Jeffrey A Fessler

List of Publications by Year
in descending order

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205 papers	8,426 citations	50276 46 h-index	54911 84 g-index
206 all docs	206 docs citations	206 times ranked	6054 citing authors

#	Article	IF	Citations
1	Statistical image reconstruction for polyenergetic X-ray computed tomography. IEEE Transactions on Medical Imaging, 2002, 21, 89-99.	8.9	531
2	Image Reconstruction is a New Frontier of Machine Learning. IEEE Transactions on Medical Imaging, 2018, 37, 1289-1296.	8.9	366
3	Fast, iterative image reconstruction for MRI in the presence of field inhomogeneities. IEEE Transactions on Medical Imaging, 2003, 22, 178-188.	8.9	323
4	Spatial domain method for the design of RF pulses in multicoil parallel excitation. Magnetic Resonance in Medicine, 2006, 56, 620-629.	3.0	282
5	Globally convergent image reconstruction for emission tomography using relaxed ordered subsets algorithms. IEEE Transactions on Medical Imaging, 2003, 22, 613-626.	8.9	256
6	Model-Based Image Reconstruction for MRI. IEEE Signal Processing Magazine, 2010, 27, 81-89.	5.6	234
7	A Splitting-Based Iterative Algorithm for Accelerated Statistical X-Ray CT Reconstruction. IEEE Transactions on Medical Imaging, 2012, 31, 677-688.	8.9	208
8	Grouped-coordinate ascent algorithms for penalized-likelihood transmission image reconstruction. IEEE Transactions on Medical Imaging, 1997, 16, 166-175.	8.9	193
9	Regularization Parameter Selection for Nonlinear Iterative Image Restoration and MRI Reconstruction Using GCV and SURE-Based Methods. IEEE Transactions on Image Processing, 2012, 21, 3659-3672.	9.8	193
10	Reducing between scanner differences in multi-center PET studies. NeuroImage, 2009, 46, 154-159.	4.2	192
11	Image Reconstruction: From Sparsity to Data-Adaptive Methods and Machine Learning. Proceedings of the IEEE, 2020, 108, 86-109.	21.3	187
12	Parallel MR Image Reconstruction Using Augmented Lagrangian Methods. IEEE Transactions on Medical Imaging, 2011, 30, 694-706.	8.9	186
13	Conjugate-gradient preconditioning methods for shift-variant PET image reconstruction. IEEE Transactions on Image Processing, 1999, 8, 688-699.	9.8	183
14	3D Forward and Back-Projection for X-Ray CT Using Separable Footprints. IEEE Transactions on Medical Imaging, 2010, 29, 1839-1850.	8.9	182
15	On NUFFT-based gridding for non-Cartesian MRI. Journal of Magnetic Resonance, 2007, 188, 191-195.	2.1	179
16	Multi-Material Decomposition Using Statistical Image Reconstruction for Spectral CT. IEEE Transactions on Medical Imaging, 2014, 33, 1614-1626.	8.9	173
17	Modelling the physics in the iterative reconstruction for transmission computed tomography. Physics in Medicine and Biology, 2013, 58, R63-R96.	3.0	163
18	Segmentation-free statistical image reconstruction for polyenergetic x-ray computed tomography with experimental validation. Physics in Medicine and Biology, 2003, 48, 2453-2477.	3.0	124

#	Article	IF	Citations
19	Statistical Image Reconstruction Methods for Transmission Tomography. , 0, , 1-70.		116
20	Combining Ordered Subsets and Momentum for Accelerated X-Ray CT Image Reconstruction. IEEE Transactions on Medical Imaging, 2015, 34, 167-178.	8.9	113
21	Optimization Methods for Magnetic Resonance Image Reconstruction: Key Models and Optimization Algorithms. IEEE Signal Processing Magazine, 2020, 37, 33-40.	5.6	109
22	Convolutional Dictionary Learning: Acceleration and Convergence. IEEE Transactions on Image Processing, 2018, 27, 1697-1712.	9.8	102
23	Regularized Field Map Estimation in MRI. IEEE Transactions on Medical Imaging, 2008, 27, 1484-1494.	8.9	98
