedical Engineering, 2021, 68, 1799-1810.	4.2	27
39	Accurate image reconstruction using DOI information and its implications for the development of compact PET systems. IEEE Transactions on Nuclear Science, 2000, 47, 1551-1560.	2.0	24
40	Half-scan fan-beam computed tomography with improved noise and resolution properties. Medical Physics, 2003, 30, 2629-2637.	3.0	24
41	Regionâ€ofâ€interest image reconstruction in circular coneâ€beam microCT. Medical Physics, 2007, 34, 4923-4933.	3.0	24
42	Algorithmâ€enabled partialâ€angularâ€scan configurations for dualâ€energy CT. Medical Physics, 2018, 45, 1857-1870.	3.0	24
43	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.	3.0	23
44	Non-convex primal-dual algorithm for image reconstruction in spectral CT. Computerized Medical Imaging and Graphics, 2021, 87, 101821.	5.8	23
45	Estimating the spectrum in computed tomography via Kullbackâ€“Leibler divergence constrained optimization. Medical Physics, 2019, 46, 81-92.	3.0	22
46	Firstâ€order convex feasibility algorithms for xâ€ray CT. Medical Physics, 2013, 40, 031115.	3.0	21
47	Dual-energy CT imaging with limited-angular-range data. Physics in Medicine and Biology, 2021, 66, 185020.	3.0	21
48	A preliminary investigation of local tomography for megavoltage CT imaging. Medical Physics, 2003, 30, 2969-2980.	3.0	20
49	PI-line-based image reconstruction in helical cone-beam computed tomography with a variable pitch. Medical Physics, 2005, 32, 2639-2648.	3.0	20
50	Recovering a compactly supported function from knowledge of its Hilbert transform on a finite interval. IEEE Signal Processing Letters, 2005, 12, 97-100.	3.6	20
51	Exact reconstruction of volumetric images in reverse helical cone-beam CT. Medical Physics, 2008, 35, 3030-3040.	3.0	20
52	Image reconstruction with a shift-variant filtration in circular cone-beam CT. International Journal of Imaging Systems and Technology, 2004, 14, 213-221.	4.1	18
53	Taskâ€based optimization of dedicated breast CT via Hotelling observer metrics. Medical Physics, 2014, 41, 101917.	3.0	18
54	Noise properties of CT images reconstructed by use of constrained totalâ€variation, dataâ€discrepancy minimization. Medical Physics, 2015, 42, 2690-2698.	3.0	18

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55	Accurate image reconstruction in circular cone-beam computed tomography by total variation minimization: a preliminary investigation. , 2006, , .		17
56	Local cone-beam tomography image reconstruction on chords. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2007, 24, 1569.	1.5	17
57	Effect of the data constraint on few-view, fan-beam CT image reconstruction by TV minimization. , 2006, , .		16
58	Optimization-based image reconstruction from sparsely sampled data in electron paramagnetic resonance imaging. Journal of Magnetic Resonance, 2018, 294, 24-34.	2.1	16
59	Reconstruction of refractive index discontinuities from truncated phase-contrast tomography projections. Applied Physics Letters, 2005, 86, 034102.	3.3	15
60	A BPFâ€FBP tandem algorithm for image reconstruction in reverse helical coneâ€beam CT. Medical Physics, 2010, 37, 32-39.	3.0	15
61	Empirical average-case relation between undersampling and sparsity in X-ray CT. Inverse Problems and Imaging, 2015, 9, 431-446.	1.1	15
62	Image restoration and reconstruction with a Bayesian approach. Medical Physics, 1998, 25, 600-613.	3.0	14
63	Report on the AAPM deepâ€learning sparseâ€view CT grand challenge. Medical Physics, 2022, 49, 4935-4943.	3.0	13
64	X-ray tomography system to investigate granular materials during mechanical loading. Review of Scientific Instruments, 2014, 85, 083708.	1.3	11
65	Optimization-Based Image Reconstruction From Low-Count, List-Mode TOF-PET Data. IEEE Transactions on Biomedical Engineering, 2018, 65, 936-946.	4.2	11
