Jeffrey A Fessler

List of Publications by Year
in descending order

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	Imaging atomic-scale chemistry from fused multi-modal electron microscopy. Npj Computational Materials, 2022, 8, .	8.7	9
2	Performance of a deep learning–based CT image denoising method: Generalizability over dose, reconstruction kernel, and slice thickness. Medical Physics, 2022, 49, 836-853.	3.0	9
3	Region of Interest Image Reconstruction for Compton Imaging Using 3-D Position Sensing CdZnTe. IEEE Transactions on Nuclear Science, 2022, 69, 965-975.	2.0	0
4	Simple beam-hardening correction method (2DCalBH) based on 2D linearization. Physics in Medicine and Biology, 2022, , .	3.0	0
5	Deep convolutional neural network regularized digital breast tomosynthesis reconstruction with detector blur and correlated noise modeling. , 2022, , .		1
6	DblurDoseNet: A deep residual learning network for voxel radionuclide dosimetry compensating for single–photon emission computerized tomography imaging resolution. Medical Physics, 2022, 49, 1216-1230.	3.0	14
7	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
8	Blind Primed Supervised (BLIPS) Learning for MR Image Reconstruction. IEEE Transactions on Medical Imaging, 2021, 40, 3113-3124.	8.9	2
9	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
10	Cramér-Rao Bound Evaluations of Compton Imager Designs for Proton Beam Range Verification. IEEE Transactions on Radiation and Plasma Medical Sciences, 2021, , 1-1.	3.7	0
11	HePPCAT: Probabilistic PCA for Data With Heteroscedastic Noise. IEEE Transactions on Signal Processing, 2021, 69, 4819-4834.	5.3	9
12	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
13	Neural network based 3D tracking with a graphene transparent focal stack imaging system. Nature Communications, 2021, 12, 2413.	12.8	16
14	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
15	Jigsaw: A Slice-and-Dice Approach to Non-uniform FFT Acceleration for MRI Image Reconstruction. , 2021, , .		0
16	Motivating Bilevel Approaches To Filter Learning: A Case Study. , 2021, , .		2
17	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
18	Limited-view Cone Beam CT reconstruction using 3D Patch-based Supervised and Adversarial Learning. , 2021, , .		0

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19	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
20	Image Reconstruction: From Sparsity to Data-Adaptive Methods and Machine Learning. Proceedings of the IEEE, 2020, 108, 86-109.	21.3	187
21	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
22	Online Adaptive Image Reconstruction (OnAIR) Using Dictionary Models. IEEE Transactions on Computational Imaging, 2020, 6, 153-166.	4.4	5
23	Convolutional Analysis Operator Learning: Acceleration and Convergence. IEEE Transactions on Image Processing, 2020, 29, 2108-2122.	9.8	33
24	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
25	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
26	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
27	Efficient Regularized Field Map Estimation in 3D MRI. IEEE Transactions on Computational Imaging, 2020, 6, 1451-1458.	4.4	1
28	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
29	Improved Low-Count Quantitative PET Reconstruction With an Iterative Neural Network. IEEE Transactions on Medical Imaging, 2020, 39, 3512-3522.	8.9	43
30	Optimization Methods for Magnetic Resonance Image Reconstruction: Key Models and Optimization Algorithms. IEEE Signal Processing Magazine, 2020, 37, 33-40.	5.6	109
31	Ranging and light field imaging with transparent photodetectors. Nature Photonics, 2020, 14, 143-148.	31.4	80
32	Myelin water fraction estimation using smallâ€tip fast recovery MRI. Magnetic Resonance in Medicine, 2020, 84, 1977-1990.	3.0	5
33	Deep convolutional neural network denoising for digital breast tomosynthesis reconstruction. , 2020, , .		7
34	High-Resolution Oscillating Steady-State fMRI Using Patch-Tensor Low-Rank Reconstruction. IEEE Transactions on Medical Imaging, 2020, 39, 4357-4368.	8.9	11
35	Convolutional Analysis Operator Learning: Dependence on Training Data. IEEE Signal Processing Letters, 2019, 26, 1137-1141.	3.6	12
36	Effect of source blur on digital breast tomosynthesis reconstruction. Medical Physics, 2019, 46, 5572-5592.	3.0	10