24	An Expanded Theoretical Treatment of Iteration-Dependent Majorize-Minimize Algorithms. IEEE Transactions on Image Processing, 2007, 16, 2411-2422.	9.8	93
25	Separate Magnitude and Phase Regularization via Compressed Sensing. IEEE Transactions on Medical Imaging, 2012, 31, 1713-1723.	8.9	87
26	Dynamic field map estimation using a spiral-in/spiral-out acquisition. Magnetic Resonance in Medicine, 2004, 51, 1194-1204.	3.0	86
27	Compensation for Nonuniform Resolution Using Penalized-Likelihood Reconstruction in Space-Variant Imaging Systems. IEEE Transactions on Medical Imaging, 2004, 23, 269-284.	8.9	85
28	Conjugate phase MRI reconstruction with spatially variant sample density correction. IEEE Transactions on Medical Imaging, 2005, 24, 325-336.	8.9	82
29	Optimized first-order methods for smooth convex minimization. Mathematical Programming, 2016, 159, 81-107.	2.4	81
30	Deep BCD-Net Using Identical Encoding-Decoding CNN Structures for Iterative Image Recovery. , 2018, , .		80
31	Ranging and light field imaging with transparent photodetectors. Nature Photonics, 2020, 14, 143-148.	31.4	80
32	Statistical image reconstruction methods for randoms-precorrected PET scans. Medical Image Analysis, 1998, 2, 369-378.	11.6	79
33	Estimating 3-D Respiratory Motion From Orbiting Views by Tomographic Image Registration. IEEE Transactions on Medical Imaging, 2007, 26, 153-163.	8.9	79
34	PWLS-ULTRA: An Efficient Clustering and Learning-Based Approach for Low-Dose 3D CT Image Reconstruction. IEEE Transactions on Medical Imaging, 2018, 37, 1498-1510.	8.9	77
35	Iterative RF pulse design for multidimensional, small-tip-angle selective excitation. Magnetic Resonance in Medicine, 2005, 54, 908-917.	3.0	73
36	Efficient and accurate likelihood for iterative image reconstruction in x-ray computed tomography. , 2003, , .		70

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37	Mean and variance of single photon counting with deadtime. Physics in Medicine and Biology, 2000, 45, 2043-2056.	3.0	67
38	A Simple Regularizer for B-spline Nonrigid Image Registration That Encourages Local Invertibility. IEEE Journal on Selected Topics in Signal Processing, 2009, 3, 159-169.	10.8	64
39	Maximum-likelihood dual-energy tomographic image reconstruction. , 2002, 4684, 38.		61
40	Advanced three-dimensional tailored RF pulse for signal recovery inT2*-weighted functional magnetic resonance imaging. Magnetic Resonance in Medicine, 2006, 56, 1050-1059.	3.0	61
41	Penalized-likelihood image reconstruction for digital holography. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2004, 21, 737.	1.5	60
42	Fast Large-Tip-Angle Multidimensional and Parallel RF Pulse Design in MRI. IEEE Transactions on Medical Imaging, 2009, 28, 1548-1559.	8.9	58
43	A feasibility study of mutual information based setup error estimation for radiotherapy. Medical Physics, 2001, 28, 2507-2517.	3.0	57
44	Statistical Sinogram Restoration in Dual-Energy CT for PET Attenuation Correction. IEEE Transactions on Medical Imaging, 2009, 28, 1688-1702.	8.9	55
45	Dual Energy CT Attenuation Correction Methods for Quantitative Assessment of Response to Cancer Therapy with PET/CT Imaging. Technology in Cancer Research and Treatment, 2006, 5, 319-327.	1.9	53
46	Improved quantitative ⁹⁰Y bremsstrahlung <scp>SPECT</scp>/<scp>CT</scp> reconstruction with Monte Carlo scatter modeling. Medical Physics, 2017, 44, 6364-6376.	3.0	53
47	3-D Monte Carlo-based scatter compensation in quantitative I-131 SPECT reconstruction. IEEE Transactions on Nuclear Science, 2006, 53, 181-188.	2.0	52
