Xiaochuan Pan

List of Publications by Year
in descending order

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 from data over two orthogonal arcs of limited‐angular ranges. Medical Physics, 2022, 49, 1468-1480.	3.0	4
2	Report on the AAPM deep‐learning sparse‐view CT grand challenge. Medical Physics, 2022, 49, 4935-4943.	3.0	13
3	Impact of angular sampling interval on image reconstruction from limited-angular-range data. , 2022, , .		3
4	Addressing CT metal artifacts using photon‐counting detectors and one‐step spectral CT image reconstruction. Medical Physics, 2022, 49, 3021-3040.	3.0	11
5	Simultaneous correction of limited-angular-range and beam-hardening artifacts in dual-energy CT. , 2022, , .		0
6	Image reconstruction from partially truncated data over limited-angular-ranges. , 2022, , .		1
7	Non-convex primal-dual algorithm for image reconstruction in spectral CT. Computerized Medical Imaging and Graphics, 2021, 87, 101821.	5.8	23
8	Do CNNs Solve the CT Inverse Problem?. IEEE Transactions on Biomedical Engineering, 2021, 68, 1799-1810.	4.2	27
9	Directional-TV algorithm for image reconstruction from limited-angular-range data. Medical Image Analysis, 2021, 70, 102030.	11.6	40
10	A signal detection model for quantifying overregularization in nonlinear image reconstruction. Medical Physics, 2021, 48, 6312-6323.	3.0	1
11	High-Resolution Full-3D Specimen Imaging for Lumpectomy Margin Assessment in Breast Cancer. Annals of Surgical Oncology, 2021, 28, 5513-5524.	1.5	10
12	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
13	Dual-energy CT imaging with limited-angular-range data. Physics in Medicine and Biology, 2021, 66, 185020.	3.0	21
14	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
15	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
16	Collision-avoiding imaging trajectories for linac mounted cone-beam CT. Journal of X-Ray Science and Technology, 2019, 27, 1-16.	1.0	6
17	Estimating the spectrum in computed tomography via Kullback–Leibler divergence constrained optimization. Medical Physics, 2019, 46, 81-92.	3.0	22
18	Imaging of fiber-like structures in digital breast tomosynthesis. Journal of Medical Imaging, 2019, 6, 1.	1.5	5

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19	Preliminary investigation of optimization-based image reconstruction for TOF PET with sparse configurations. , 2019, , .		6
20	Optimization-based reconstruction for correcting non-linear partial volume artifacts in CT. , 2019, , .		1
21	A preliminary study on explicit compensation for the non-linear-partial-volume effect in CT. , 2019, , .		1
22	Bone sparsity model for computed tomography image reconstruction. , 2019, , .		0
23	Algorithm-enabled partial-angular-scan configurations for dual-energy CT. Medical Physics, 2018, 45, 1857-1870.	3.0	24
24	Optimization-Based Image Reconstruction From Low-Count, List-Mode TOF-PET Data. IEEE Transactions on Biomedical Engineering, 2018, 65, 936-946.	4.2	11
25	Alternating Minimization Based Framework for Simultaneous Spectral Calibration and Image Reconstruction in Spectral CT. , 2018, , .		1
26	An Investigation of Direct Image Reconstruction in DECT with Physical Data. , 2018, , .		1
27	A Preliminary Study on Optimization-Based Image Reconstruction from Sparse, List-Mode TOF-PET Data. , 2018, , .		0
28	Orientation Dependent Visualization of Fibers in Digital Breast Tomosynthesis: Advantages of a Circular Source Trajectory. , 2018, , .		0
29	Artifact Reduction in Spare-view Image Reconstruction in C-arm CT. , 2018, , .		0
30	Reduction of Angularly-Varying-Data Truncation in C-Arm CBCT Imaging. Sensing and Imaging, 2018, 19, 1.	1.5	1
31	Optimization-based image reconstruction from sparsely sampled data in electron paramagnetic resonance imaging. Journal of Magnetic Resonance, 2018, 294, 24-34.	2.1	16
32	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
33	Investigating simulation-based metrics for characterizing linear iterative reconstruction in digital breast tomosynthesis. Medical Physics, 2017, 44, e279-e296.	3.0	10
34	Algorithm-enabled single-kVp-switch scan configuration for dual-energy CT. , 2017, , .		0
35	Preliminary Patient Study of TV-Constrained Image Reconstruction from Low-Statistics List-Mode TOF-PET Data. , 2017, , .		0
36	The Non-prewhitening and Hotelling Observers for Parameter Selection for Linear Iterative Image Reconstruction in Breast Tomosynthesis. , 2017, , .		1