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37	A GRAPPA algorithm for arbitrary 2D/3D non–Cartesian sampling trajectories with rapid calibration. Magnetic Resonance in Medicine, 2019, 82, 1101-1112.	3.0	13
38	Blind Unitary Transform Learning for Inverse Problems in Light-Field Imaging. , 2019, , .		1
39	Probabilistic PCA for Heteroscedastic Data. , 2019, , .		2
40	SPECT/CT scatter estimation using a deep convolutional neural network: implementation in Y-90 imaging. , 2019, , .		0
41	Incorporating Handcrafted Filters in Convolutional Analysis Operator Learning for Ill-Posed Inverse Problems. , 2019, , .		3
42	Efficient Dynamic Parallel MRI Reconstruction for the Low-Rank Plus Sparse Model. IEEE Transactions on Computational Imaging, 2019, 5, 17-26.	4.4	13
43	Time of flight PET reconstruction using nonuniform update for regional recovery uniformity. Medical Physics, 2019, 46, 649-664.	3.0	2
44	BCD-Net for Low-Dose CT Reconstruction: Acceleration, Convergence, and Generalization. Lecture Notes in Computer Science, 2019, , 31-40.	1.3	16
45	Convolutional Dictionary Learning: Acceleration and Convergence. IEEE Transactions on Image Processing, 2018, 27, 1697-1712.	9.8	102
46	Another Look at the Fast Iterative Shrinkage/Thresholding Algorithm (FISTA). SIAM Journal on Optimization, 2018, 28, 223-250.	2.0	42
47	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
48	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
49	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
50	Detector Blur and Correlated Noise Modeling for Digital Breast Tomosynthesis Reconstruction. IEEE Transactions on Medical Imaging, 2018, 37, 116-127.	8.9	17
51	Design of spectral–spatial phase prewinding pulses and their use in small–tip fast recovery steady–state imaging. Magnetic Resonance in Medicine, 2018, 79, 1377-1386.	3.0	0
52	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
53	Convolutional analysis operator learning: Application to sparse-view CT : (Invited Paper). , 2018, , .		3
54	Fast and convergent iterative image recovery using trained convolutional neural networks. , 2018, , .		3

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55	LEARNED MIXED MATERIAL MODELS FOR EFFICIENT CLUSTERING BASED DUAL-ENERGY CT IMAGE DECOMPOSITION. , 2018, , .		0
56	On Parameter Selection for Joint Spectral Reconstruction in Y90 SPECT. , 2018, , .		2
57	Application of trained Deep BCD-Net to iterative low-count PET image reconstruction. , 2018, , .		8
58	Deep BCD-Net Using Identical Encoding-Decoding CNN Structures for Iterative Image Recovery. , 2018, , .		80
59	Low-Rank Plus Sparse Tensor Models for Light-field Reconstruction from Focal Stack Data. , 2018, , .		10
60	Image Reconstruction is a New Frontier of Machine Learning. IEEE Transactions on Medical Imaging, 2018, 37, 1289-1296.	8.9	366
61	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
62	Accelerated methods for low-rank plus sparse image reconstruction. , 2018, , .		2
63	Asymptotic performance of PCA for high-dimensional heteroscedastic data. Journal of Multivariate Analysis, 2018, 167, 435-452.	1.0	41
64	Generalizing the Optimized Gradient Method for Smooth Convex Minimization. SIAM Journal on Optimization, 2018, 28, 1920-1950.	2.0	21
65	Adaptive Restart of the Optimized Gradient Method for Convex Optimization. Journal of Optimization Theory and Applications, 2018, 178, 240-263.	1.5	24
66	Dictionary-Free MRI PERK: Parameter Estimation via Regression with Kernels. IEEE Transactions on Medical Imaging, 2018, 37, 2103-2114.	8.9	20
67	Deep dictionary-transform learning for image reconstruction. , 2018, , .		13
68	Segmented separable footprint projector for digital breast tomosynthesis and its application for subpixel reconstruction. Medical Physics, 2017, 44, 986-1001.	3.0	4
69	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
70	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
71	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
72	Convergent convolutional dictionary learning using Adaptive Contrast Enhancement (CDL-ACE): Application of CDL to image denoising. , 2017, , .		8