48	Low-Rank and Adaptive Sparse Signal (LASSI) Models for Highly Accelerated Dynamic Imaging. IEEE Transactions on Medical Imaging, 2017, 36, 1116-1128.	8.9	52
49	Accelerated Edge-Preserving Image Restoration Without Boundary Artifacts. IEEE Transactions on Image Processing, 2013, 22, 2019-2029.	9.8	51
50	Respiratory motion estimation from slowly rotating x-ray projections: Theory and simulation. Medical Physics, 2005, 32, 984-991.	3.0	47
51	Additive angle method for fast large-tip-angle RF pulse design in parallel excitation. Magnetic Resonance in Medicine, 2008, 59, 779-787.	3.0	44
52	Improved Low-Count Quantitative PET Reconstruction With an Iterative Neural Network. IEEE Transactions on Medical Imaging, 2020, 39, 3512-3522.	8.9	43
53	Another Look at the Fast Iterative Shrinkage/Thresholding Algorithm (FISTA). SIAM Journal on Optimization, 2018, 28, 223-250.	2.0	42
54	Accelerating Ordered Subsets Image Reconstruction for X-ray CT Using Spatially Nonuniform Optimization Transfer. IEEE Transactions on Medical Imaging, 2013, 32, 1965-1978.	8.9	41

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55	Asymptotic performance of PCA for high-dimensional heteroscedastic data. Journal of Multivariate Analysis, 2018, 167, 435-452.	1.0	41
56	Regularization Designs for Uniform Spatial Resolution and Noise Properties in Statistical Image Reconstruction for 3-D X-ray CT. IEEE Transactions on Medical Imaging, 2015, 34, 678-689.	8.9	38
57	Correction for Collimator-Detector Response in SPECT Using Point Spread Function Template. IEEE Transactions on Medical Imaging, 2013, 32, 295-305.	8.9	37
58	Fast Joint Reconstruction of Dynamic R_2^* and Field Maps in Functional MRI. IEEE Transactions on Medical Imaging, 2008, 27, 1177-1188.	8.9	35
59	Regularized reconstruction in quantitative SPECT using CT side information from hybrid imaging. Physics in Medicine and Biology, 2010, 55, 2523-2539.	3.0	34
60	Relaxed Linearized Algorithms for Faster X-Ray CT Image Reconstruction. IEEE Transactions on Medical Imaging, 2016, 35, 1090-1098.	8.9	33
61	Convolutional Analysis Operator Learning: Acceleration and Convergence. IEEE Transactions on Image Processing, 2020, 29, 2108-2122.	9.8	33
62	A deep neural network for fast and accurate scatter estimation in quantitative SPECT/CT under challenging scatter conditions. European Journal of Nuclear Medicine and Molecular Imaging, 2020, 47, 2956-2967.	6.4	33
63	Mean position tracking of respiratory motion. Medical Physics, 2008, 35, 782-792.	3.0	32
64	Exploring breathing pattern irregularity with projection-based method. Medical Physics, 2006, 33, 2491-2499.	3.0	30
65	Fast Predictions of Variance Images for Fan-Beam Transmission Tomography With Quadratic Regularization. IEEE Transactions on Medical Imaging, 2007, 26, 335-346.	8.9	30
66	Comparison of SIRT and SQS for Regularized Weighted Least Squares Image Reconstruction. IEEE Transactions on Computational Imaging, 2015, 1, 44-55.	4.4	30
67	Joint design of trajectory and RF pulses for parallel excitation. Magnetic Resonance in Medicine, 2007, 58, 598-604.	3.0	29
68	Efficient Sum of Outer Products Dictionary Learning (SOUP-DIL) and Its Application to Inverse Problems. IEEE Transactions on Computational Imaging, 2017, 3, 694-709.	4.4	29
69	Image recovery using partitioned-separable paraboloidal surrogate coordinate ascent algorithms. IEEE Transactions on Image Processing, 2002, 11, 306-317.	9.8	26
70	Iterative sorting for fourâ€dimensional CT images based on internal anatomy motion. Medical Physics, 2008, 35, 917-926.	3.0	26
71	Noise Properties of Motion-Compensated Tomographic Image Reconstruction Methods. IEEE Transactions on Medical Imaging, 2013, 32, 141-152.	8.9	26
