

# Jong Chul Ye

## List of Publications by Year in descending order

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Version: 2024-02-01

201  
papers

10,950  
citations

38660

50  
h-index

33814

99  
g-index

203  
all docs

203  
docs citations

203  
times ranked

9334  
citing authors

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | NIRS-SPM: Statistical parametric mapping for near-infrared spectroscopy. <i>NeuroImage</i> , 2009, 44, 428-447.   | 2.1  | 910       |
| 2  | Deep Learning COVID-19 Features on CXR Using Limited Training Data Sets. <i>IEEE Transactions on Medical Imaging</i> , 2020, 39, 2688-2700.   | 5.4  | 653       |
| 3  | A deep convolutional neural network using directional wavelets for low-dose X-ray CT reconstruction. <i>Medical Physics</i> , 2017, 44, e360-e375.  | 1.6  | 561       |
| 4  | FOCUSS: A general compressed sensing framework for high resolution dynamic MRI. <i>Magnetic Resonance in Medicine</i> , 2009, 61, 103-116.  | 1.9  | 536       |
| 5  | Framing U-Net via Deep Convolutional Framelets: Application to Sparse-View CT. <i>IEEE Transactions on Medical Imaging</i> , 2018, 37, 1418-1429.   | 5.4  | 388       |
| 6  | Statistical analysis of fNIRS data: A comprehensive review. <i>NeuroImage</i> , 2014, 85, 72-91.  | 2.1  | 318       |
| 7  | Compressive MUSIC: Revisiting the Link Between Compressive Sensing and Array Signal Processing. <i>IEEE Transactions on Information Theory</i> , 2012, 58, 278-301.                       | 1.5  | 292       |
| 8  | Deep Convolutional Framelets: A General Deep Learning Framework for Inverse Problems. <i>SIAM Journal on Imaging Sciences</i> , 2018, 11, 991-1048.                                       | 1.3  | 243       |
| 9  | Wavelet minimum description length detrending for near-infrared spectroscopy. <i>Journal of Biomedical Optics</i> , 2009, 14, 034004.   | 1.4  | 241       |
| 10 | Improved tBLAST and tSENSE using FOCUSS. <i>Physics in Medicine and Biology</i> , 2007, 52, 3201-3226.  | 1.6  | 235       |
| 11 | Deep learning for tomographic image reconstruction. <i>Nature Machine Intelligence</i> , 2020, 2, 737-748.  | 8.3  | 233       |
| 12 | Comparative study of iterative reconstruction algorithms for missing cone problems in optical diffraction tomography. <i>Optics Express</i> , 2015, 23, 16933.                            | 1.7  | 226       |
| 13 | Deep Convolutional Framelet Denosing for Low-Dose CT via Wavelet Residual Network. <i>IEEE Transactions on Medical Imaging</i> , 2018, 37, 1358-1369.                                     | 5.4  | 216       |
| 14 | Deep Residual Learning for Accelerated MRI Using Magnitude and Phase Networks. <i>IEEE Transactions on Biomedical Engineering</i> , 2018, 65, 1985-1995.                                  | 2.5  | 212       |
| 15 | Deep learning with domain adaptation for accelerated projection reconstruction MR. <i>Magnetic Resonance in Medicine</i> , 2018, 80, 1189-1205.   | 1.9  | 204       |
| 16 | k-Space Deep Learning for Accelerated MRI. <i>IEEE Transactions on Medical Imaging</i> , 2020, 39, 377-386.   | 5.4  | 193       |
| 17 | Image Reconstruction: From Sparsity to Data-Adaptive Methods and Machine Learning. <i>Proceedings of the IEEE</i> , 2020, 108, 86-109.  | 16.4 | 187       |
| 18 | A General Framework for Compressed Sensing and Parallel MRI Using Annihilating Filter Based Low-Rank Hankel Matrix. <i>IEEE Transactions on Computational Imaging</i> , 2016, 2, 480-495. | 2.6  | 175       |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 19 | Real-time visualization of 3-D dynamic microscopic objects using optical diffraction tomography. Optics Express, 2013, 21, 32269.   | 1.7 | 161       |
| 20 | Cycle-consistent adversarial denoising network for multiphase coronary CT angiography. Medical Physics, 2019, 46, 550-562.  | 1.6 | 157       |
| 21 | A Data-Driven Sparse GLM for fMRI Analysis Using Sparse Dictionary Learning With MDL Criterion. IEEE Transactions on Medical Imaging, 2011, 30, 1076-1089.                                      | 5.4 | 149       |
| 22 | Enhancement of Terahertz Pulse Emission by Optical Nanoantenna. ACS Nano, 2012, 6, 2026-2031.   | 7.3 | 139       |
| 23 | Annihilating Filter-Based Low-Rank Hankel Matrix Approach for Image Inpainting. IEEE Transactions on Image Processing, 2015, 24, 3498-3511.   | 6.0 | 136       |
| 24 | FALCON: fast and unbiased reconstruction of high-density super-resolution microscopy data. Scientific Reports, 2014, 4, 4577.   | 1.6 | 125       |
| 25 | Sparse-View Spectral CT Reconstruction Using Spectral Patch-Based Low-Rank Penalty. IEEE Transactions on Medical Imaging, 2015, 34, 748-760.  | 5.4 | 124       |
| 26 | Deep residual learning for compressed sensing MRI. , 2017, , .  |     | 122       |