66	Addressing CT metal artifacts using photonâ€counting detectors and oneâ€step spectral CT image reconstruction. Medical Physics, 2022, 49, 3021-3040.	3.0	11
67	Short-scan SPECT imaging with non-uniform attenuation and 3D distance-dependent spatial resolution. Physics in Medicine and Biology, 2002, 47, 2811-2833.	3.0	10
68	Volume Image Reconstruction from a Straight-Line Source Trajectory. , 0, , .		10
69	Noise Properties of Chord-Image Reconstruction. IEEE Transactions on Medical Imaging, 2007, 26, 1328-1344.	8.9	10
70	Investigating simulationâ€based metrics for characterizing linear iterative reconstruction in digital breast tomosynthesis. Medical Physics, 2017, 44, e279-e296.	3.0	10
71	High-Resolution Full-3D Specimen Imaging for Lumpectomy Margin Assessment in Breast Cancer. Annals of Surgical Oncology, 2021, 28, 5513-5524.	1.5	10
72	Noise propagation in diffraction tomography: comparison of conventional algorithms with a new reconstruction algorithm. IEEE Transactions on Nuclear Science, 1998, 45, 2216-2223.	2.0	9

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73	Fast reconstruction with uniform noise properties in halfscan computed tomography. Medical Physics, 2000, 27, 2031-2036.	3.0	9
74	Transmission image reconstruction and redundant information in SPECT with asymmetric fanbeam collimation. IEEE Transactions on Nuclear Science, 2001, 48, 1357-1363.	2.0	9
75	Image reconstruction in regions of interest from truncated Radon transforms of even dimensions. Inverse Problems, 2005, 21, 1169-1177.	2.0	9
76	Region-of-interest reconstruction of motion-contaminated data using a weighted backprojection filtration algorithm. Medical Physics, 2006, 33, 1222-1238.	3.0	9
77	Targeted-ROI imaging in electron paramagnetic resonance imaging. Journal of Magnetic Resonance, 2007, 187, 66-77.	2.1	9
78	Image reconstruction in reduced circular sinusoidal cone-beam CT. Journal of X-Ray Science and Technology, 2009, 17, 189-205.	1.0	9
79	A Bayesian approach for edge detection in medical ultrasound images. IEEE Transactions on Nuclear Science, 1998, 45, 3089-3096.	2.0	8
80	Analysis of 3D SPECT image reconstruction and its extension to ultrasonic diffraction tomography. IEEE Transactions on Nuclear Science, 1998, 45, 1308-1316.	2.0	8
81	Fourier-based approach to interpolation in single-slice helical computed tomography. Medical Physics, 2001, 28, 381-392.	3.0	8
82	Ï€-scheme short-scan SPECT and image reconstruction with nonuniform attenuation.. IEEE Transactions on Nuclear Science, 2003, 50, 87-96.	2.0	8
83	A rebinned backprojection-filtration algorithm for image reconstruction in helical cone-beam CT. Physics in Medicine and Biology, 2007, 52, 5497-5508.	3.0	8
84	A new reconstruction approach for reflection mode diffraction tomography. IEEE Transactions on Image Processing, 2000, 9, 1262-1271.	9.8	7
85	Favorable noise uniformity properties of Fourier-based interpolation and reconstruction approaches in single-slice helical computed tomography. Medical Physics, 2002, 29, 943-951.	3.0	7
86	Ï€-scheme short-scan SPECT and image reconstruction. , 0, , .		7
87	In-depth analysis of cone-beam CT image reconstruction by ideal observer performance on a detection task. , 2008, , .		7
88	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.	6.1	7
89	Non-circular cone beam CT trajectories: A preliminary investigation on a clinical scanner. , 2010, , .		7
90	A general approach for multidimensional smoothing. Medical Physics, 1998, 25, 562-570.	3.0	6

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91	Spatial-resolution enhancement in computed tomography. IEEE Transactions on Medical Imaging, 2005, 24, 246-253.	8.9	6
92	Backprojectionâ€filtration reconstruction without invoking a spatially varying weighting factor. Medical Physics, 2010, 37, 1201-1209.	3.0	6
93	Frequency extrapolation by nonconvex compressive sensing. , 2011, , .		6