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73	Improved quantitative ^{90}Y bremsstrahlung SPECT/CT reconstruction with Monte Carlo scatter modeling. Medical Physics, 2017, 44, 6364-6376.	3.0	53
74	Accelerated dual gradient-based methods for total variation image denoising/deblurring problems. , 2017, , .		2
75	Efficient, Convergent SENSE MRI Reconstruction for Nonperiodic Boundary Conditions via Tridiagonal Solvers. IEEE Transactions on Computational Imaging, 2017, 3, 11-21.	4.4	6
76	Fast Variance Prediction for Iteratively Reconstructed CT Images With Locally Quadratic Regularization. IEEE Transactions on Medical Imaging, 2017, 36, 17-26.	8.9	10
77	On the Convergence Analysis of the Optimized Gradient Method. Journal of Optimization Theory and Applications, 2017, 172, 187-205.	1.5	21
78	Adaptive sparse modeling and shifted-poisson likelihood based approach for low-dosect image reconstruction. , 2017, , .		1
79	Reducing Bias in Y-90 PET Images by Enforcing Non-Negativity in Projection Space. , 2017, , .		0
80	Efficient learning of dictionaries with low-rank atoms. , 2016, , .		7
81	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
82	Relaxed Linearized Algorithms for Faster X-Ray CT Image Reconstruction. IEEE Transactions on Medical Imaging, 2016, 35, 1090-1098.	8.9	33
83	Estrogen depletion and drug treatment alter the microstructure of type I collagen in bone. Bone Reports, 2016, 5, 243-251.	0.4	8
84	Low dose CT image reconstruction with learned sparsifying transform. , 2016, , .		20
85	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
86	Towards a theoretical analysis of PCA for heteroscedastic data. , 2016, , .		6
87	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
88	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
89	Optimized first-order methods for smooth convex minimization. Mathematical Programming, 2016, 159, 81-107.	2.4	81
90	Joint spectral image reconstruction for Y-90 SPECT with multi-window acquisition. , 2015, , .		4

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91	Simultaneous fat saturation and magnetization transfer contrast imaging with steady‐state incoherent sequences. Magnetic Resonance in Medicine, 2015, 74, 739-746.	3.0	4
92	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
93	Model-based image reconstruction of chemiluminescence using a plenoptic 2.0 camera. , 2015, , .		5
94	Alternating Dual Updates Algorithm for X-ray CT Reconstruction on the GPU. IEEE Transactions on Computational Imaging, 2015, 1, 186-199.	4.4	25
95	Undersampled Phase Retrieval With Outliers. IEEE Transactions on Computational Imaging, 2015, 1, 247-258.	4.4	25
96	An optimized first-order method for image restoration. , 2015, , .		8
97	Steady‐state functional MRI using spoiled small‐tip fast recovery imaging. Magnetic Resonance in Medicine, 2015, 73, 536-543.	3.0	9
98	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
99	Edge-Preserving Image Denoising via Group Coordinate Descent on the GPU. IEEE Transactions on Image Processing, 2015, 24, 1273-1281.	9.8	19
100	Combining Ordered Subsets and Momentum for Accelerated X-Ray CT Image Reconstruction. IEEE Transactions on Medical Imaging, 2015, 34, 167-178.	8.9	113
101	Comparison of SIRT and SQS for Regularized Weighted Least Squares Image Reconstruction. IEEE Transactions on Computational Imaging, 2015, 1, 44-55.	4.4	30
102	Fast MR image reconstruction with orthogonal wavelet regularization via shift-variant shrinkage. , 2014, , .		0
103	Phase retrieval of sparse signals using optimization transfer and ADMM. , 2014, , .		4
104	Model-based estimation of T2 maps with dual-echo steady-state MR imaging. , 2014, , .		2
105	Regularized estimation of Bloch-Siegert $\|B_1^+\|$ maps in MRI. , 2014, , .		0
106	Strategies for improved 3D small‐tip fast recovery imaging. Magnetic Resonance in Medicine, 2014, 72, 389-398.	3.0	8
107	Strategies for improved 3D small-tip fast recovery imaging. Magnetic Resonance in Medicine, 2014, 72, spcone-spcone.	3.0	0
108	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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109	Multi-Material Decomposition Using Statistical Image Reconstruction for Spectral CT. IEEE Transactions on Medical Imaging, 2014, 33, 1614-1626.	8.9	173
110	Monte Carlo SURE-based parameter selection for parallel magnetic resonance imaging reconstruction. Magnetic Resonance in Medicine, 2014, 71, 1760-1770.	3.0	22
111	Accelerated Edge-Preserving Image Restoration Without Boundary Artifacts. IEEE Transactions on Image Processing, 2013, 22, 2019-2029.	9.8	51
112	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
113	Source Detection Performance Prediction for a CdZnTe Array. IEEE Transactions on Nuclear Science, 2013, 60, 204-212.	2.0	1
114	Accelerated Regularized Estimation of MR Coil Sensitivities Using Augmented Lagrangian Methods. IEEE Transactions on Medical Imaging, 2013, 32, 556-564.	8.9	23
115	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
116	Correction for Collimator-Detector Response in SPECT Using Point Spread Function Template. IEEE Transactions on Medical Imaging, 2013, 32, 295-305.	8.9	37
117	Noise Properties of Motion-Compensated Tomographic Image Reconstruction Methods. IEEE Transactions on Medical Imaging, 2013, 32, 141-152.	8.9	26
118	Modelling the physics in the iterative reconstruction for transmission computed tomography. Physics in Medicine and Biology, 2013, 58, R63-R96.	3.0	163
119	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
120	Ordered subsets with momentum for accelerated X-ray CT image reconstruction. , 2013, , .		4
121	Motion-compensated image reconstruction for cardiac CT with sinogram-based motion estimation. , 2013, , .		0
122	Ordered subsets acceleration using relaxed momentum for X-ray CT image reconstruction. , 2013, , .		2
123	Accelerated noncartesian sense reconstruction using a majorize-minimize algorithm combining variable-splitting. , 2013, , .		3
124	Non-Cartesian MRI Reconstruction With Automatic Regularization Via Monte-Carlo SURE. IEEE Transactions on Medical Imaging, 2013, 32, 1411-1422.	8.9	13
125	Non-local means methods using CT side information for I-131 SPECT image reconstruction. , 2012, , .		10
126	Fast variance computation for quadratically penalized iterative reconstruction of 3D axial CT images. , 2012, , .		4