| 27 | Compressed sensing MRI: a review from signal processing perspective. BMC Biomedical Engineering, 2019, 1, 8.  | 1.7 | 106       |
| 28 | Projection reconstruction MR imaging using FOCUSS. Magnetic Resonance in Medicine, 2007, 57, 764-775.   | 1.9 | 102       |
| 29 | CycleMorph: Cycle consistent unsupervised deformable image registration. Medical Image Analysis, 2021, 71, 102036.  | 7.0 | 102       |
| 30 | Quantitative analysis of hemodynamic and metabolic changes in subcortical vascular dementia using simultaneous near-infrared spectroscopy and fMRI measurements. NeuroImage, 2011, 55, 176-184. | 2.1 | 96        |
| 31 | Efficient B-Mode Ultrasound Image Reconstruction From Sub-Sampled RF Data Using Deep Learning. IEEE Transactions on Medical Imaging, 2019, 38, 325-336.   | 5.4 | 94        |
| 32 | Self-reference quantitative phase microscopy for microfluidic devices. Optics Letters, 2010, 35, 514.   | 1.7 | 92        |
| 33 | Radial k-t FOCUSS for high-resolution cardiac cine MRI. Magnetic Resonance in Medicine, 2010, 63, 68-78.  | 1.9 | 88        |
| 34 | CollaGAN: Collaborative GAN for Missing Image Data Imputation. , 2019, , .  |     | 88        |
| 35 | Acceleration of MR parameter mapping using annihilating filter-based low rank hankel matrix (ALOHA). Magnetic Resonance in Medicine, 2016, 76, 1848-1864.                                       | 1.9 | 83        |
| 36 | Mumford-Shah Loss Functional for Image Segmentation With Deep Learning. IEEE Transactions on Image Processing, 2020, 29, 1856-1866.   | 6.0 | 80        |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 37 | Adaptive and Compressive Beamforming Using Deep Learning for Medical Ultrasound. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2020, 67, 1558-1572.   | 1.7 | 79        |
| 38 | Deep Learning Diffuse Optical Tomography. IEEE Transactions on Medical Imaging, 2020, 39, 877-887.   | 5.4 | 77        |
| 39 | Compressive Diffuse Optical Tomography: Noniterative Exact Reconstruction Using Joint Sparsity. IEEE Transactions on Medical Imaging, 2011, 30, 1129-1142.   | 5.4 | 75        |
| 40 | Motion estimated and compensated compressed sensing dynamic magnetic resonance imaging: What we can learn from video compression techniques. International Journal of Imaging Systems and Technology, 2010, 20, 81-98.     | 2.7 | 74        |
| 41 | Fluorescent microscopy beyond diffraction limits using speckle illumination and joint support recovery. Scientific Reports, 2013, 3, 2075.   | 1.6 | 74        |
| 42 | Nonlinear multigrid algorithms for Bayesian optical diffusion tomography. IEEE Transactions on Image Processing, 2001, 10, 909-922.  | 6.0 | 71        |
| 43 | Sparse and Low-Rank Decomposition of a Hankel Structured Matrix for Impulse Noise Removal. IEEE Transactions on Image Processing, 2018, 27, 1448-1461.   | 6.0 | 71        |
| 44 | Multi-task vision transformer using low-level chest X-ray feature corpus for COVID-19 diagnosis and severity quantification. Medical Image Analysis, 2022, 75, 102299.   | 7.0 | 69        |
| 45 | Score-based diffusion models for accelerated MRI. Medical Image Analysis, 2022, 80, 102479.  | 7.0 | 68        |
| 46 | Understanding Graph Isomorphism Network for rs-fMRI Functional Connectivity Analysis. Frontiers in Neuroscience, 2020, 14, 630.  | 1.4 | 65        |
| 47 | Reference-free single-pass EPI $N$ -yquist ghost correction using annihilating filter-based low rank Hankel matrix (ALOHA). Magnetic Resonance in Medicine, 2016, 76, 1775-1789.   | 1.9 | 61        |
| 48 | Tracing the evolution of multi-scale functional networks in a mouse model of depression using persistent brain network homology. NeuroImage, 2014, 101, 351-363.   | 2.1 | 58        |
| 49 | Compressive Sampling Using Annihilating Filter-Based Low-Rank Interpolation. IEEE Transactions on Information Theory, 2017, 63, 777-801.   | 1.5 | 57        |
| 50 | Low-Dose Abdominal CT Using a Deep Learning-Based Denoising Algorithm: A Comparison with CT Reconstructed with Filtered Back Projection or Iterative Reconstruction Algorithm. Korean Journal of Radiology, 2020, 21, 356. | 1.5 | 55        |
| 51 | Motion Adaptive Patch-Based Low-Rank Approach for Compressed Sensing Cardiac Cine MRI. IEEE Transactions on Medical Imaging, 2014, 33, 2069-2085.  | 5.4 | 53        |
| 52 | High-speed terahertz reflection three-dimensional imaging for nondestructive evaluation. Optics Express, 2012, 20, 25432.  | 1.7 | 52        |
| 53 | Unpaired Deep Learning for Accelerated MRI Using Optimal Transport Driven CycleGAN. IEEE Transactions on Computational Imaging, 2020, 6, 1285-1296.  | 2.6 | 52        |
| 54 | Quantification of CMRO <sub>2</sub> without hypercapnia using simultaneous near-infrared spectroscopy and fMRI measurements. Physics in Medicine and Biology, 2010, 55, 3249-3269.   | 1.6 | 48        |