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37	Reconstructing dynamic magnification CBCT scans with optimization-based reconstruction. , 2016, , .		1
38	Investigation of non-negativity constraint on basis images in half-rotation data reconstruction in spectral CT. , 2016, , .		1
39	An algorithm for constrained one-step inversion of spectral CT data. Physics in Medicine and Biology, 2016, 61, 3784-3818.	3.0	118
40	Dynamic intensity-weighted region of interest imaging for conebeam CT. Journal of X-Ray Science and Technology, 2016, 24, 361-377.	1.0	2
41	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
42	Artifact reduction in short-scan CBCT by use of optimization-based reconstruction. Physics in Medicine and Biology, 2016, 61, 3387-3406.	3.0	48
43	Optimization-based image reconstruction with artifact reduction in C-arm CBCT. Physics in Medicine and Biology, 2016, 61, 7300-7333.	3.0	32
44	Preliminary study of TV-constrained-likelihood-maximization image reconstruction from list-mode TOF-PET data. , 2016, , .		1
45	TV constrained CT image reconstruction with discretized natural pixels. , 2016, , .		2
46	TV-constrained incremental algorithms for low-intensity CT image reconstruction. , 2015, , .		2
47	An analytic noise model to aid in the development of total-variation-penalized CT image reconstruction. , 2015, , .		0
48	Investigation of optimization-based reconstruction with an image-total-variation constraint in PET. , 2015, , .		0
49	An investigation of regularization for basis image reconstruction in spectral CT. , 2015, , .		3
50	Noise properties of CT images reconstructed by use of constrained totalâ€variation, dataâ€discrepancy minimization. Medical Physics, 2015, 42, 2690-2698.	3.0	18
51	Optimization-based 3D variable resolution image reconstruction in cone-beam CT. , 2015, , .		1
52	Use of the Hotelling observer to optimize image reconstruction in digital breast tomosynthesis. Journal of Medical Imaging, 2015, 3, 011008.	1.5	4
53	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
54	Empirical average-case relation between undersampling and sparsity in X-ray CT. Inverse Problems and Imaging, 2015, 9, 431-446.	1.1	15

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55	Analysis of iterative region-of-interest image reconstruction for x-ray computed tomography. Journal of Medical Imaging, 2014, 1, 031007.	1.5	32
56	Region of interest based Hotelling observer for computed tomography with comparison to alternative methods. Journal of Medical Imaging, 2014, 1, 031010.	1.5	3
57	Constrained TV-minimization image reconstruction for industrial CT system. AIP Conference Proceedings, 2014, , .	0.4	2
58	Enhancing tissue structures with iterative image reconstruction for digital breast tomosynthesis. Proceedings of SPIE, 2014, , .	0.8	1
59	X-ray tomography system to investigate granular materials during mechanical loading. Review of Scientific Instruments, 2014, 85, 083708.	1.3	11
60	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
61	Investigation of iterative image reconstruction in low-dose breast CT. Physics in Medicine and Biology, 2014, 59, 2659-2685.	3.0	47
62	Task-based optimization of dedicated breast CT via Hotelling observer metrics. Medical Physics, 2014, 41, 101917.	3.0	18
63	An efficient ordered subsets CT image reconstruction algorithm for sparse-view, noisy data. , 2014, , .		0
64	Basis-image reconstruction directly from sparse-view data in spectral CT. , 2014, , .		3
65	Direct inversion of spectral CT data into a materials decomposition and the effect of multiple soft tissues. , 2014, , .		0
66	Algorithm-enabled high-performance C-arm cone-beam CT angiography of cerebral vasculature. , 2013, , .		0
67	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
68	Optimization-based image reconstruction from sparse-view data in offset-detector CBCT. Physics in Medicine and Biology, 2013, 58, 205-230.	3.0	67
69	Optimization of filtered back-projection for a Rayleigh task. , 2013, , .		0
70	Optimization-based image reconstruction from low-dose patient breast CT Data. , 2013, , .		0
71	Constrained TV-minimization reconstruction from exterior CT data. , 2013, , .		1
72	Verifying cone-beam CT extended axial coverage with iterative reconstruction using real data. , 2013, , .		0

