

# Eric L Miller

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

187  
papers

4,570  
citations

38  
h-index

63  
g-index

253  
ext. papers

5,424  
ext. citations

4.7  
avg, IF

5.41  
L-index

#	Paper	IF	Citations
187	Compressed sensing two-dimensional Bragg scatter imaging. <i>Optics Express</i> , <b>2021</b> , 29, 18139-18172	3.3	
186	Head motion classification using thread-based sensor and machine learning algorithm. <i>Scientific Reports</i> , <b>2021</b> , 11, 2646	4.9	2
185	Bragg scattering tomography. <i>Inverse Problems and Imaging</i> , <b>2021</b> , 15, 683	2.1	1
184	Randomized approaches to accelerate MCMC algorithms for Bayesian inverse problems. <i>Journal of Computational Physics</i> , <b>2021</b> , 440, 110391	4.1	1
183	Thermo-Mechanically Trained Shape Memory Alloy for Temperature Recording With Visual Readout <b>2021</b> , 5, 1-4		3
182	Subsurface Source Zone Characterization and Uncertainty Quantification Using Discriminative Random Fields. <i>Water Resources Research</i> , <b>2020</b> , 56, e2019WR026481	5.4	6
181	A joint reconstruction and lambda tomography regularization technique for energy-resolved x-ray imaging. <i>Inverse Problems</i> , <b>2020</b> , 36, 074002	2.3	7
180	Optimal Transport Based Change Point Detection and Time Series Segment Clustering <b>2020</b> ,		1
179	An inner-loop iterative method for edge preservation in image restoration and reconstruction. <i>Inverse Problems</i> , <b>2020</b> , 36, 124004	2.3	1
178	On Matched Filtering for Statistical Change Point Detection. <i>IEEE Open Journal of Signal Processing</i> , <b>2020</b> , 1, 159-176	1.2	2
177	Compton scattering tomography in translational geometries. <i>Inverse Problems</i> , <b>2020</b> , 36, 025007	2.3	4
176	Artifact Suppression for Passive Cavitation Imaging Using U-Net CNNs with Uncertainty Quantification <b>2019</b> ,		1
175	On the Fusion of Energy Resolved Scatter and Attenuation Data for Limited-View X-Ray Materials Characterization With Application to Security Screening. <i>IEEE Transactions on Computational Imaging</i> , <b>2019</b> , 5, 620-634	4.5	1
174	Limited-View X-Ray Tomography Combining Attenuation and Compton Scatter Data: Approach and Experimental Results. <i>IEEE Access</i> , <b>2019</b> , 7, 165734-165747	3.5	2
173	Cerebrovascular network registration via an efficient attributed graph matching technique. <i>Medical Image Analysis</i> , <b>2018</b> , 46, 118-129	15.4	7
172	Sparse modeling of space- and time-varying diffraction response of a progressively loaded aluminum alloy. <i>Materials Characterization</i> , <b>2018</b> , 145, 713-723	3.9	0
171	Time domain reconstruction of sound speed and attenuation in ultrasound computed tomography using full wave inversion. <i>Journal of the Acoustical Society of America</i> , <b>2017</b> , 141, 1595	2.2	36