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|----|---|------|-----------|
| 55 | Artificial Intelligence in Health Care: Current Applications and Issues. Journal of Korean Medical Science, 2020, 35, e379.                                 | 1.1  | 46        |
| 56 | AdaIN-Based Tunable CycleGAN for Efficient Unsupervised Low-Dose CT Denoising. IEEE Transactions on Computational Imaging, 2021, 7, 73-85.                  | 2.6  | 44        |
| 57 | A Self-Referencing Level-Set Method for Image Reconstruction from Sparse Fourier Samples. International Journal of Computer Vision, 2002, 50, 253-270.      | 10.9 | 42        |
| 58 | Sparse SPM: Group Sparse-dictionary learning in SPM framework for resting-state functional connectivity MRI analysis. NeuroImage, 2016, 125, 1032-1045.     | 2.1  | 39        |
| 59 | Compressed sensing fMRI using gradient-recalled echo and EPI sequences. NeuroImage, 2014, 92, 312-321.  | 2.1  | 38        |
| 60 | Lipschitz-Killing curvature based expected Euler characteristics for p-value correction in fNIRS. Journal of Neuroscience Methods, 2012, 204, 61-67.        | 1.3  | 37        |
| 61 | Optimal Transport Driven CycleGAN for Unsupervised Learning in Inverse Problems. SIAM Journal on Imaging Sciences, 2020, 13, 2281-2306.                     | 1.3  | 37        |
| 62 | Structured Low-Rank Algorithms: Theory, Magnetic Resonance Applications, and Links to Machine Learning. IEEE Signal Processing Magazine, 2020, 37, 54-68.   | 4.6  | 37        |
| 63 | Unsupervised Deformable Image Registration Using Cycle-Consistent CNN. Lecture Notes in Computer Science, 2019, , 166-174.                                  | 1.0  | 37        |
| 64 | MRI artifact correction using sparse+low-rank decomposition of annihilating filter-based hankel matrix. Magnetic Resonance in Medicine, 2017, 78, 327-340.  | 1.9  | 36        |
| 65 | Reconstruction of multicontrast MR images through deep learning. Medical Physics, 2020, 47, 983-997.  | 1.6  | 36        |
| 66 | 3D high-density localization microscopy using hybrid astigmatic/ biplane imaging and sparse image reconstruction. Biomedical Optics Express, 2014, 5, 3935. | 1.5  | 35        |
| 67 | High-speed terahertz reflection three-dimensional imaging using beam steering. Optics Express, 2015, 23, 5027.  | 1.7  | 34        |
| 68 | CycleGAN denoising of extreme low-dose cardiac CT using wavelet-assisted noise disentanglement. Medical Image Analysis, 2021, 74, 102209.                   | 7.0  | 34        |
| 69 | Unsupervised CT Metal Artifact Learning Using Attention-Guided $\hat{I}^2$ -CycleGAN. IEEE Transactions on Medical Imaging, 2021, 40, 3932-3944.            | 5.4  | 33        |
| 70 | Fully 3D iterative scatter-corrected OSEM for HRRT PET using a GPU. Physics in Medicine and Biology, 2011, 56, 4991-5009.                                   | 1.6  | 31        |
| 71 | CycleGAN With a Blur Kernel for Deconvolution Microscopy: Optimal Transport Geometry. IEEE Transactions on Computational Imaging, 2020, 6, 1127-1138.       | 2.6  | 31        |
| 72 | Assessing the importance of magnetic resonance contrasts using collaborative generative adversarial networks. Nature Machine Intelligence, 2020, 2, 34-42.  | 8.3  | 31        |