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73	Investigation of optimization-based reconstruction for intra-operative neurological imaging. , 2013, , .		0
74	Fast, robust dynamic field-of-view adjustment for iterative reconstruction of dedicated breast CT. , 2013, , .		0
75	First‑order convex feasibility algorithms for x‑ray CT. Medical Physics, 2013, 40, 031115.	3.0	21
76	Characterizing a discrete-to-discrete X-ray transform for iterative image reconstruction with limited angular-range scanning in CT. , 2012, , .		0
77	Convergence of iterative image reconstruction algorithms for Digital Breast Tomosynthesis. , 2012, , .		1
78	A preliminary investigation of CT-dose reduction in SPECT/CBCT. , 2012, , .		0
79	CT image reconstruction design by investigation of the propagation of Hotelling SNR. , 2012, , .		0
80	Optimization-based reconstruction of sparse images from few-view projections. Physics in Medicine and Biology, 2012, 57, 5245-5273.	3.0	98
81	Convex optimization problem prototyping for image reconstruction in computed tomography with the Chambolle‑Pock algorithm. Physics in Medicine and Biology, 2012, 57, 3065-3091.	3.0	273
82	Dynamic region-of-interest cone-beam CT for image-guided postmastectomy radiotherapy. , 2011, , .		0
83	Algorithm-Enabled Low-Dose Micro-CT Imaging. IEEE Transactions on Medical Imaging, 2011, 30, 606-620.	8.9	123
84	A constrained, total-variation minimization algorithm for low-intensity x-ray CT. Medical Physics, 2011, 38, S117-S125.	3.0	87
85	Initial experience in image reconstruction from limited-angle C-arm CBCT data. , 2011, , .		1
86	A preliminary study of image reconstruction from low-dose data in dedicated breast CT. , 2011, , .		0
87	Iterative image reconstruction with variable resolution in CT. , 2011, , .		2
88	Sparse-view image reconstruction from gated cardiac data. , 2011, , .		1
89	Ensuring convergence in total-variation-based reconstruction for accurate microcalcification imaging in breast X-ray CT. , 2011, , .		2
90	Optimizing algorithm parameters based on a model observer detection task for image reconstruction in digital breast tomosynthesis. , 2011, , .		4

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91	Frequency extrapolation by nonconvex compressive sensing. , 2011, , .		6
92	A BPFâ€FBP tandem algorithm for image reconstruction in reverse helical coneâ€beam CT. Medical Physics, 2010, 37, 32-39.	3.0	15
93	Backprojectionâ€filtration reconstruction without invoking a spatially varying weighting factor. Medical Physics, 2010, 37, 1201-1209.	3.0	6
94	Evaluation of sparse-view reconstruction from flat-panel-detector cone-beam CT. Physics in Medicine and Biology, 2010, 55, 6575-6599.	3.0	314
95	Region of interest imaging for a general trajectory with the rebinned BPF algorithm. Tsinghua Science and Technology, 2010, 15, 68-73.	6.1	3
96	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
97	Non-circular cone beam CT trajectories: A preliminary investigation on a clinical scanner. , 2010, , .		7
98	Preliminary investigation of dose allocation in low-dose cone-beam CT. , 2010, , .		0
99	Low-dose CT in SPECT/CT patient scan. , 2010, , .		0
100	Investigation of low-contrast tumor detection in algorithm-enabled low-dose CBCT. , 2010, , .		0
101	Image reconstruction from a reduced number of projections in Micro-CT specimen imaging. , 2010, , .		0
102	Image reconstruction exploiting object sparsity in boundary-enhanced X-ray phase-contrast tomography. Optics Express, 2010, 18, 10404.	3.4	47
103	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
104	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
105	Image reconstruction in reduced circular sinusoidal cone-beam CT. Journal of X-Ray Science and Technology, 2009, 17, 189-205.	1.0	9
106	Why do commercial CT scanners still employ traditional, filtered back-projection for image reconstruction?. Inverse Problems, 2009, 25, 123009.	2.0	417
107	Boundary-enhanced region-of-interest image reconstruction in propagation-based x-ray phase-contrast tomography. Applied Physics Letters, 2009, 95, 244101.	3.3	1
108	Enhanced imaging of microcalcifications in digital breast tomosynthesis through improved imageâ€reconstruction algorithms. Medical Physics, 2009, 36, 4920-4932.	3.0	157

