

# Jianwen Luo

## List of Publications by Year in Descending Order

**Source:** <https://exaly.com/author-pdf/2019618/jianwen-luo-publications-by-year.pdf>

**Version:** 2024-04-27

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

206  
papers

3,856  
citations

31  
h-index

54  
g-index

308  
ext. papers

4,854  
ext. citations

4  
avg, IF

5.75  
L-index

#	Paper	IF	Citations
206	Acceleration of reconstruction for compressed sensing based synthetic transmit aperture imaging by using in-phase/quadrature data. <i>Ultrasonics</i> , <b>2022</b> , 118, 106576	3.5	1
205	In Vivo assessment of hypertensive nephrosclerosis using ultrasound localization microscopy.. <i>Medical Physics</i> , <b>2022</b> ,	4.4	2
204	SAturation-recovery and Variable-flip-Angle (SAVA) based three-dimensional free-breathing cardiovascular magnetic resonance T mapping at 3T.. <i>NMR in Biomedicine</i> , <b>2022</b> , e4755	4.4	
203	A General Framework for Inverse Problem Solving using Self-Supervised Deep Learning: Validations in Ultrasound and Photoacoustic Image Reconstruction <b>2021</b> ,		5
202	Ultrasound Image Reconstruction by Self-Supervised Deep Neural Network A Study on Coherent Compounding Strategy <b>2021</b> ,		1
201	Localization of High-concentration Microbubbles for Ultrasound Localization Microscopy by Self-Supervised Deep Learning <b>2021</b> ,		1
200	Recovery of Full Synthetic Transmit Aperture Dataset with Well-preserved Phase Information by Self-supervised Deep Learning <b>2021</b> ,		1
199	Phase Constraint Improves Ultrasound Image Quality Reconstructed using Deep Neural Network <b>2021</b> ,		2
198	Deep weakly-supervised breast tumor segmentation in ultrasound images with explicit anatomical constraints.. <i>Medical Image Analysis</i> , <b>2021</b> , 76, 102315	15.4	2
197	Adaptive photoacoustic computed tomography. <i>Photoacoustics</i> , <b>2021</b> , 21, 100223	9	9
196	Photoacoustic imaging of in vivo hemodynamic responses to sodium nitroprusside. <i>Journal of Biophotonics</i> , <b>2021</b> , 14, e202000478	3.1	1
195	Ultrasound image reconstruction from plane wave radio-frequency data by self-supervised deep neural network. <i>Medical Image Analysis</i> , <b>2021</b> , 70, 102018	15.4	17
194	Improving the Subtype Classification of Non-small Cell Lung Cancer by Elastic Deformation Based Machine Learning. <i>Journal of Digital Imaging</i> , <b>2021</b> , 34, 605-617	5.3	0
193	Depth-recognizable time-domain fluorescence molecular tomography in reflective geometry. <i>Biomedical Optics Express</i> , <b>2021</b> , 12, 3806-3818	3.5	0
192	Deep image prior for undersampling high-speed photoacoustic microscopy. <i>Photoacoustics</i> , <b>2021</b> , 22, 100266	9	13
191	Reconstructing Undersampled Photoacoustic Microscopy Images Using Deep Learning. <i>IEEE Transactions on Medical Imaging</i> , <b>2021</b> , 40, 562-570	11.7	32
190	A Data-Driven Approach for High Frame Rate Synthetic Transmit Aperture Ultrasound Imaging. <i>Lecture Notes in Computer Science</i> , <b>2021</b> , 412-420	0.9	