94	Collision-avoiding imaging trajectories for linac mounted cone-beam CT. Journal of X-Ray Science and Technology, 2019, 27, 1-16.	1.0	6
95	Dual-energy CT imaging over non-overlapping, orthogonal arcs of limited-angular ranges. Journal of X-Ray Science and Technology, 2021, 29, 975-985.	1.0	6
96	Preliminary investigation of optimization-based image reconstruction for TOF PET with sparse configurations. , 2019, , .		6
97	Imaging of fiber-like structures in digital breast tomosynthesis. Journal of Medical Imaging, 2019, 6, 1.	1.5	5
98	Quasi-bandlimited properties of Radon transforms and their implications for increasing angular sampling densities. IEEE Transactions on Medical Imaging, 1998, 17, 395-406.	8.9	4
99	Reconstruction of 3D Regions-of-Interest from Data in Reduced Helical Cone-beam Scans. Technology in Cancer Research and Treatment, 2005, 4, 143-150.	1.9	4
100	Accurate image reconstruction in CT from projection data taken at few-views. , 2006, 6142, 784.		4
101	Region of Interest Reconstruction in X-Ray Fluorescence Computed Tomography for Negligible Attenuation. IEEE Transactions on Nuclear Science, 2010, 57, 234-241.	2.0	4
102	Optimizing algorithm parameters based on a model observer detection task for image reconstruction in digital breast tomosynthesis. , 2011, , .		4
103	Use of the Hotelling observer to optimize image reconstruction in digital breast tomosynthesis. Journal of Medical Imaging, 2015, 3, 011008.	1.5	4
104	Image reconstruction from data over two orthogonal arcs of limitedâ€angular ranges. Medical Physics, 2022, 49, 1468-1480.	3.0	4
105	Fast implementation and quantitative evaluation of analytical methods with Wiener filters for image reconstruction in 3D SPECT. IEEE Transactions on Nuclear Science, 1999, 46, 1100-1109.	2.0	3
106	Consistency conditions and linear reconstruction methods in diffraction tomography. IEEE Transactions on Medical Imaging, 2000, 19, 51-54.	8.9	3
107	Mathematical formulation of the potato peeler perspective. , 0, , .		3
108	Exact image reconstruction in a helical cone-beam scan with a variable pitch. , 0, , .		3

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109	Three-term exact FBP reconstruction in cone-beam helical CT. , 0, , .		3
110	Exact ROI Image Reconstruction with Perturbed Source Trajectories in C-Arm CT. , 0, , .		3
111	A preliminary investigation of using prior information for potentially improving image reconstruction in few-view CT. , 2008, , .		3
112	Region of interest imaging for a general trajectory with the rebinned BPF algorithm. Tsinghua Science and Technology, 2010, 15, 68-73.	6.1	3
113	Region of interest based Hotelling observer for computed tomography with comparison to alternative methods. Journal of Medical Imaging, 2014, 1, 031010.	1.5	3
114	Basis-image reconstruction directly from sparse-view data in spectral CT. , 2014, , .		3
115	An investigation of regularization for basis image reconstruction in spectral CT. , 2015, , .		3
116	Impact of angular sampling interval on image reconstruction from limited-angular-range data. , 2022, , .		3
117	FFT-based approach to longitudinal interpolation in single- and multi-slice helical CT. , 0, , .		2
118	Reflectivity tomography using temporally truncated data. , 0, , .		2
119	Iterative image reconstruction with variable resolution in CT. , 2011, , .		2
120	Ensuring convergence in total-variation-based reconstruction for accurate microcalcification imaging in breast X-ray CT. , 2011, , .		2
121	Constrained TV-minimization image reconstruction for industrial CT system. AIP Conference Proceedings, 2014, , .	0.4	2
122	TV-constrained incremental algorithms for low-intensity CT image reconstruction. , 2015, , .		2
123	Dynamic intensity-weighted region of interest imaging for conebeam CT. Journal of X-Ray Science and Technology, 2016, 24, 361-377.	1.0	2