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|----|---|-----|-----------|
| 73 | Topological persistence vineyard for dynamic functional brain connectivity during resting and gaming stages. <i>Journal of Neuroscience Methods</i> , 2016, 267, 1-13.                              | 1.3 | 30        |
| 74 | Deep learning STEM-EDX tomography of nanocrystals. <i>Nature Machine Intelligence</i> , 2021, 3, 267-274.   | 8.3 | 30        |
| 75 | Unsupervised Deep Learning Methods for Biological Image Reconstruction and Enhancement: An overview from a signal processing perspective. <i>IEEE Signal Processing Magazine</i> , 2022, 39, 28-44. | 4.6 | 30        |
| 76 | Unsupervised Denoising for Satellite Imagery Using Wavelet Directional CycleGAN. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2021, 59, 6823-6839.                                   | 2.7 | 29        |
| 77 | Asymptotic global confidence regions in parametric shape estimation problems. <i>IEEE Transactions on Information Theory</i> , 2000, 46, 1881-1895.   | 1.5 | 28        |
| 78 | AIM 2020 Challenge on Learned Image Signal Processing Pipeline. <i>Lecture Notes in Computer Science</i> , 2020, , 152-170.   | 1.0 | 26        |
| 79 | Cramer-Rao bounds for parametric shape estimation in inverse problems. <i>IEEE Transactions on Image Processing</i> , 2003, 12, 71-84.  | 6.0 | 25        |
| 80 | Improving Noise Robustness in Subspace-Based Joint Sparse Recovery. <i>IEEE Transactions on Signal Processing</i> , 2012, 60, 5799-5809.  | 3.2 | 25        |
| 81 | Beyond Born-Rytov limit for super-resolution optical diffraction tomography. <i>Optics Express</i> , 2017, 25, 30445.   | 1.7 | 25        |
| 82 | Unpaired MR Motion Artifact Deep Learning Using Outlier-Rejecting Bootstrap Aggregation. <i>IEEE Transactions on Medical Imaging</i> , 2021, 40, 3125-3139.   | 5.4 | 25        |
| 83 | Deep learning enables reference-free isotropic super-resolution for volumetric fluorescence microscopy. <i>Nature Communications</i> , 2022, 13, .  | 5.8 | 23        |
| 84 | Joint sparsity-driven non-iterative simultaneous reconstruction of absorption and scattering in diffuse optical tomography. <i>Optics Express</i> , 2013, 21, 26589.                                | 1.7 | 21        |
| 85 | One network to solve all ROIs: Deep learning CT for any ROI using differentiated backprojection. <i>Medical Physics</i> , 2019, 46, e855-e872.  | 1.6 | 20        |
| 86 | Development of digital breast tomosynthesis and diffuse optical tomography fusion imaging for breast cancer detection. <i>Scientific Reports</i> , 2020, 10, 13127.                                 | 1.6 | 20        |
| 87 | Variational Formulation of Unsupervised Deep Learning for Ultrasound Image Artifact Removal. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2021, 68, 2086-2100.  | 1.7 | 20        |
| 88 | Compressed Sensing Shape Estimation of Star-Shaped Objects in Fourier Imaging. <i>IEEE Signal Processing Letters</i> , 2007, 14, 750-753.   | 2.1 | 19        |
| 89 | Sparsity driven metal part reconstruction for artifact removal in dental CT. <i>Journal of X-Ray Science and Technology</i> , 2011, 19, 457-475.  | 0.7 | 19        |
| 90 | Metal artifact reduction in CT by identifying missing data hidden in metals. <i>Journal of X-Ray Science and Technology</i> , 2013, 21, 357-372.  | 0.7 | 19        |