72	Alternating Direction Method of Multiplier for Tomography With Nonlocal Regularizers. IEEE Transactions on Medical Imaging, 2014, 33, 1960-1968.	8.9	26

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73	Alternating Dual Updates Algorithm for X-ray CT Reconstruction on the GPU. IEEE Transactions on Computational Imaging, 2015, 1, 186-199.	4.4	25
74	Undersampled Phase Retrieval With Outliers. IEEE Transactions on Computational Imaging, 2015, 1, 247-258.	4.4	25
75	Mean and variance of coincidence counting with deadtime. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2002, 488, 362-374.	1.6	24
76	Adaptive Restart of the Optimized Gradient Method for Convex Optimization. Journal of Optimization Theory and Applications, 2018, 178, 240-263.	1.5	24
77	Accelerated Regularized Estimation of MR Coil Sensitivities Using Augmented Lagrangian Methods. IEEE Transactions on Medical Imaging, 2013, 32, 556-564.	8.9	23
78	Spectralâ€spatial pulse design for throughâ€plane phase precompensatory slice selection in Tâ€weighted functional MRI. Magnetic Resonance in Medicine, 2009, 61, 1137-1147.	3.0	22
79	Post-reconstruction non-local means filtering methods using CT side information for quantitative SPECT. Physics in Medicine and Biology, 2013, 58, 6225-6240.	3.0	22
80	Monte Carlo SURE-based parameter selection for parallel magnetic resonance imaging reconstruction. Magnetic Resonance in Medicine, 2014, 71, 1760-1770.	3.0	22
81	Fast Parallel MR Image Reconstruction via B1-Based, Adaptive Restart, Iterative Soft Thresholding Algorithms (BARISTA). IEEE Transactions on Medical Imaging, 2015, 34, 578-588.	8.9	22
82	Quadratic Regularization Design for 2-D CT. IEEE Transactions on Medical Imaging, 2009, 28, 645-656.	8.9	21
83	Spatial Resolution Properties of Motion-Compensated Tomographic Image Reconstruction Methods. IEEE Transactions on Medical Imaging, 2012, 31, 1413-1425.	8.9	21
84	On the Convergence Analysis of the Optimized Gradient Method. Journal of Optimization Theory and Applications, 2017, 172, 187-205.	1.5	21
85	Generalizing the Optimized Gradient Method for Smooth Convex Minimization. SIAM Journal on Optimization, 2018, 28, 1920-1950.	2.0	21
86	DECT-MULTRA: Dual-Energy CT Image Decomposition With Learned Mixed Material Models and Efficient Clustering. IEEE Transactions on Medical Imaging, 2020, 39, 1223-1234.	8.9	21
87	Low dose CT image reconstruction with learned sparsifying transform. , 2016, , .		20
88	Dictionary-Free MRI PERK: Parameter Estimation via Regression with Kernels. IEEE Transactions on Medical Imaging, 2018, 37, 2103-2114.	8.9	20
89	Edge-Preserving Image Denoising via Group Coordinate Descent on the GPU. IEEE Transactions on Image Processing, 2015, 24, 1273-1281.	9.8	19
90	Deep Convolutional Neural Network With Adversarial Training for Denoising Digital Breast Tomosynthesis Images. IEEE Transactions on Medical Imaging, 2021, 40, 1805-1816.	8.9	19

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91	Concurrent correction of geometric distortion and motion using the map-slice-to-volume method in echo-planar imaging. Magnetic Resonance Imaging, 2008, 26, 703-714.	1.8	18
92	SPULTRA: Low-Dose CT Image Reconstruction With Joint Statistical and Learned Image Models. IEEE Transactions on Medical Imaging, 2020, 39, 729-741.	8.9	18
93	Spatial Resolution and Noise Tradeoffs in Pinhole Imaging System Design: A Density Estimation Approach. Optics Express, 1998, 2, 237.	3.4	17
94	Exact distribution of edge-preserving MAP estimators for linear signal models with Gaussian measurement noise. IEEE Transactions on Image Processing, 2000, 9, 1049-1055.	9.8	17