189	ApodNet: Learning for High Frame Rate Synthetic Transmit Aperture Ultrasound Imaging. <i>IEEE Transactions on Medical Imaging</i> , <b>2021</b> , 40, 3190-3204	11.7	6
188	Quantitative Analysis of Pleural Line and B-lines in Lung Ultrasound Images for Severity Assessment of COVID-19 Pneumonia. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , <b>2021</b> , PP,	3.2	2
187	A Novel Normalized Cross-Correlation Speckle-Tracking Ultrasound Algorithm for the Evaluation of Diaphragm Deformation. <i>Frontiers in Medicine</i> , <b>2021</b> , 8, 612933	4.9	1
186	Highly-efficient quantitative fluorescence resonance energy transfer measurements based on deep learning. <i>Journal of Innovative Optical Health Sciences</i> , <b>2020</b> , 13, 2050021	1.2	0
185	Fast Randomized Singular Value Decomposition-Based Clutter Filtering for Shear Wave Imaging. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , <b>2020</b> , 67, 2363-2377	3.2	2
184	Deep Learning for Ultrasound Localization Microscopy. <i>IEEE Transactions on Medical Imaging</i> , <b>2020</b> , 39, 3064-3078	11.7	23
183	Tikhonov-regularization-based projecting sparsity pursuit method for fluorescence molecular tomography reconstruction. <i>Chinese Optics Letters</i> , <b>2020</b> , 18, 011701	2.2	5
182	Deep Unfolded Robust PCA With Application to Clutter Suppression in Ultrasound. <i>IEEE Transactions on Medical Imaging</i> , <b>2020</b> , 39, 1051-1063	11.7	61
181	Radiomics With Attribute Bagging for Breast Tumor Classification Using Multimodal Ultrasound Images. <i>Journal of Ultrasound in Medicine</i> , <b>2020</b> , 39, 361-371	2.9	11
180	Accurate detection of atrial fibrillation from 12-lead ECG using deep neural network. <i>Computers in Biology and Medicine</i> , <b>2020</b> , 116, 103378	7	24
179	Spatial Angular Compounding With Affine-Model-Based Optical Flow for Improvement of Motion Estimation. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , <b>2019</b> , 66, 701-716	3.2	4
178	Super-Resolution Ultrasound Imaging by Sparse Bayesian Learning Method. <i>IEEE Access</i> , <b>2019</b> , 7, 47197-47205	3.2	2
177	Coded Excitation for Crosstalk Suppression in Multi-line Transmit Beamforming: Simulation Study and Experimental Validation. <i>Applied Sciences (Switzerland)</i> , <b>2019</b> , 9, 486	2.6	5
176	Feature coupling photoacoustic computed tomography for joint reconstruction of initial pressure and sound speed. <i>Biomedical Optics Express</i> , <b>2019</b> , 10, 3447-3462	3.5	15
175	Learning the implicit strain reconstruction in ultrasound elastography using privileged information. <i>Medical Image Analysis</i> , <b>2019</b> , 58, 101534	15.4	38
174	Evaluating HIFU-mediated local drug release using thermal strain imaging: Phantom and preliminary in-vivo studies. <i>Medical Physics</i> , <b>2019</b> , 46, 3864-3876	4.4	7
173	Streak artifact suppression in photoacoustic computed tomography using adaptive back projection. <i>Biomedical Optics Express</i> , <b>2019</b> , 10, 4803-4814	3.5	7
172	Thermal Memory Based Photoacoustic Imaging of Temperature. <i>Optica</i> , <b>2019</b> , 6, 198-205	8.6	22

171	A Comparative Study of Direct and Iterative Inversion Approaches to Determine the Spatial Shear Modulus Distribution of Elastic Solids. <i>International Journal of Applied Mechanics</i> , <b>2019</b> , 11, 1950097	2.4	6
170	Non-rigid Motion Correction for Ultrasound Localization Microscopy of the Liver in vivo <b>2019</b> ,		6
169	Interoperator Reproducibility of Carotid Elastography for Identification of Vulnerable Atherosclerotic Plaques. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , <b>2019</b> , 66, 505-516	3.2	6
168	A three-dimensional free-breathing sequence for simultaneous myocardial T and T mapping. <i>Magnetic Resonance in Medicine</i> , <b>2019</b> , 81, 1031-1043	4.4	16
167	Compressed sensing reconstruction of synthetic transmit aperture dataset for volumetric diverging wave imaging. <i>Physics in Medicine and Biology</i> , <b>2019</b> , 64, 025013	3.8	6
166	2-D Myocardial Deformation Imaging Based on RF-Based Nonrigid Image Registration. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , <b>2018</b> , 65, 1037-1047	3.2	8
165	Generalized Adaptive Gaussian Markov Random Field for X-Ray Luminescence Computed Tomography. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2018</b> , 65, 2130-2133	5	12
164	Quantitative evaluation of graded hindlimb ischemia based on pharmacokinetic modelling and hemodynamic analysis of indocyanine green. <i>Physiological Measurement</i> , <b>2018</b> , 39, 015009	2.9	
163	Compressed Sensing Based Synthetic Transmit Aperture for Phased Array Using Hadamard Encoded Diverging Wave Transmissions. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , <b>2018</b> , 65, 1141-1152	3.2	9
162	Robust Segmentation of Intima-Media Borders With Different Morphologies and Dynamics During the Cardiac Cycle. <i>IEEE Journal of Biomedical and Health Informatics</i> , <b>2018</b> , 22, 1571-1582	7.2	49
161	Compressed Sensing Based Synthetic Transmit Aperture Imaging: Validation in a Convex Array Configuration. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , <b>2018</b> , 65, 300-315	3.2	14
160	Correcting the limited view in optical-resolution photoacoustic microscopy. <i>Journal of Biophotonics</i> , <b>2018</b> , 11, e201700196	3.1	12
159	Doppler-Based Motion Compensation Strategies for 3-D Diverging Wave Compounding and Multiplane-Transmit Beamforming: A Simulation Study. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , <b>2018</b> , 65, 1631-1642	3.2	5
158	End-to-end deep neural network for optical inversion in quantitative photoacoustic imaging. <i>Optics Letters</i> , <b>2018</b> , 43, 2752-2755	3	65
157	Deep-tissue temperature mapping by multi-illumination photoacoustic tomography aided by a diffusion optical model: a numerical study. <i>Journal of Biomedical Optics</i> , <b>2018</b> , 23, 1-10	3.5	5
156	Reconstruction of high-resolution early-photon tomography based on the first derivative of temporal point spread function. <i>Journal of Biomedical Optics</i> , <b>2018</b> , 23, 1-4	3.5	6
155	A net-shaped multicellular formation facilitates the maturation of hPSC-derived cardiomyocytes through mechanical and electrophysiological stimuli. <i>Aging</i> , <b>2018</b> , 10, 532-548	5.6	5
154	Enhancing in vivo renal ischemia assessment by high-dynamic-range fluorescence molecular imaging. <i>Journal of Biomedical Optics</i> , <b>2018</b> , 23, 1-9	3.5	