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109	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
110	A preliminary investigation of using prior information for potentially improving image reconstruction in few-view CT. , 2008, , .		3
111	In-depth analysis of cone-beam CT image reconstruction by ideal observer performance on a detection task. , 2008, , .		7
112	Preliminary study on the impact of digital breast tomosynthesis scanning angle on micro-calcification imaging. , 2008, , .		0
113	Exact reconstruction of volumetric images in reverse helical cone-beam CT. Medical Physics, 2008, 35, 3030-3040.	3.0	20
114	Anniversary Paper: Development of x-ray computed tomography: The role of <i>Medical Physics</i> and <i>AAPM</i> from the 1970s to present. Medical Physics, 2008, 35, 3728-3739.	3.0	52
115	Some Recent Developments in Reconstruction Algorithms for Tomographic Imaging. , 2008, , 361-391.		0
116	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
117	Image quality evaluation of motion-contaminated calcified plaques in cardiac CT. , 2007, , .		0
118	Image noise properties in circular sinusoid cone-beam CT. , 2007, , .		0
119	Estimation of lesion position in computed tomography. , 2007, , .		1
120	Regionâ€of â€interest image reconstruction in circular coneâ€beam microCT. Medical Physics, 2007, 34, 4923-4933.	3.0	24
121	AN EXACT ANALYTIC APPROACH TO 3D PET IMAGE RECONSTRUCTION. International Journal of Image and Graphics, 2007, 07, 35-54.	1.5	0
122	Reconstructible volume for cone-beam CT with a reduced saddle trajectory. , 2007, , .		0
123	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
124	Image reconstruction from few views by non-convex optimization. , 2007, , .		27
125	Noise Properties of Chord-Image Reconstruction. IEEE Transactions on Medical Imaging, 2007, 26, 1328-1344.	8.9	10
126	Targeted-ROI imaging in electron paramagnetic resonance imaging. Journal of Magnetic Resonance, 2007, 187, 66-77.	2.1	9

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127	Region of interest reconstruction from truncated data in circular cone-beam CT. IEEE Transactions on Medical Imaging, 2006, 25, 869-881.	8.9	89
128	Image Reconstruction from Sparse Data in Echo-Planar Imaging. , 2006, , .		0
129	Reconstructions from parallel- and fan-beam data with truncations. , 2006, , .		1
130	Performance Evaluation of a Prototype Micro-CT System. , 2006, , .		1
131	Accurate image reconstruction in CT from projection data taken at few-views. , 2006, 6142, 784.		4
132	A Rebinning-type Backprojection-Filtration Algorithm for Image Reconstruction in Helical Cone-beam CT. , 2006, , .		1
133	Accurate image reconstruction in circular cone-beam computed tomography by total variation minimization: a preliminary investigation. , 2006, , .		17
134	Region-of-interest reconstruction of motion-contaminated data using a weighted backprojection filtration algorithm. Medical Physics, 2006, 33, 1222-1238.	3.0	9
135	Effect of the data constraint on few-view, fan-beam CT image reconstruction by TV minimization. , 2006, , .		16
136	A hybrid approach to reducing computed tomography metal artifacts in intracavitary brachytherapy. Brachytherapy, 2005, 4, 18-23.	0.5	46
137	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
138	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
139	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
140	Image reconstruction in regions of interest from truncated Radon transforms of even dimensions. Inverse Problems, 2005, 21, 1169-1177.	2.0	9
141	Image reconstruction in peripheral and central regions-of-interest and data redundancy. Medical Physics, 2005, 32, 673-684.	3.0	76
142	Reconstruction of refractive index discontinuities from truncated phase-contrast tomography projections. Applied Physics Letters, 2005, 86, 034102.	3.3	15
143	PI-line-based image reconstruction in helical cone-beam computed tomography with a variable pitch. Medical Physics, 2005, 32, 2639-2648.	3.0	20
144	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