95	Joint image reconstruction and nonrigid motion estimation with a simple penalty that encourages local invertibility. Proceedings of SPIE, 2009, , .	0.8	17
96	Fast joint design method for parallel excitation radiofrequency pulse and gradient waveforms considering offâ€resonance. Magnetic Resonance in Medicine, 2012, 68, 278-285.	3.0	17
97	Optimizing MR Scan Design for Model-Based ${T}_{1}$, ${T}_{2}$ Estimation From Steady-State Sequences. IEEE Transactions on Medical Imaging, 2017, 36, 467-477.	8.9	17
98	Detector Blur and Correlated Noise Modeling for Digital Breast Tomosynthesis Reconstruction. IEEE Transactions on Medical Imaging, 2018, 37, 116-127.	8.9	17
99	Optimizing MRFâ€ASL scan design for precise quantification of brain hemodynamics using neural network regression. Magnetic Resonance in Medicine, 2020, 83, 1979-1991.	3.0	16
100	Neural network based 3D tracking with a graphene transparent focal stack imaging system. Nature Communications, 2021, 12, 2413.	12.8	16
101	BCD-Net for Low-Dose CT Reconstruction: Acceleration, Convergence, and Generalization. Lecture Notes in Computer Science, 2019, , 31-40.	1.3	16
102	Preliminary results from intensity-based CT-SPECT fusion in I-131 anti-B1 monoclonal-antibody therapy of lymphoma. Cancer, 1997, 80, 2538-2544.	4.1	15
103	A PET reconstruction formulation that enforces non-negativity in projection space for bias reduction in Y-90 imaging. Physics in Medicine and Biology, 2018, 63, 035042.	3.0	15
104	Image Reconstruction for Limited-Angle Electron Beam X-Ray Computed Tomography With Energy-Integrating Detectors for Multiphase Flows. IEEE Transactions on Computational Imaging, 2018, 4, 112-124.	4.4	15
105	Joint Design of Excitation k-Space Trajectory and RF Pulse for Small-Tip 3D Tailored Excitation in MRI. IEEE Transactions on Medical Imaging, 2016, 35, 468-479.	8.9	14
106	DblurDoseNet: A deep residual learning network for voxel radionuclide dosimetry compensating for singleâ€photon emission computerized tomography imaging resolution. Medical Physics, 2022, 49, 1216-1230.	3.0	14
107	Non-Cartesian MRI Reconstruction With Automatic Regularization Via Monte-Carlo SURE. IEEE Transactions on Medical Imaging, 2013, 32, 1411-1422.	8.9	13
108	Deep dictionary-transform learning for image reconstruction. , 2018, , .		13

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109	A GRAPPA algorithm for arbitrary 2D/3D nonâ€€Cartesian sampling trajectories with rapid calibration. Magnetic Resonance in Medicine, 2019, 82, 1101-1112.	3.0	13
110	Efficient Dynamic Parallel MRI Reconstruction for the Low-Rank Plus Sparse Model. IEEE Transactions on Computational Imaging, 2019, 5, 17-26.	4.4	13
111	Optimization transfer approach to joint registration / reconstruction for motion-compensated image reconstruction. , 2010, , .		12
112	Convolutional Analysis Operator Learning: Dependence on Training Data. IEEE Signal Processing Letters, 2019, 26, 1137-1141.	3.6	12
113	Incorporation of system resolution compensation (RC) in the ordered-subset transmission (OSTR) algorithm for transmission imaging in SPECT. IEEE Transactions on Medical Imaging, 2006, 25, 941-949.	8.9	11
114	Model-based image reconstruction for dual-energy X-ray CT with fast KVP switching. , 2009, , .		11
115	Joint reconstruction of Stokes images from polarimetric measurements. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2009, 26, 962.	1.5	11
116	Optimizing the Efficiency of First-Order Methods for Decreasing the Gradient of Smooth Convex Functions. Journal of Optimization Theory and Applications, 2021, 188, 192-219.	1.5	11