170	Sparse view Compton scatter tomography with energy resolved data: experimental and simulation results <b>2017</b> ,		1
169	A Probabilistic Analysis of Positional Errors on Satellite Remote Sensing Data Using Scattered Interpolation. <i>IEEE Geoscience and Remote Sensing Letters</i> , <b>2017</b> , 14, 861-865	4.1	1
168	Transcranial cavitation-mediated ultrasound therapy at sub-MHz frequency via temporal interference modulation. <i>Applied Physics Letters</i> , <b>2017</b> , 111, 163701	3.4	6
167	Multiple output Gaussian process regression algorithm for multi-frequency scattered data interpolation <b>2017</b> ,		2
166	Disposable colorimetric geometric barcode sensor for food quality monitoring <b>2017</b> ,		6
165	Closed-loop control of targeted ultrasound drug delivery across the blood-brain/tumor barriers in a rat glioma model. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2017</b> , 114, E10281-E10290	11.5	142
164	Low cost smart phone diagnostics for food using paper-based colorimetric sensor arrays. <i>Food Control</i> , <b>2017</b> , 82, 227-232	6.2	65
163	Joint volumetric extraction and enhancement of vasculature from low-SNR 3-D fluorescence microscopy images. <i>Pattern Recognition</i> , <b>2017</b> , 63, 710-718	7.7	5
162	Minimum entropy autofocus for 3D SAR images from a UAV platform <b>2016</b> ,		4
161	On the Use of Gaussian Random Processes for Probabilistic Interpolation of CubeSat Data in the Presence of Geolocation Error. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , <b>2016</b> , 9, 2777-2793	4.7	4
160	Flexible pH-Sensing Hydrogel Fibers for Epidermal Applications. <i>Advanced Healthcare Materials</i> , <b>2016</b> , 5, 711-9	10.1	122
159	Robust x-ray based material identification using multi-energy sinogram decomposition <b>2016</b> ,		1
158	Manifold Regression Framework for Characterizing Source Zone Architecture. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2016</b> , 54, 3-17	8.1	4
157	5th International Symposium on Focused Ultrasound. <i>Journal of Therapeutic Ultrasound</i> , <b>2016</b> , 4,		1
156	pH-Sensing Hydrogel Fibers: Flexible pH-Sensing Hydrogel Fibers for Epidermal Applications (Adv. Healthcare Mater. 6/2016). <i>Advanced Healthcare Materials</i> , <b>2016</b> , 5, 624-624	10.1	3
155	Large-scale automatic reconstruction of neuronal processes from electron microscopy images. <i>Medical Image Analysis</i> , <b>2015</b> , 22, 77-88	15.4	75
154	Stabilizing dual-energy x-ray computed tomography reconstructions using patch-based regularization. <i>Inverse Problems</i> , <b>2015</b> , 31, 105004	2.3	7
153	Automated Image Processing for Spatially Resolved Analysis of Lipid Droplets in Cultured 3T3-L1 Adipocytes. <i>Tissue Engineering - Part C: Methods</i> , <b>2015</b> , 21, 605-13	2.9	5

152	Fast Algorithms for Hyperspectral Diffuse Optical Tomography. <i>SIAM Journal of Scientific Computing</i> , <b>2015</b> , 37, B712-B743	2.6	5
151	Membrane potential depolarization causes alterations in neuron arrangement and connectivity in cocultures. <i>Brain and Behavior</i> , <b>2015</b> , 5, 24-38	3.4	14
150	Automatic neuron segmentation and neural network analysis method for phase contrast microscopy images. <i>Biomedical Optics Express</i> , <b>2015</b> , 6, 4395-416	3.5	8
149	Development of a Rapid Cartilage Damage Quantification Method for the Lateral Tibiofemoral Compartment Using Magnetic Resonance Images: Data from the Osteoarthritis Initiative. <i>BioMed Research International</i> , <b>2015</b> , 2015, 634275	3	13
148	Markov random field models for quantifying uncertainty in subsurface remediation <b>2015</b> ,		1
147	Exploiting Algebraic and Structural Complexity for Single Snapshot Computed Tomography Hyperspectral Imaging Systems. <i>IEEE Journal on Selected Topics in Signal Processing</i> , <b>2015</b> , 9, 990-1002	7.5	2
146	Fast Kalman filter using hierarchical matrices and a low-rank perturbative approach. <i>Inverse Problems</i> , <b>2015</b> , 31, 015009	2.3	7
145	A novel method for identifying a graph-based representation of 3-D microvascular networks from fluorescence microscopy image stacks. <i>Medical Image Analysis</i> , <b>2015</b> , 20, 208-23	15.4	10
144	On the use of coupled shape priors for segmentation of magnetic resonance images of the knee. <i>IEEE Journal of Biomedical and Health Informatics</i> , <b>2015</b> , 19, 1153-67	7.2	4
143	Tensor-based formulation and nuclear norm regularization for multienergy computed tomography. <i>IEEE Transactions on Image Processing</i> , <b>2014</b> , 23, 1678-93	8.7	183
142	A constrained optimization approach to combining multiple non-local means denoising estimates. <i>Signal Processing</i> , <b>2014</b> , 103, 60-68	4.4	5
141	Development of a rapid knee cartilage damage quantification method using magnetic resonance images. <i>BMC Musculoskeletal Disorders</i> , <b>2014</b> , 15, 264	2.8	18
140	Locally optimized non-local means denoising for low-dose X-ray backscatter imagery. <i>Journal of X-Ray Science and Technology</i> , <b>2014</b> , 22, 569-86	2.1	
139	A fast Kalman filter for time-lapse electrical resistivity tomography <b>2014</b> ,		3
138	Quantification of bone marrow lesion volume and volume change using semi-automated segmentation: data from the osteoarthritis initiative. <i>BMC Musculoskeletal Disorders</i> , <b>2013</b> , 14, 3	2.8	20
137	A geometric approach to joint inversion with applications to contaminant source zone characterization. <i>Inverse Problems</i> , <b>2013</b> , 29, 115014	2.3	17
136	Evaluation of bone marrow lesion volume as a knee osteoarthritis biomarker—longitudinal relationships with pain and structural changes: data from the Osteoarthritis Initiative. <i>Arthritis Research and Therapy</i> , <b>2013</b> , 15, R112	5.7	54
135	Microvasculature network identification in 3-D fluorescent microscopy images <b>2013</b> ,		2