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|-----|--|-----|-----------|
| 91  | Fully iterative scatter corrected digital breast tomosynthesis using GPU-based fast Monte Carlo simulation and composition ratio update. <i>Medical Physics</i> , 2015, 42, 5342-5355.                 | 1.6 | 19        |
| 92  | Asymptotic Global Confidence Regions for 3-D Parametric Shape Estimation in Inverse Problems. <i>IEEE Transactions on Image Processing</i> , 2006, 15, 2904-2919.                                      | 6.0 | 18        |
| 93  | k-space deep learning for reference-free EPI ghost correction. <i>Magnetic Resonance in Medicine</i> , 2019, 82, 2299-2313.  | 1.9 | 18        |
| 94  | Self-evolving vision transformer for chest X-ray diagnosis through knowledge distillation. <i>Nature Communications</i> , 2022, 13, .  | 5.8 | 18        |
| 95  | Cycle-Free CycleGAN Using Invertible Generator for Unsupervised Low-Dose CT Denoising. <i>IEEE Transactions on Computational Imaging</i> , 2021, 7, 1354-1368.   | 2.6 | 17        |
| 96  | Interior Tomography Using 1D Generalized Total Variation. Part I: Mathematical Foundation. <i>SIAM Journal on Imaging Sciences</i> , 2015, 8, 226-247.   | 1.3 | 16        |
| 97  | Continuous Conversion of CT Kernel Using Switchable CycleGAN With AdaIN. <i>IEEE Transactions on Medical Imaging</i> , 2021, 40, 3015-3029.  | 5.4 | 16        |
| 98  | DeepRegularizer: Rapid Resolution Enhancement of Tomographic Imaging Using Deep Learning. <i>IEEE Transactions on Medical Imaging</i> , 2021, 40, 1508-1518.   | 5.4 | 16        |
| 99  | Deep learning model for diagnosing gastric mucosal lesions using endoscopic images: development, validation, and method comparison. <i>Gastrointestinal Endoscopy</i> , 2022, 95, 258-268.e10.         | 0.5 | 16        |
| 100 | Improving the Reliability of Pharmacokinetic Parameters at Dynamic Contrast-enhanced MRI in Astrocytomas: A Deep Learning Approach. <i>Radiology</i> , 2020, 297, 178-188.                             | 3.6 | 15        |
| 101 | Interior Tomography Using 1D Generalized Total Variation. Part II: Multiscale Implementation. <i>SIAM Journal on Imaging Sciences</i> , 2015, 8, 2452-2486.  | 1.3 | 14        |
| 102 | Whole-brain perfusion imaging with balanced steady-state free precession arterial spin labeling. <i>NMR in Biomedicine</i> , 2016, 29, 264-274.  | 1.6 | 14        |
| 103 | Accuracy improvement of quantification information using super-resolution with convolutional neural network for microscopy images. <i>Biomedical Signal Processing and Control</i> , 2020, 58, 101846. | 3.5 | 14        |
| 104 | Computational MRI: Compressive Sensing and Beyond [From the Guest Editors]. <i>IEEE Signal Processing Magazine</i> , 2020, 37, 21-23.  | 4.6 | 14        |
| 105 | Missing Cone Artifact Removal in ODT Using Unsupervised Deep Learning in the Projection Domain. <i>IEEE Transactions on Computational Imaging</i> , 2021, 7, 747-758.                                  | 2.6 | 14        |
| 106 | Optical Coherence Tomography of Plaque Erosion. <i>Journal of the American College of Cardiology</i> , 2021, 78, 1266-1274.  | 1.2 | 14        |
| 107 | Coherent optical computing for T-ray imaging. <i>Optics Letters</i> , 2010, 35, 508.   | 1.7 | 12        |
| 108 | Improving M-SBL for Joint Sparse Recovery Using a Subspace Penalty. <i>IEEE Transactions on Signal Processing</i> , 2015, 63, 6595-6605.   | 3.2 | 12        |