124	TV constrained CT image reconstruction with discretized natural pixels. , 2016, , .		2
125	Optimization-based algorithm for solving the discrete x-ray transform with nonlinear partial volume effect. Journal of Medical Imaging, 2020, 7, 053502.	1.5	2
126	B-spline based weighting functions for helical CT. , 0, , .		1

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127	A detailed investigation of non-iterative methods for 3D SPECT image reconstruction. , 0, , .		1
128	Evaluation of analytical methods for fast and accurate image reconstruction in 3D SPECT. , 0, , .		1
129	A general technique for smoothing multi-dimensional datasets utilizing orthogonal expansions and lower dimensional smoothers. , 0, , .		1
130	A comparative study of image reconstructions in SPECT and ultrasonic diffraction tomography. IEEE Transactions on Nuclear Science, 1999, 46, 527-534.	2.0	1
131	A novel approach for multidimensional interpolation. IEEE Signal Processing Letters, 1999, 6, 38-40.	3.6	1
132	Multidimensional smoothing using orthogonal expansions. IEEE Signal Processing Letters, 1999, 6, 91-94.	3.6	1
133	Toward optimal noniterative reconstruction for 3D SPECT with uniform attenuation and distance-dependent spatial resolution. IEEE Transactions on Nuclear Science, 2002, 49, 774-781.	2.0	1
134	Numerically robust minimal-scan reconstruction algorithms for diffraction tomography via radon transform inversion. International Journal of Imaging Systems and Technology, 2002, 12, 84-91.	4.1	1
135	Sampling and aliasing consequences of quarter-detector offset use in helical CT. , 0, , .		1
136	Data truncation and the exterior reconstruction problem in reflection-mode tomography. , 0, , .		1
137	Reconstructions from parallel- and fan-beam data with truncations. , 2006, , .		1
138	Performance Evaluation of a Prototype Micro-CT System. , 2006, , .		1
139	A Rebinning-type Backprojection-Filtration Algorithm for Image Reconstruction in Helical Cone-beam CT. , 2006, , .		1
140	Estimation of lesion position in computed tomography. , 2007, , .		1
141	Boundary-enhanced region-of-interest image reconstruction in propagation-based x-ray phase-contrast tomography. Applied Physics Letters, 2009, 95, 244101.	3.3	1
142	Initial experience in image reconstruction from limited-angle C-arm CBCT data. , 2011, , .		1
143	Sparse-view image reconstruction from gated cardiac data. , 2011, , .		1
144	Convergence of iterative image reconstruction algorithms for Digital Breast Tomosynthesis. , 2012, , .		1

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145	Constrained TV-minimization reconstruction from exterior CT data. , 2013, , .		1
146	Enhancing tissue structures with iterative image reconstruction for digital breast tomosynthesis. Proceedings of SPIE, 2014, , .	0.8	1
147	Optimization-based 3D variable resolution image reconstruction in cone-beam CT. , 2015, , .		1
148	Reconstructing dynamic magnification CBCT scans with optimization-based reconstruction. , 2016, , .		1
149	Investigation of non-negativity constraint on basis images in half-rotation data reconstruction in spectral CT. , 2016, , .		1
150	Preliminary study of TV-constrained-likelihood-maximization image reconstruction from list-mode TOF-PET data. , 2016, , .		1
151	The Non-prewhitening and Hotelling Observers for Parameter Selection for Linear Iterative Image Reconstruction in Breast Tomosynthesis. , 2017, , .		1
152	Alternating Minimization Based Framework for Simultaneous Spectral Calibration and Image Reconstruction in Spectral CT. , 2018, , .		1
153	An Investigation of Direct Image Reconstruction in DECT with Physical Data. , 2018, , .		1
154	Reduction of Angularly-Varying-Data Truncation in C-Arm CBCT Imaging. Sensing and Imaging, 2018, 19, 1.	1.5	1
155	A signal detection model for quantifying overregularization in nonlinear image reconstruction. Medical Physics, 2021, 48, 6312-6323.	3.0	1