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145	Spatial-resolution enhancement in computed tomography. IEEE Transactions on Medical Imaging, 2005, 24, 246-253.	8.9	6
146	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
147	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
148	Partial volume and aliasing artefacts in helical cone-beam CT. Physics in Medicine and Biology, 2004, 49, 2365-2375.	3.0	28
149	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
150	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
151	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
152	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
153	Ï€-scheme short-scan SPECT and image reconstruction with nonuniform attenuation.. IEEE Transactions on Nuclear Science, 2003, 50, 87-96.	2.0	8
154	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
155	A preliminary investigation of local tomography for megavoltage CT imaging. Medical Physics, 2003, 30, 2969-2980.	3.0	20
156	Half-scan fan-beam computed tomography with improved noise and resolution properties. Medical Physics, 2003, 30, 2629-2637.	3.0	24
157	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
158	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
159	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
160	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
161	Transmission image reconstruction and redundant information in SPECT with asymmetric fanbeam collimation. IEEE Transactions on Nuclear Science, 2001, 48, 1357-1363.	2.0	9
162	Fourier-based approach to interpolation in single-slice helical computed tomography. Medical Physics, 2001, 28, 381-392.	3.0	8

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163	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
164	Fast reconstruction with uniform noise properties in halfscan computed tomography. Medical Physics, 2000, 27, 2031-2036.	3.0	9
165	A new reconstruction approach for reflection mode diffraction tomography. IEEE Transactions on Image Processing, 2000, 9, 1262-1271.	9.8	7
166	Consistency conditions and linear reconstruction methods in diffraction tomography. IEEE Transactions on Medical Imaging, 2000, 19, 51-54.	8.9	3
167	Nonparametric regression sinogram smoothing using a roughness-penalized Poisson likelihood objective function. IEEE Transactions on Medical Imaging, 2000, 19, 773-786.	8.9	33
168	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
169	Optimal unbiased reduction of global image variances in SPECT. IEEE Transactions on Nuclear Science, 1999, 46, 1148-1155.	2.0	0
170	A comparative study of image reconstructions in SPECT and ultrasonic diffraction tomography. IEEE Transactions on Nuclear Science, 1999, 46, 527-534.	2.0	1
171	Optimal noise control in and fast reconstruction of fan-beam computed tomography image. Medical Physics, 1999, 26, 689-697.	3.0	63
172	A novel approach for multidimensional interpolation. IEEE Signal Processing Letters, 1999, 6, 38-40.	3.6	1
173	Multidimensional smoothing using orthogonal expansions. IEEE Signal Processing Letters, 1999, 6, 91-94.	3.6	1
174	A Bayesian approach for edge detection in medical ultrasound images. IEEE Transactions on Nuclear Science, 1998, 45, 3089-3096.	2.0	8
175	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
176	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
177	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
178	Image restoration and reconstruction with a Bayesian approach. Medical Physics, 1998, 25, 600-613.	3.0	14
179	A general approach for multidimensional smoothing. Medical Physics, 1998, 25, 562-570.	3.0	6
180	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