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|-----|---|-----|-----------|
| 109 | Deep Learning for Accelerated Ultrasound Imaging. , 2018, , .   |     | 12        |
| 110 | Deep Learning-Based Universal Beamformer for Ultrasound Imaging. Lecture Notes in Computer Science, 2019, , 619-627.  | 1.0 | 12        |
| 111 | A novel k-space annihilating filter method for unification between compressed sensing and parallel MRI. , 2015, , .   |     | 11        |
| 112 | Single channel blind image deconvolution from radially symmetric blur kernels. Optics Express, 2007, 15, 3791.  | 1.7 | 10        |
| 113 | Group sparse dictionary learning and inference for resting-state fMRI analysis of Alzheimer'S disease. , 2013, , .  |     | 10        |
| 114 | Two-Dimensional Elastic Scattering Coefficients and Enhancement of Nearly Elastic Cloaking. Journal of Elasticity, 2017, 128, 203-243.                                      | 0.9 | 10        |
| 115 | Geometric Approaches to Increase the Expressivity of Deep Neural Networks for MR Reconstruction. IEEE Journal on Selected Topics in Signal Processing, 2020, 14, 1292-1305. | 7.3 | 10        |
| 116 | Unpaired Training of Deep Learning tMRA for Flexible Spatio-Temporal Resolution. IEEE Transactions on Medical Imaging, 2021, 40, 166-179.                                   | 5.4 | 10        |
| 117 | Two-stage deep learning for accelerated 3D time-of-flight MRA without matched training data. Medical Image Analysis, 2021, 71, 102047.                                      | 7.0 | 10        |
| 118 | PyNET-CA: Enhanced PyNET with Channel Attention for End-to-End Mobile Image Signal Processing. Lecture Notes in Computer Science, 2020, , 202-212.                          | 1.0 | 10        |
| 119 | Performance evaluation of accelerated functional MRI acquisition using compressed sensing. , 2009, , .  |     | 9         |
| 120 | Compressed sensing pulse-echo mode terahertz reflectance tomography. Optics Letters, 2009, 34, 3863.  | 1.7 | 9         |
| 121 | Dynamic sparse support tracking with multiple measurement vectors using compressive MUSIC. , 2012, , .  |     | 9         |
| 122 | Compressive dynamic aperture B-mode ultrasound imaging using annihilating filter-based low-rank interpolation. , 2016, , .  |     | 9         |
| 123 | A Mathematical Framework for Deep Learning in Elastic Source Imaging. SIAM Journal on Applied Mathematics, 2018, 78, 2791-2818.   | 0.8 | 9         |
| 124 | BMC Biomedical Engineering: a home for all biomedical engineering research. BMC Biomedical Engineering, 2019, 1, 1.   | 1.7 | 8         |
| 125 | Optimal Transport Structure of CycleGAN for Unsupervised Learning for Inverse Problems. , 2020, , .   |     | 8         |
| 126 | Blind Deconvolution Microscopy Using Cycle Consistent CNN with Explicit PSF Layer. Lecture Notes in Computer Science, 2019, , 173-180.                                      | 1.0 | 8         |