134	Parametric estimation of 3D tubular structures for diffuse optical tomography. <i>Biomedical Optics Express</i> , <b>2013</b> , 4, 271-86	3.5	10
133	Bone marrow lesion volume reduction is not associated with improvement of other periarticular bone measures: data from the Osteoarthritis Initiative. <i>Arthritis Research and Therapy</i> , <b>2013</b> , 15, R153	5.7	8
132	Exploiting structural complexity for robust and rapid hyperspectral imaging <b>2013</b> ,		6
131	Geometric image formation for target identification in multi-energy computed tomography <b>2013</b> ,		2
130	Sensitivity Calculations for Poisson's Equation via the Adjoint Field Method. <i>IEEE Geoscience and Remote Sensing Letters</i> , <b>2012</b> , 9, 237-241	4.1	7
129	A parametric level-set approach to simultaneous object identification and background reconstruction for dual-energy computed tomography. <i>IEEE Transactions on Image Processing</i> , <b>2012</b> , 21, 2719-34	8.7	48
128	Environmental Remediation and Restoration: Hydrological and Geophysical Processing Methods. <i>IEEE Signal Processing Magazine</i> , <b>2012</b> , 29, 16-26	9.4	3
127	Nonlocal means denoising of ECG signals. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2012</b> , 59, 2383-6	5	141
126	High-Order Regularized Regression in Electrical Impedance Tomography. <i>SIAM Journal on Imaging Sciences</i> , <b>2012</b> , 5, 912-943	1.9	1
125	Parametric level set reconstruction methods for hyperspectral diffuse optical tomography. <i>Biomedical Optics Express</i> , <b>2012</b> , 3, 1006-24	3.5	11
124	Manifold regression for subsurface contaminant characterization <b>2012</b> ,		1
123	Multi-parameter acoustic imaging of uniform objects in inhomogeneous soft tissue. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , <b>2012</b> , 59, 1700-12	3.2	7
122	Hyperspectral image reconstruction for diffuse optical tomography. <i>Biomedical Optics Express</i> , <b>2011</b> , 2, 946-65	3.5	16
121	Parametric Level Set Methods for Inverse Problems. <i>SIAM Journal on Imaging Sciences</i> , <b>2011</b> , 4, 618-650	1.9	73
120	Modeling habituation in rat EEG-evoked responses via a neural mass model with feedback. <i>Biological Cybernetics</i> , <b>2011</b> , 105, 371-97	2.8	3
119	3D shape analysis of intracranial aneurysms using the writhe number as a discriminant for rupture. <i>Annals of Biomedical Engineering</i> , <b>2011</b> , 39, 1457-69	4.7	21
118	Quantitative bone marrow lesion size in osteoarthritic knees correlates with cartilage damage and predicts longitudinal cartilage loss. <i>BMC Musculoskeletal Disorders</i> , <b>2011</b> , 12, 217	2.8	39
117	Rupture status discrimination in intracranial aneurysms using the centroid-radii model. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2011</b> , 58, 2895-903	5	8