117	High-Resolution Oscillating Steady-State fMRI Using Patch-Tensor Low-Rank Reconstruction. IEEE Transactions on Medical Imaging, 2020, 39, 4357-4368.	8.9	11
118	Benefits of Position-Sensitive Detectors for Radioactive Source Detection. IEEE Transactions on Signal Processing, 2010, 58, 4473-4483.	5.3	10
119	Non-local means methods using CT side information for I-131 SPECT image reconstruction. , 2012, , .		10
120	Statistical X-ray CT reconstruction using a splitting-based iterative algorithm with orthonormal wavelets. , 2012, , .		10
121	Fast Variance Prediction for Iteratively Reconstructed CT Images With Locally Quadratic Regularization. IEEE Transactions on Medical Imaging, 2017, 36, 17-26.	8.9	10
122	Low-Rank Plus Sparse Tensor Models for Light-field Reconstruction from Focal Stack Data. , 2018, , .		10
123	Effect of source blur on digital breast tomosynthesis reconstruction. Medical Physics, 2019, 46, 5572-5592.	3.0	10
124	Discontinuity preserving regularization for modeling sliding in medical image registration. , 2008, , .		9
125	Regularized Image Reconstruction Algorithms for Dual-Isotope Myocardial Perfusion SPECT (MPS) Imaging Using a Cross-Tracer Prior. IEEE Transactions on Medical Imaging, 2011, 30, 1169-1183.	8.9	9
126	Steadyâ€€state functional MRI using spoiled smallâ€€tip fast recovery imaging. Magnetic Resonance in Medicine, 2015, 73, 536-543.	3.0	9

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127	Y-90 SPECT ML image reconstruction with a new model for tissue-dependent bremsstrahlung production using CT information: a proof-of-concept study. Physics in Medicine and Biology, 2018, 63, 115001.	3.0	9
128	Simplified Statistical Image Reconstruction for X-ray CT With Beam-Hardening Artifact Compensation. IEEE Transactions on Medical Imaging, 2020, 39, 111-118.	8.9	9
129	HePPCAT: Probabilistic PCA for Data With Heteroscedastic Noise. IEEE Transactions on Signal Processing, 2021, 69, 4819-4834.	5.3	9
130	Imaging atomic-scale chemistry from fused multi-modal electron microscopy. Npj Computational Materials, 2022, 8, .	8.7	9
131	Performance of a deep learningâ€based CT image denoising method: Generalizability over dose, reconstruction kernel, and slice thickness. Medical Physics, 2022, 49, 836-853.	3.0	9
132	Accuracy estimation for projectionâ€toâ€volume targeting during rotational therapy: A feasibility study. Medical Physics, 2010, 37, 2480-2490.	3.0	8
133	Regularized MR coil sensitivity estimation using augmented Lagrangian methods. , 2012, , .		8
134	Strategies for improved 3D smallâ€tip fast recovery imaging. Magnetic Resonance in Medicine, 2014, 72, 389-398.	3.0	8
135	An optimized first-order method for image restoration. , 2015, , .		8
136	Estrogen depletion and drug treatment alter the microstructure of type I collagen in bone. Bone Reports, 2016, 5, 243-251.	0.4	8
137	Convergent convolutional dictionary learning using Adaptive Contrast Enhancement (CDL-ACE): Application of CDL to image denoising. , 2017, , .		8
138	Application of trained Deep BCD-Net to iterative low-count PET image reconstruction. , 2018, , .		8
139	Joint Design of RF and Gradient Waveforms via Auto-differentiation for 3D Tailored Excitation in MRI. IEEE Transactions on Medical Imaging, 2021, 40, 3305-3314.	8.9	8
140	Iterative image reconstruction for dual-energy X-ray CT using regularized material sinogram estimates. , 2011, , .		7
141	Efficient learning of dictionaries with low-rank atoms. , 2016, , .		7
142	Motion Robust Magnetic Susceptibility and Field Inhomogeneity Estimation Using Regularized Image Restoration Techniques for fMRI. Lecture Notes in Computer Science, 2008, 11, 991-998.	1.3	7