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|-----|---|-----|-----------|
| 127 | Sampling scheme optimization for diffuse optical tomography based on data and image space rankings. Journal of Biomedical Optics, 2016, 21, 106004.                                 | 1.4 | 7         |
| 128 | Sparse-view X-ray spectral CT reconstruction using annihilating filter-based low rank hankel matrix approach. , 2016, , .   |     | 7         |
| 129 | A Joint Sparse Recovery Framework for Accurate Reconstruction of Inclusions in Elastic Media. SIAM Journal on Imaging Sciences, 2017, 10, 1104-1138.                                | 1.3 | 7         |
| 130 | Topological sensitivity based far-field detection of elastic inclusions. Results in Physics, 2018, 8, 442-460.  | 2.0 | 7         |
| 131 | Universal Plane-Wave Compounding for High Quality US Imaging Using Deep Learning. , 2019, , .   |     | 7         |
| 132 | Differentiated Backprojection Domain Deep Learning for Conebeam Artifact Removal. IEEE Transactions on Medical Imaging, 2020, 39, 3571-3582.  | 5.4 | 7         |
| 133 | Deep learning-based denoising algorithm in comparison to iterative reconstruction and filtered back projection: a 12-reader phantom study. European Radiology, 2021, 31, 8755-8764. | 2.3 | 7         |
| 134 | Compressive MUSIC with optimized partial support for joint sparse recovery. , 2011, , .   |     | 6         |
| 135 | Switchable and Tunable Deep Beamformer Using Adaptive Instance Normalization for Medical Ultrasound. IEEE Transactions on Medical Imaging, 2022, 41, 266-278.                       | 5.4 | 6         |
| 136 | Terahertz substance imaging by waveform shaping. Optics Express, 2012, 20, 20783.   | 1.7 | 5         |
| 137 | A unified statistical framework for material decomposition using multienergy photon counting x-ray detectors. Medical Physics, 2013, 40, 091913.                                    | 1.6 | 5         |
| 138 | Translational motion correction algorithm for truncated cone-beam CT using opposite projections. Journal of X-Ray Science and Technology, 2017, 25, 927-944.                        | 0.7 | 5         |
| 139 | Grid-Free Localization Algorithm Using Low-Rank Hankel Matrix for Super-Resolution Microscopy. IEEE Transactions on Image Processing, 2018, 27, 4771-4786.                          | 6.0 | 5         |
| 140 | Quantitative susceptibility map reconstruction using annihilating filter-based low-rank Hankel matrix approach. Magnetic Resonance in Medicine, 2020, 83, 858-871.                  | 1.9 | 5         |
| 141 | Unsupervised Deconvolution Neural Network for High Quality Ultrasound Imaging. , 2020, , .  |     | 5         |
| 142 | DeepPhaseCut: Deep Relaxation in Phase for Unsupervised Fourier Phase Retrieval. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2022, 44, 9931-9943.               | 9.7 | 5         |
| 143 | Deep Learning in Biological Image and Signal Processing [From the Guest Editors]. IEEE Signal Processing Magazine, 2022, 39, 24-26.   | 4.6 | 5         |
| 144 | Unsupervised resolution-agnostic quantitative susceptibility mapping using adaptive instance normalization. Medical Image Analysis, 2022, 79, 102477.                               | 7.0 | 5         |