116	Segmentation fusion for connectomics <b>2011</b> ,		44
115	Combined optical and X-ray tomosynthesis breast imaging. <i>Radiology</i> , <b>2011</b> , 258, 89-97	20.5	151
114	A curve evolution method for identifying weak edges with applications to the segmentation of magnetic resonance images of the knee <b>2011</b> ,		3
113	A Shape-Based Inversion Algorithm Applied to Microwave Imaging of Breast Tumors. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2011</b> , 59, 3719-3729	4.9	5
112	Flat-Top Footprint Pattern Synthesis Through the Design of Arbitrary Planar-Shaped Apertures. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2010</b> , 58, 2539-2552	4.9	18
111	Robust Estimation of a Random Parameter in a Gaussian Linear Model With Joint Eigenvalue and Elementwise Covariance Uncertainties. <i>IEEE Transactions on Signal Processing</i> , <b>2010</b> , 58, 1001-1011	4.8	11
110	Automated detection of intracranial aneurysms based on parent vessel 3D analysis. <i>Medical Image Analysis</i> , <b>2010</b> , 14, 149-59	15.4	36
109	Oriented Markov random field based dendritic spine segmentation for fluorescence microscopy images. <i>Neuroinformatics</i> , <b>2010</b> , 8, 157-70	3.2	4
108	Data specific spatially varying regularization for multimodal fluorescence molecular tomography. <i>IEEE Transactions on Medical Imaging</i> , <b>2010</b> , 29, 365-74	11.7	49
107	Multiple Hypothesis Video Segmentation from Superpixel Flows. <i>Lecture Notes in Computer Science</i> , <b>2010</b> , 268-281	0.9	50
106	Multiphase geometric couplings for the segmentation of neural processes <b>2009</b> ,		16
105	Fully automated, quantitative, noninvasive assessment of collagen fiber content and organization in thick collagen gels. <i>Journal of Applied Physics</i> , <b>2009</b> , 105, 102042	2.5	89
104	Synthesis of planar arrays with arbitrary geometry for flat-top footprint patterns <b>2009</b> ,		2
103	Flat-top power patterns of arbitrary footprint produced by arrays of arbitrary planar geometry <b>2009</b> ,		1
102	HIFU lesion characterization on liver: acquisition and results <b>2009</b> ,		1
101	Combined optical imaging and mammography of the healthy breast: optical contrast derived from breast structure and compression. <i>IEEE Transactions on Medical Imaging</i> , <b>2009</b> , 28, 30-42	11.7	102
100	Performance dependence of hybrid x-ray computed tomography/fluorescence molecular tomography on the optical forward problem. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , <b>2009</b> , 26, 919-23	1.8	65
99	Fast computation of the acoustic field for ultrasound elements. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , <b>2009</b> , 56, 1903-12	3.2	1