156	Optimization-based reconstruction for correcting non-linear partial volume artifacts in CT. , 2019, , .		1
157	A preliminary study on explicit compensation for the non-linear-partial-volume effect in CT. , 2019, , .		1
158	Image reconstruction from partially truncated data over limited-angular-ranges. , 2022, , .		1
159	Accurate image reconstruction for DOI-PET systems and its implications for the development of economic, compact PET (ezPET) systems. , 0, , .		0
160	Correction to "A Class of Analytical Methods That Compensate for Attenuation and Spatially-Variant Resolution in 2D SPECT" [Erratum]. IEEE Transactions on Nuclear Science, 1996, 43, 3377-3377.	2.0	0
161	Noise properties of reconstructed images in ultrasonic diffraction tomography. , 0, , .		0
162	A Bayesian approach for edge extraction in ultrasound images and its application to image segmentation. , 0, , .		0

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163	Comparative studies of image reconstructions in SPECT and diffraction tomography. , 0, , .		0
164	An efficient and accurate interpolation strategy for multi-dimensional functions. , 0, , .		0
165	New classes of reconstruction methods in reflection mode diffraction tomography. , 0, , .		0
166	Effect of an imaginary combination coefficient on the global image variance in SPECT. , 0, , .		0
167	Medical imaging applications of effectively multi-dimensional interpolation. , 0, , .		0
168	Optimal unbiased reduction of global image variances in SPECT. IEEE Transactions on Nuclear Science, 1999, 46, 1148-1155.	2.0	0
169	Resolution properties of non-parametric regression sinogram smoothing using an explicit Poisson model. , 0, , .		0
170	Longitudinal sampling and aliasing in multi-slice helical computed tomography. , 0, , .		0
171	Toward optimal non-iterative reconstruction for 3D SPECT with uniform attenuation and distance-dependent spatial resolution. , 0, , .		0
172	Favorable noise uniformity properties of Fourier-based approaches to interpolation in helical CT with implications for 3D visualization. , 0, , .		0
173	Dual isotope (In-111/Tc-99 m) SPECT: noise reduction with an analytic attenuation correction method. , 0, , .		0
174	An angular frequency dependent filter for PET reconstruction. , 0, , .		0
175	A new approach to reconstructing images in fan-beam computed tomography. , 0, , .		0
176	Image reconstruction of reflectivity from short scan data. , 0, , .		0
177	Variable sinograms and redundant information in tomographic imaging. , 0, , .		0
178	Preliminary investigation of a novel reconstruction algorithm based upon the potato peeler perspective. , 0, , .		0
179	Deblurring and noise suppression in spatial EPR imaging. , 0, , .		0
180	Reconstruction from minimum data in helical cone-beam CT. , 0, , .		0

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181	Spatial-resolution enhancement in micro-CT. , 0, , .		0
182	An evaluation of SPECT imaging for quantitative assessment of Parkinson's disease. , 0, , .		0
183	Improving the Temporal Resolution of Tomographic Images Using a PI-Line Based Backprojection Filtration Algorithm. , 0, , .		0
184	Noise Properties of the Chord-based Algorithms for Reduced Scans. , 0, , .		0
185	A Rebinning-Type Backprojection-Filtration Algorithm for Region of Interest Reconstruction in Fan-Beam CT with Improved Noise Properties. , 0, , .		0
186	Image Reconstruction from Longitudinally and Transversely Truncated Data along an Arc-Line Trajectory. , 0, , .		0
187	Backprojection-filtration Reconstruction for Helical Cone-beam CT with Curved Detectors. , 0, , .		0
188	ROI reconstruction of motion-contaminated data with a backprojection filtration algorithm. , 0, , .		0
189	Image Reconstruction from Sparse Data in Echo-Planar Imaging. , 2006, , .		0