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|-----|---|-----|-----------|
| 145 | Low-Dose Sparse-View HAADF-STEM-EDX Tomography of Nanocrystals Using Unsupervised Deep Learning. ACS Nano, 2022, 16, 10314-10326.   | 7.3 | 5         |
| 146 | Compressed sensing metal artifact removal in dental CT. , 2009, , .   |     | 4         |
| 147 | Compressed Sensing for fMRI: Feasibility Study on the Acceleration of Non-EPI fMRI at 9.4T. BioMed Research International, 2015, 2015, 1-24.  | 0.9 | 4         |
| 148 | Fast live cell imaging at nanometer scale using annihilating filter-based low-rank Hankel matrix approach. Proceedings of SPIE, 2015, , .   | 0.8 | 4         |
| 149 | A Unified Sparse Recovery and Inference Framework for Functional Diffuse Optical Tomography Using Random Effect Model. IEEE Transactions on Medical Imaging, 2015, 34, 1602-1615.               | 5.4 | 4         |
| 150 | Patch based low rank structured matrix completion for accelerated scanning microscopy. , 2015, , .  |     | 4         |
| 151 | Reusability report: Feature disentanglement in generating a three-dimensional structure from a two-dimensional slice with sliceGAN. Nature Machine Intelligence, 2021, 3, 861-863.              | 8.3 | 4         |
| 152 | Exact reconstruction formula for diffuse optical tomography using simultaneous sparse representation. , 2008, , .   |     | 3         |
| 153 | A sparse Bayesian learning for highly accelerated dynamic MRI. , 2010, , .  |     | 3         |
| 154 | Sparse and low-rank decomposition of MR artifact images using annihilating filter-based Hankel matrix. , 2016, , .  |     | 3         |
| 155 | Framelet denoising for low-dose CT using deep learning. , 2018, , .   |     | 3         |
| 156 | Switchable Deep Beamformer For Ultrasound Imaging Using Adain. , 2021, , .  |     | 3         |
| 157 | Statistical parametric mapping of fMRI data using sparse dictionary learning. , 2010, , .   |     | 2         |
| 158 | Diffuse optical tomography using generalized music algorithm. , 2011, , .   |     | 2         |
| 159 | Source localization approach for functional DOT using MUSIC and FDR control. Optics Express, 2012, 20, 6267.  | 1.7 | 2         |
| 160 | Corrections to "Compressive MUSIC: Revisiting the Link Between Compressive Sensing and Array Signal Processing" [Jan 12 278-301]. IEEE Transactions on Information Theory, 2013, 59, 6148-6149. | 1.5 | 2         |
| 161 | Unified Theory for Recovery of Sparse Signals in a General Transform Domain. IEEE Transactions on Information Theory, 2018, 64, 5457-5477.  | 1.5 | 2         |
| 162 | Unsupervised Deep Learning For Accelerated High Quality Echocardiography. , 2021, , .   |     | 2         |

| #   | ARTICLE  | IF  | CITATIONS |
|-----|--|-----|-----------|
| 163 | Reference-free EPI Nyquist ghost correction using annihilating filter-based low rank hankel matrix for K-space interpolation. , 2016, , .  |     | 2         |
| 164 | Convolutional Neural Networks. Mathematics in Industry, 2022, , 113-134.   | 0.1 | 2         |
| 165 | Multi-Domain Unpaired Ultrasound Image Artifact Removal Using a Single Convolutional Neural Network. , 2022, , .   |     | 2         |
| 166 | High resolution dynamic MRI using motion estimated and compensated compressed sensing. , 2008, , .   |     | 1         |
| 167 | Sparse topological data recovery in medical images. , 2011, , .  |     | 1         |
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