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127	Image restoration using non-circulant shift-invariant system models. , 2012, , .		4
128	Statistical X-ray CT reconstruction using a splitting-based iterative algorithm with orthonormal wavelets. , 2012, , .		10
129	Spatial Resolution Properties of Motion-Compensated Tomographic Image Reconstruction Methods. IEEE Transactions on Medical Imaging, 2012, 31, 1413-1425.	8.9	21
130	Separate Magnitude and Phase Regularization via Compressed Sensing. IEEE Transactions on Medical Imaging, 2012, 31, 1713-1723.	8.9	87
131	Alternating minimization approach for multi-frame image reconstruction. , 2012, , .		1
132	Regularized MR coil sensitivity estimation using augmented Lagrangian methods. , 2012, , .		8
133	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
134	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
135	A Splitting-Based Iterative Algorithm for Accelerated Statistical X-Ray CT Reconstruction. IEEE Transactions on Medical Imaging, 2012, 31, 677-688.	8.9	208
136	Dynamic MR image and fieldmap joint reconstruction accounting for through-plane fieldmap gradients. , 2011, , .		0
137	Iterative image reconstruction for dual-energy X-ray CT using regularized material sinogram estimates. , 2011, , .		7
138	Asymptotic Source Detection Performance of Gamma-Ray Imaging Systems Under Model Mismatch. IEEE Transactions on Signal Processing, 2011, 59, 5141-5151.	5.3	5
139	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
140	Parallel MR Image Reconstruction Using Augmented Lagrangian Methods. IEEE Transactions on Medical Imaging, 2011, 30, 694-706.	8.9	186
141	Accelerated ordered-subsets algorithm based on separable quadratic surrogates for regularized image reconstruction in X-ray CT. , 2011, , .		5
142	Detection performance prediction for CdZnTe array. , 2011, , .		0
143	Accuracy estimation for projectionâ€toâ€volume targeting during rotational therapy: A feasibility study. Medical Physics, 2010, 37, 2480-2490.	3.0	8
144	3D Forward and Back-Projection for X-Ray CT Using Separable Footprints. IEEE Transactions on Medical Imaging, 2010, 29, 1839-1850.	8.9	182