190	Image quality evaluation of motion-contaminated calcified plaques in cardiac CT. , 2007, , .		0
191	Image noise properties in circular sinusoid cone-beam CT. , 2007, , .		0
192	AN EXACT ANALYTIC APPROACH TO 3D PET IMAGE RECONSTRUCTION. International Journal of Image and Graphics, 2007, 07, 35-54.	1.5	0
193	Reconstructible volume for cone-beam CT with a reduced saddle trajectory. , 2007, , .		0
194	Preliminary study on the impact of digital breast tomosynthesis scanning angle on micro-calcification imaging. , 2008, , .		0
195	Preliminary investigation of dose allocation in low-dose cone-beam CT. , 2010, , .		0
196	Low-dose CT in SPECT/CT patient scan. , 2010, , .		0
197	Investigation of low-contrast tumor detection in algorithm-enabled low-dose CBCT. , 2010, , .		0
198	Image reconstruction from a reduced number of projections in Micro-CT specimen imaging. , 2010, , .		0

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199	Dynamic region-of-interest cone-beam CT for image-guided postmastectomy radiotherapy. , 2011, , .		0
200	A preliminary study of image reconstruction from low-dose data in dedicated breast CT. , 2011, , .		0
201	Characterizing a discrete-to-discrete X-ray transform for iterative image reconstruction with limited angular-range scanning in CT. , 2012, , .		0
202	A preliminary investigation of CT-dose reduction in SPECT/CBCT. , 2012, , .		0
203	CT image reconstruction design by investigation of the propagation of Hotelling SNR. , 2012, , .		0
204	Algorithm-enabled high-performance C-arm cone-beam CT angiography of cerebral vasculature. , 2013, , .		0
205	Optimization of filtered back-projection for a Rayleigh task. , 2013, , .		0
206	Optimization-based image reconstruction from low-dose patient breast CT Data. , 2013, , .		0
207	Verifying cone-beam CT extended axial coverage with iterative reconstruction using real data. , 2013, , .		0
208	Investigation of optimization-based reconstruction for intra-operative neurological imaging. , 2013, , .		0
209	Fast, robust dynamic field-of-view adjustment for iterative reconstruction of dedicated breast CT. , 2013, , .		0
210	An efficient ordered subsets CT image reconstruction algorithm for sparse-view, noisy data. , 2014, , .		0
211	Direct inversion of spectral CT data into a materials decomposition and the effect of multiple soft tissues. , 2014, , .		0
212	An analytic noise model to aid in the development of total-variation-penalized CT image reconstruction. , 2015, , .		0
213	Investigation of optimization-based reconstruction with an image-total-variation constraint in PET. , 2015, , .		0
214	Algorithm-enabled single-kVp-switch scan configuration for dual-energy CT. , 2017, , .		0
215	Preliminary Patient Study of TV-Constrained Image Reconstruction from Low-Statistics List-Mode TOF-PET Data. , 2017, , .		0
216	A Preliminary Study on Optimization-Based Image Reconstruction from Sparse, List-Mode TOF-PET Data. , 2018, , .		0

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217	Orientation Dependent Visualization of Fibers in Digital Breast Tomosynthesis: Advantages of a Circular Source Trajectory. , 2018, , .		0
218	Artifact Reduction in Spare-view Image Reconstruction in C-arm CT. , 2018, , .		0
219	ASO Visual Abstract: High-Resolution Full 3D Specimen Imaging for Lumpectomy Margin AssessmentÂin Breast Cancer. Annals of Surgical Oncology, 2021, 28, 626-627.	1.5	0
220	Some Recent Developments in Reconstruction Algorithms for Tomographic Imaging. , 2008, , 361-391.		0
221	Bone sparsity model for computed tomography image reconstruction. , 2019, , .		0
222	Simultaneous correction of limited-angular-range and beam-hardening artifacts in dual-energy CT. , 2022, , .		0
223	An extended primal-dual algorithm framework for nonconvex problems: Application to image reconstruction in spectral CT. Inverse Problems, 0, , .	2.0	0