143	Deep convolutional neural network denoising for digital breast tomosynthesis reconstruction. , 2020, , .		7
144	Unbiased Filtered Back-Projection in $4pi$ Compton Imaging With 3D Position Sensitive Detectors. IEEE Transactions on Nuclear Science, 2016, 63, 2750-2756.	2.0	6

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145	Towards a theoretical analysis of PCA for heteroscedastic data. , 2016, , .		6
146	Efficient, Convergent SENSE MRI Reconstruction for Nonperiodic Boundary Conditions via Tridiagonal Solvers. IEEE Transactions on Computational Imaging, 2017, 3, 11-21.	4.4	6
147	Asymptotic Source Detection Performance of Gamma-Ray Imaging Systems Under Model Mismatch. IEEE Transactions on Signal Processing, 2011, 59, 5141-5151.	5.3	5
148	Accelerated ordered-subsets algorithm based on separable quadratic surrogates for regularized image reconstruction in X-ray CT. , 2011, , .		5
149	Model-based image reconstruction of chemiluminescence using a plenoptic 2.0 camera. , 2015, , .		5
150	Balanced SSFPâ€like steadyâ€state imaging using smallâ€tip fast recovery with a spectral prewinding pulse. Magnetic Resonance in Medicine, 2016, 75, 839-844.	3.0	5
151	Fast Spatial Resolution Analysis of Quadratic Penalized Least-Squares Image Reconstruction With Separate Real and Imaginary Roughness Penalty: Application to fMRI. IEEE Transactions on Medical Imaging, 2018, 37, 604-614.	8.9	5
152	Online Adaptive Image Reconstruction (OnAIR) Using Dictionary Models. IEEE Transactions on Computational Imaging, 2020, 6, 153-166.	4.4	5
153	Algorithms and Analyses for Joint Spectral Image Reconstruction in Y-90 Bremsstrahlung SPECT. IEEE Transactions on Medical Imaging, 2020, 39, 1369-1379.	8.9	5
154	Myelin water fraction estimation using smallâ€tip fast recovery MRI. Magnetic Resonance in Medicine, 2020, 84, 1977-1990.	3.0	5
155	Spatial resolution and noise properties of regularized motion-compensated image reconstruction. , 2009, , .		4
156	Model-based reconstruction of spectral and spatial source distribution from objects with known motion. , 2010, , .		4
157	Fast variance computation for quadratically penalized iterative reconstruction of 3D axial CT images. , 2012, , .		4
158	Image restoration using non-circulant shift-invariant system models. , 2012, , .		4
159	Ordered subsets with momentum for accelerated X-ray CT image reconstruction. , 2013, , .		4
160	Phase retrieval of sparse signals using optimization transfer and ADMM. , 2014, , .		4
161	Joint spectral image reconstruction for Y-90 SPECT with multi-window acquisition. , 2015, , .		4
162	Simultaneous fat saturation and magnetization transfer contrast imaging with steadyâ€state incoherent sequences. Magnetic Resonance in Medicine, 2015, 74, 739-746.	3.0	4

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163	Segmented separable footprint projector for digital breast tomosynthesis and its application for subpixel reconstruction. Medical Physics, 2017, 44, 986-1001.	3.0	4
164	Comments on "The convergence of mean field procedures for MRF's. IEEE Transactions on Image Processing, 1998, 7, 917.	9.8	3
165	Fast kVp-switching dual energy CT for PET attenuation correction. , 2009, , .		3
166	Joint estimation of image and fieldmap in parallel MRI using single-shot acquisitions. , 2010, , .		3
167	Accelerated noncartesian sense reconstruction using a majorize-minimize algorithm combining variable-splitting. , 2013, , .		3
168	Rapid innerâ€volume imaging in the steadyâ€state with 3D selective excitation and smallâ€tip fast recovery imaging. Magnetic Resonance in Medicine, 2016, 76, 1217-1223.	3.0	3