98	Hybrid FMT-CT imaging of amyloid-beta plaques in a murine Alzheimer's disease model. <i>NeuroImage</i> , <b>2009</b> , 44, 1304-11	7.9	125
97	Multiphase geometric couplings for the segmentation of neural processes <b>2009</b> ,		3
96	Estimation and statistical bounds for three-dimensional polar shapes in diffuse optical tomography. <i>IEEE Transactions on Medical Imaging</i> , <b>2008</b> , 27, 752-65	11.7	8
95	Nonlinear Filtering Using a New Proposal Distribution and the Improved Fast Gauss Transform With Tighter Performance Bounds. <i>IEEE Transactions on Signal Processing</i> , <b>2008</b> , 56, 5746-5757	4.8	7
94	Analysis and Exploitation of Matrix Structure Arising in Linearized Optical Tomographic Imaging. <i>SIAM Journal on Matrix Analysis and Applications</i> , <b>2008</b> , 29, 1065-1082	1.5	2
93	Shape-based ultrasound tomography using a Born model with application to high intensity focused ultrasound therapy. <i>Journal of the Acoustical Society of America</i> , <b>2008</b> , 123, 2944-56	2.2	2
92	New techniques for data fusion in multimodal FMT-CT imaging <b>2008</b> ,		2
91	Spectrally Constrained Optical Breast Imaging with Co-registered X-Ray Tomosynthesis <b>2008</b> ,		2
90	Random walk/Markov Chain model for sensor positional uncertainty with application to UXO discrimination <b>2007</b> ,		1
89	Fast Gauss Transforms based on a High Order Singular Value Decomposition for Nonlinear Filtering <b>2007</b> ,		2
88	A novel computational approach for automatic dendrite spines detection in two-photon laser scan microscopy. <i>Journal of Neuroscience Methods</i> , <b>2007</b> , 165, 122-34	3	46
87	Subsurface Sensing of Buried Objects Under a Randomly Rough Surface Using Scattered Electromagnetic Field Data. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2007</b> , 45, 104-117	8.1	60
86	Subsurface Sensing Under Sensor Positional Uncertainty. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2007</b> , 45, 675-688	8.1	15
85	Statistical Classification of Buried Unexploded Ordnance Using Nonparametric Prior Models. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2007</b> , 45, 2794-2806	8.1	23
84	Automated axon tracking of 3D confocal laser scanning microscopy images using guided probabilistic region merging. <i>Neuroinformatics</i> , <b>2007</b> , 5, 189-203	3.2	15
83	Semi-analytical computation of the acoustic field of a segment of a cylindrically concave transducer in lossless and attenuating media. <i>Journal of the Acoustical Society of America</i> , <b>2007</b> , 121, 1226-37	2.2	3
82	Analysis of reconstructions in full view fluorescence molecular tomography <b>2007</b> , 6498, 11		3
81	Spatio-temporal imaging of the hemoglobin in the compressed breast with diffuse optical tomography. <i>Physics in Medicine and Biology</i> , <b>2007</b> , 52, 3619-41	3.8	44



80	A statistical approach to inverting the Born ratio. <i>IEEE Transactions on Medical Imaging</i> , <b>2007</b> , 26, 893-905	1.7	15
79	A projection-based level-set approach to enhance conductivity anomaly reconstruction in electrical resistance tomography. <i>Inverse Problems</i> , <b>2007</b> , 23, 2375-2400	2.3	25
78	Particle swarm optimization as an inversion tool for a nonlinear UXO model <b>2007</b> ,		4
77	Three-dimensional surface mesh segmentation using curvedness-based region growing approach. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , <b>2007</b> , 29, 2195-204	13.3	43
76	3-D CENTERLINE EXTRACTION OF AXONS IN MICROSCOPIC STACKS FOR THE STUDY OF MOTOR NEURON BEHAVIOR IN DEVELOPING MUSCLES <b>2007</b> ,		1
75	Spherical harmonics microwave algorithm for shape and location reconstruction of breast cancer tumor. <i>IEEE Transactions on Medical Imaging</i> , <b>2006</b> , 25, 1258-71	11.7	45
74	SWAN: A distributed knowledge infrastructure for Alzheimer disease research. <i>Web Semantics</i> , <b>2006</b> , 4, 222-228	2.9	29
73	Optimal linear inverse solution with multiple priors in diffuse optical tomography. <i>Applied Optics</i> , <b>2005</b> , 44, 1948-56	1.7	54
72	Recursive estimation methods for tracking of localized perturbations in absorption using diffuse optical tomography <b>2005</b> , 5674, 316		
71	New inverse method for simultaneous reconstruction of object buried beneath rough ground and the ground surface structure using SAMM forward model <b>2005</b> , 5674, 382		1
70	An Overview of W3C Semantic Web Activity. <i>Bulletin of the American Society for Information Science</i> , <b>2005</b> , 29, 8-11		5
69	Parallel-Beam Backprojection: An FPGA Implementation Optimized for Medical Imaging. <i>Journal of Signal Processing Systems</i> , <b>2005</b> , 39, 295-311		20
68	Quantitative spectroscopic diffuse optical tomography of the breast guided by imperfect a priori structural information. <i>Physics in Medicine and Biology</i> , <b>2005</b> , 50, 3941-56	3.8	49
67	Adaptive multiscale reconstruction of buried objects. <i>Inverse Problems</i> , <b>2004</b> , 20, S1-S15	2.3	36
66	Adaptive B-spline scheme for solving an inverse scattering problem. <i>Inverse Problems</i> , <b>2004</b> , 20, 347-365	2.3	11
65	Determining the pulse-echo electromechanical characteristic of a transducer using flat plates and point targets. <i>Journal of the Acoustical Society of America</i> , <b>2004</b> , 116, 90-96	2.2	12
64	Adaptive two-pass rank order filter to remove impulse noise in highly corrupted images. <i>IEEE Transactions on Image Processing</i> , <b>2004</b> , 13, 238-47	8.7	34
63	Statistical classification of buried objects from spatially sampled time or frequency domain electromagnetic induction data. <i>Radio Science</i> , <b>2004</b> , 39, n/a-n/a	1.4	15