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145	Regularized reconstruction in quantitative SPECT using CT side information from hybrid imaging. Physics in Medicine and Biology, 2010, 55, 2523-2539.	3.0	34
146	Optimization transfer approach to joint registration / reconstruction for motion-compensated image reconstruction. , 2010, , .		12
147	Joint estimation of image and fieldmap in parallel MRI using single-shot acquisitions. , 2010, , .		3
148	Model-based reconstruction of spectral and spatial source distribution from objects with known motion. , 2010, , .		4
149	Model-Based Image Reconstruction for MRI. IEEE Signal Processing Magazine, 2010, 27, 81-89.	5.6	234
150	Benefits of Position-Sensitive Detectors for Radioactive Source Detection. IEEE Transactions on Signal Processing, 2010, 58, 4473-4483.	5.3	10
151	Fast kVp-switching dual energy CT for PET attenuation correction. , 2009, , .		3
152	Model-based image reconstruction for dual-energy X-ray CT with fast KVP switching. , 2009, , .		11
153	Spatial resolution and noise properties of regularized motion-compensated image reconstruction. , 2009, , .		4
154	Quadratic Regularization Design for 2-D CT. IEEE Transactions on Medical Imaging, 2009, 28, 645-656.	8.9	21
155	Statistical Sinogram Restoration in Dual-Energy CT for PET Attenuation Correction. IEEE Transactions on Medical Imaging, 2009, 28, 1688-1702.	8.9	55
156	Fast Large-Tip-Angle Multidimensional and Parallel RF Pulse Design in MRI. IEEE Transactions on Medical Imaging, 2009, 28, 1548-1559.	8.9	58
157	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
158	Spectralâ€spatial pulse design for throughâ€plane phase precompensatory slice selection in <i>T</i>â€weighted functional MRI. Magnetic Resonance in Medicine, 2009, 61, 1137-1147.	3.0	22
159	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
160	Reducing between scanner differences in multi-center PET studies. NeuroImage, 2009, 46, 154-159.	4.2	192
161	Joint image reconstruction and nonrigid motion estimation with a simple penalty that encourages local invertibility. Proceedings of SPIE, 2009, , .	0.8	17
162	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

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163	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
164	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
165	Regularized Field Map Estimation in MRI. IEEE Transactions on Medical Imaging, 2008, 27, 1484-1494.	8.9	98
166	Discontinuity preserving regularization for modeling sliding in medical image registration. , 2008, , .		9
167	Iterative sorting for four‐dimensional CT images based on internal anatomy motion. Medical Physics, 2008, 35, 917-926.	3.0	26
168	Mean position tracking of respiratory motion. Medical Physics, 2008, 35, 782-792.	3.0	32
169	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
170	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
171	An Expanded Theoretical Treatment of Iteration-Dependent Majorize-Minimize Algorithms. IEEE Transactions on Image Processing, 2007, 16, 2411-2422.	9.8	93
172	Estimating 3-D Respiratory Motion From Orbiting Views by Tomographic Image Registration. IEEE Transactions on Medical Imaging, 2007, 26, 153-163.	8.9	79
173	Joint design of trajectory and RF pulses for parallel excitation. Magnetic Resonance in Medicine, 2007, 58, 598-604.	3.0	29
174	On NUFFT-based gridding for non-Cartesian MRI. Journal of Magnetic Resonance, 2007, 188, 191-195.	2.1	179
175	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
176	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
177	Spatial domain method for the design of RF pulses in multicoil parallel excitation. Magnetic Resonance in Medicine, 2006, 56, 620-629.	3.0	282
178	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
179	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
180	Exploring breathing pattern irregularity with projection-based method. Medical Physics, 2006, 33, 2491-2499.	3.0	30

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181	Iterative RF pulse design for multidimensional, small-tip-angle selective excitation. Magnetic Resonance in Medicine, 2005, 54, 908-917.	3.0	73
182	Respiratory motion estimation from slowly rotating x-ray projections: Theory and simulation. Medical Physics, 2005, 32, 984-991.	3.0	47
183	Conjugate phase MRI reconstruction with spatially variant sample density correction. IEEE Transactions on Medical Imaging, 2005, 24, 325-336.	8.9	82
184	Dynamic field map estimation using a spiral-in/spiral-out acquisition. Magnetic Resonance in Medicine, 2004, 51, 1194-1204.	3.0	86
185	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
186	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
187	Fast, iterative image reconstruction for MRI in the presence of field inhomogeneities. IEEE Transactions on Medical Imaging, 2003, 22, 178-188.	8.9	323
188	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
189	Globally convergent image reconstruction for emission tomography using relaxed ordered subsets algorithms. IEEE Transactions on Medical Imaging, 2003, 22, 613-626.	8.9	256
190	Efficient and accurate likelihood for iterative image reconstruction in x-ray computed tomography. , 2003, , .		70
191	Statistical image reconstruction for polyenergetic X-ray computed tomography. IEEE Transactions on Medical Imaging, 2002, 21, 89-99.	8.9	531
192	Maximum-likelihood dual-energy tomographic image reconstruction. , 2002, 4684, 38.		61
193	Image recovery using partitioned-separable paraboloidal surrogate coordinate ascent algorithms. IEEE Transactions on Image Processing, 2002, 11, 306-317.	9.8	26
194	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
195	A feasibility study of mutual information based setup error estimation for radiotherapy. Medical Physics, 2001, 28, 2507-2517.	3.0	57
196	Mean and variance of single photon counting with deadtime. Physics in Medicine and Biology, 2000, 45, 2043-2056.	3.0	67
197	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
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