169	Convolutional analysis operator learning: Application to sparse-view CT : (Invited Paper). , 2018, , .		3
170	Fast and convergent iterative image recovery using trained convolutional neural networks. , 2018, , .		3
171	Incorporating Handcrafted Filters in Convolutional Analysis Operator Learning for Ill-Posed Inverse Problems. , 2019, , .		3
172	Ordered subsets acceleration using relaxed momentum for X-ray CT image reconstruction. , 2013, , .		2
173	Model-based estimation of T2 maps with dual-echo steady-state MR imaging. , 2014, , .		2
174	Accelerated dual gradient-based methods for total variation image denoising/deblurring problems. , 2017, , .		2
175	On Parameter Selection for Joint Spectral Reconstruction in Y90 SPECT. , 2018, , .		2
176	Accelerated methods for low-rank plus sparse image reconstruction. , 2018, , .		2
177	Probabilistic PCA for Heteroscedastic Data. , 2019, , .		2
178	Time of flight PET reconstruction using nonuniform update for regional recovery uniformity. Medical Physics, 2019, 46, 649-664.	3.0	2
179	Blind Primed Supervised (BLIPS) Learning for MR Image Reconstruction. IEEE Transactions on Medical Imaging, 2021, 40, 3113-3124.	8.9	2
180	Filtered Backprojection in Compton Imaging Using a Spherical Harmonic Wiener Filter With Pixelated CdZnTe. IEEE Transactions on Nuclear Science, 2021, 68, 211-219.	2.0	2

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181	Motivating Bilevel Approaches To Filter Learning: A Case Study. , 2021, , .		2
182	Alternating minimization approach for multi-frame image reconstruction. , 2012, , .		1
183	Source Detection Performance Prediction for a CdZnTe Array. IEEE Transactions on Nuclear Science, 2013, 60, 204-212.	2.0	1
184	Adaptive sparse modeling and shifted-poisson likelihood based approach for low-dosect image reconstruction. , 2017, , .		1
185	Blind Unitary Transform Learning for Inverse Problems in Light-Field Imaging. , 2019, , .		1
186	Efficient Regularized Field Map Estimation in 3D MRI. IEEE Transactions on Computational Imaging, 2020, 6, 1451-1458.	4.4	1
187	Improved Localization Precision and Angular Resolution of a Cylindrical, Time-Encoded Imaging System From Adaptive Detector Movements. IEEE Transactions on Nuclear Science, 2021, 68, 410-425.	2.0	1
188	Deep convolutional neural network regularized digital breast tomosynthesis reconstruction with detector blur and correlated noise modeling. , 2022, , .		1
189	Focal Stack Based Image Forgery Localization. Applied Optics, 0, , .	1.8	1
190	Dynamic MR image and fieldmap joint reconstruction accounting for through-plane fieldmap gradients. , 2011, , .		0
191	Detection performance prediction for CdZnTe array. , 2011, , .		0
192	Model-Based Reconstruction of Spectral and Spatial Source Distribution for Objects With Known Motion. IEEE Transactions on Nuclear Science, 2013, 60, 3981-3989.	2.0	0
193	Motion-compensated image reconstruction for cardiac CT with sinogram-based motion estimation. , 2013, , .		0
194	Fast MR image reconstruction with orthogonal wavelet regularization via shift-variant shrinkage. , 2014, , .		0
195	Regularized estimation of Bloch-Siegert |B<inf>1</inf>⁺| maps in MRI. , 2014, , .		0
196	Strategies for improved 3D small-tip fast recovery imaging. Magnetic Resonance in Medicine, 2014, 72, spcone-spcone.	3.0	0
197	Reducing Bias in Y-90 PET Images by Enforcing Non-Negativity in Projection Space. , 2017, , .		0
198	Design of spectralâ€spatial phase prewinding pulses and their use in smallâ€tip fast recovery steadyâ€state imaging. Magnetic Resonance in Medicine, 2018, 79, 1377-1386.	3.0	0

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