62	Reconstructing chromosphere concentration images directly by continuous-wave diffuse optical tomography. <i>Optics Letters</i> , <b>2004</b> , 29, 256-8	3	98
61	Multiple-incidence and multifrequency for profile reconstruction of random rough surfaces using the 3-D electromagnetic fast multipole model. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2004</b> , 42, 2499-2510	8.1	18
60	On imaging multiple physical parameters in an inverse problems context <b>2004</b> , 5299, 51		
59	Computational algorithm for reconstructing the profile of 2D rough surfaces <b>2004</b> , 5299, 43		
58	Cortical constraint method for diffuse optical brain imaging <b>2004</b> ,		2
57	Feature-Enhancing Inverse Methods for Limited-View Tomographic Imaging Problems. <i>Subsurface Sensing Technologies and Applications</i> , <b>2003</b> , 4, 327-353		3
56	Three-dimensional shape-based imaging of absorption perturbation for diffuse optical tomography. <i>Applied Optics</i> , <b>2003</b> , 42, 3129-44	1.7	38
55	Tomographic optical breast imaging guided by three-dimensional mammography. <i>Applied Optics</i> , <b>2003</b> , 42, 5181-90	1.7	134
54	Minimum entropy regularization in frequency-wavenumber migration to localize subsurface objects. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2003</b> , 41, 1804-1812	8.1	40
53	Recent work in shape-based methods for diffusive inverse problems. <i>Review of Scientific Instruments</i> , <b>2003</b> , 74, 2580-2582	1.7	4
52	A doubly adaptive approach to dynamic MRI sequence estimation. <i>IEEE Transactions on Image Processing</i> , <b>2002</b> , 11, 1168-78	8.7	6
51	Parallel-beam backprojection <b>2002</b> ,		14
50	Efficient determination of multiple regularization parameters in a generalized L-curve framework. <i>Inverse Problems</i> , <b>2002</b> , 18, 1161-1183	2.3	150
49	Template matching based object recognition with unknown geometric parameters. <i>IEEE Transactions on Image Processing</i> , <b>2002</b> , 11, 1385-96	8.7	55
48	Statistical method to detect subsurface objects using array ground-penetrating radar data. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2002</b> , 40, 963-976	8.1	41
47	An efficient region of interest acquisition method for dynamic magnetic resonance imaging. <i>IEEE Transactions on Image Processing</i> , <b>2001</b> , 10, 1118-28	8.7	6
46	Imaging the body with diffuse optical tomography. <i>IEEE Signal Processing Magazine</i> , <b>2001</b> , 18, 57-75	9.4	437
45	Object detection using high resolution near-field array processing. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2001</b> , 39, 136-141	8.1	14