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181	Accurate image reconstruction for DOI-PET systems and its implications for the development of economic, compact PET (ezPET) systems. , 0, , .		0
182	B-spline based weighting functions for helical CT. , 0, , .		1
183	Noise properties of reconstructed images in ultrasonic diffraction tomography. , 0, , .		0
184	A detailed investigation of non-iterative methods for 3D SPECT image reconstruction. , 0, , .		1
185	A Bayesian approach for edge extraction in ultrasound images and its application to image segmentation. , 0, , .		0
186	Evaluation of analytical methods for fast and accurate image reconstruction in 3D SPECT. , 0, , .		1
187	Comparative studies of image reconstructions in SPECT and diffraction tomography. , 0, , .		0
188	A general technique for smoothing multi-dimensional datasets utilizing orthogonal expansions and lower dimensional smoothers. , 0, , .		1
189	An efficient and accurate interpolation strategy for multi-dimensional functions. , 0, , .		0
190	New classes of reconstruction methods in reflection mode diffraction tomography. , 0, , .		0
191	Effect of an imaginary combination coefficient on the global image variance in SPECT. , 0, , .		0
192	Medical imaging applications of effectively multi-dimensional interpolation. , 0, , .		0
193	FFT-based approach to longitudinal interpolation in single- and multi-slice helical CT. , 0, , .		2
194	Resolution properties of non-parametric regression sinogram smoothing using an explicit Poisson model. , 0, , .		0
195	Longitudinal sampling and aliasing in multi-slice helical computed tomography. , 0, , .		0
196	Toward optimal non-iterative reconstruction for 3D SPECT with uniform attenuation and distance-dependent spatial resolution. , 0, , .		0
197	Favorable noise uniformity properties of Fourier-based approaches to interpolation in helical CT with implications for 3D visualization. , 0, , .		0
198	Dual isotope (In-111/Tc-99 m) SPECT: noise reduction with an analytic attenuation correction method. , 0, , .		0

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199	Reflectivity tomography using temporally truncated data. , 0, , .		2
200	An angular frequency dependent filter for PET reconstruction. , 0, , .		0
201	A new approach to reconstructing images in fan-beam computed tomography. , 0, , .		0
202	Ï€-scheme short-scan SPECT and image reconstruction. , 0, , .		7
203	Image reconstruction of reflectivity from short scan data. , 0, , .		0
204	Variable sinograms and redundant information in tomographic imaging. , 0, , .		0
205	Mathematical formulation of the potato peeler perspective. , 0, , .		3
206	Preliminary investigation of a novel reconstruction algorithm based upon the potato peeler perspective. , 0, , .		0
207	Deblurring and noise suppression in spatial EPR imaging. , 0, , .		0
208	Sampling and aliasing consequences of quarter-detector offset use in helical CT. , 0, , .		1
209	Data truncation and the exterior reconstruction problem in reflection-mode tomography. , 0, , .		1
210	Reconstruction from minimum data in helical cone-beam CT. , 0, , .		0
211	Spatial-resolution enhancement in micro-CT. , 0, , .		0
212	Exact image reconstruction in a helical cone-beam scan with a variable pitch. , 0, , .		3
213	An evaluation of SPECT imaging for quantitative assessment of Parkinson's disease. , 0, , .		0
214	Three-term exact FBP reconstruction in cone-beam helical CT. , 0, , .		3
215	Exact ROI Image Reconstruction with Perturbed Source Trajectories in C-Arm CT. , 0, , .		3
216	Improving the Temporal Resolution of Tomographic Images Using a PI-Line Based Backprojection Filtration Algorithm. , 0, , .		0

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217	Noise Properties of the Chord-based Algorithms for Reduced Scans. , 0, , .		0
218	A Rebinning-Type Backprojection-Filtration Algorithm for Region of Interest Reconstruction in Fan-Beam CT with Improved Noise Properties. , 0, , .		0
219	Image Reconstruction from Longitudinally and Transversely Truncated Data along an Arc-Line Trajectory. , 0, , .		0
220	Backprojection-filtration Reconstruction for Helical Cone-beam CT with Curved Detectors. , 0, , .		0
221	ROI reconstruction of motion-contaminated data with a backprojection filtration algorithm. , 0, , .		0
222	Volume Image Reconstruction from a Straight-Line Source Trajectory. , 0, , .		10
223	An extended primal-dual algorithm framework for nonconvex problems: Application to image reconstruction in spectral CT. Inverse Problems, 0, , .	2.0	0