44	Three-dimensional subsurface analysis of electromagnetic scattering from penetrable/PEC objects buried under rough surfaces: use of the steepest descent fast multipole method. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2001</b> , 39, 1174-1182	8.1	45
43	QMR-Based Projection Techniques for the Solution of Non-Hermitian Systems with Multiple Right-Hand Sides. <i>SIAM Journal of Scientific Computing</i> , <b>2001</b> , 23, 761-780	2.6	14
42	Combined high-dimensional analysis of variance (HANOVA) and sequential probability ratio test (SPRT) to detect buried mines <b>2000</b> ,		2
41	Geometric parameter estimation with a multiscale template library <b>2000</b> , 4050, 397		1
40	Accuracy considerations in using the PML ABC with FDFD Helmholtz equation computation. <i>International Journal of Numerical Modelling: Electronic Networks, Devices and Fields</i> , <b>2000</b> , 13, 471-482	1	16
39	An adaptive multiscale inverse scattering approach to photothermal depth profilometry. <i>Circuits, Systems, and Signal Processing</i> , <b>2000</b> , 19, 339-363	2.2	6
38	A new shape-based method for object localization and characterization from scattered field data. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2000</b> , 38, 1682-1696	8.1	42
37	A shape reconstruction method for electromagnetic tomography using adjoint fields and level sets. <i>Inverse Problems</i> , <b>2000</b> , 16, 1119-1156	2.3	188
36	GPR imaging approaches for buried plastic land mine detection <b>2000</b> , 4038, 1485		5
35	A shape-based reconstruction technique for DPDW data. <i>Optics Express</i> , <b>2000</b> , 7, 481-91	3.3	13
34	Wavelet domain image restoration with adaptive edge-preserving regularization. <i>IEEE Transactions on Image Processing</i> , <b>2000</b> , 9, 597-608	8.7	89
33	A sliding window RLS-like adaptive algorithm for filtering alpha-stable noise. <i>IEEE Signal Processing Letters</i> , <b>2000</b> , 7, 86-89	3.2	28
32	A comparison study of linear reconstruction techniques for diffuse optical tomographic imaging of absorption coefficient. <i>Physics in Medicine and Biology</i> , <b>2000</b> , 45, 1051-70	3.8	85
31	Comparison of linear reconstruction techniques for 3D DPDW imaging of absorption coefficient <b>1999</b> ,		1
30	ELECTROMAGNETIC SCATTERING-BASED ARRAY PROCESSING METHODS FOR NEAR-FIELD OBJECT CHARACTERIZATION. <i>Journal of Electromagnetic Waves and Applications</i> , <b>1999</b> , 13, 1209-1236	1.3	2
29	Statistical signal restoration with 1/f wavelet domain prior models. <i>Signal Processing</i> , <b>1999</b> , 78, 289-307	4.4	2
28	Optimum PML ABC conductivity profile in FDFD. <i>IEEE Transactions on Magnetics</i> , <b>1999</b> , 35, 1506-1509	2	30
27	Statistically based methods for anomaly characterization in images from observations of scattered radiation. <i>IEEE Transactions on Image Processing</i> , <b>1999</b> , 8, 92-101	8.7	9

26	Efficient computational methods for wavelet domain signal restoration problems. <i>IEEE Transactions on Signal Processing</i> , <b>1999</b> , 47, 1184-1188	4.8	2
25	Direct object localization and characterization from diffuse photon-density wave data <b>1999</b> ,		3
24	Statistically based sequential detection of buried mines from array ground-penetrating radar data <b>1999</b> , 3710, 1063		4
23	Recursive T-matrix methods for scattering from multiple dielectric and metallic objects. <i>IEEE Transactions on Antennas and Propagation</i> , <b>1998</b> , 46, 672-678	4.9	10
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9	On the use of contrast stretch and adaptive filter to enhance ground penetrating radar imagery		2

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7	Adaptive two-pass median filter to remove impulsive noise	5
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