153	Cardiac Deformation Imaging Based on Coherent Compounding of Diverging Waves with Coded Excitation <b>2018</b> ,		1
152	<b>2018</b> ,		5
151	2D Motion Estimation Based on Diverging Wave Coherent Compounding and Transverse Oscillations <b>2018</b> ,		1
150	High-Quality Reconstruction of Plane-Wave Imaging Using Generative Adversarial Network <b>2018</b> ,		16
149	A Deep Learning Trial on Transient Elastography for Assessment of Liver Fibrosis <b>2018</b> ,		2
148	Electromagnetic tracking-based freehand 3D quasi-static elastography with 1D linear array: a phantom study. <i>Physics in Medicine and Biology</i> , <b>2018</b> , 63, 245006	3.8	2
147	Three-dimensional free breathing whole heart cardiovascular magnetic resonance T mapping at 3T. <i>Journal of Cardiovascular Magnetic Resonance</i> , <b>2018</b> , 20, 64	6.9	16
146	Direct Reconstruction of Ultrasound Elastography Using an End-to-End Deep Neural Network. <i>Lecture Notes in Computer Science</i> , <b>2018</b> , 374-382	0.9	22
145	Diverging wave compounding with spatio-temporal encoding using orthogonal Golay pairs for high frame rate imaging. <i>Ultrasonics</i> , <b>2018</b> , 89, 155-165	3.5	9
144	Multiparametric evaluation of hindlimb ischemia using time-series indocyanine green fluorescence imaging. <i>Journal of Biophotonics</i> , <b>2017</b> , 10, 456-464	3.1	8
143	Non-Invasive Identification of Vulnerable Atherosclerotic Plaques Using Texture Analysis in Ultrasound Carotid Elastography: An InVivo Feasibility Study Validated by Magnetic Resonance Imaging. <i>Ultrasound in Medicine and Biology</i> , <b>2017</b> , 43, 817-830	3.5	16
142	A Noninvasive Sonographic Study of Multisite Atherosclerosis in an Elderly Chinese Population. <i>Journal of Ultrasound in Medicine</i> , <b>2017</b> , 36, 639-647	2.9	3
141	Feasibility of Multiplane-Transmit Beamforming for Real-Time Volumetric Cardiac Imaging: A Simulation Study. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , <b>2017</b> , 64, 648-659	3.2	6
140	Guided waves in pre-stressed hyperelastic plates and tubes: Application to the ultrasound elastography of thin-walled soft materials. <i>Journal of the Mechanics and Physics of Solids</i> , <b>2017</b> , 102, 67-79	5	23
139	Coded excitation for diverging wave cardiac imaging: a feasibility study. <i>Physics in Medicine and Biology</i> , <b>2017</b> , 62, 1565-1584	3.8	10
138	Novel Method for Vessel Cross-Sectional Shear Wave Imaging. <i>Ultrasound in Medicine and Biology</i> , <b>2017</b> , 43, 1520-1532	3.5	11
137	An Inverse Method to Determine Arterial Stiffness with Guided Axial Waves. <i>Ultrasound in Medicine and Biology</i> , <b>2017</b> , 43, 505-516	3.5	15
136	A Systematic Investigation of Lateral Estimation Using Various Interpolation Approaches in Conventional Ultrasound Imaging. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , <b>2017</b> , 64, 1149-1160	3.2	17

135	Spread spectrum time-resolved diffuse optical measurement system for enhanced sensitivity in detecting human brain activity. <i>Journal of Biomedical Optics</i> , <b>2017</b> , 22, 45005	3.5	9
134	Excitation-resolved multispectral method for imaging pharmacokinetic parameters in dynamic fluorescent molecular tomography. <i>Journal of Biomedical Optics</i> , <b>2017</b> , 22, 46003	3.5	1
133	Effects of temperature on multiparametric evaluation of hindlimb ischemia with dynamic fluorescence imaging. <i>Journal of Biophotonics</i> , <b>2017</b> , 10, 811-820	3.1	5
132	A Compressed Sensing Strategy for Synthetic Transmit Aperture Ultrasound Imaging. <i>IEEE Transactions on Medical Imaging</i> , <b>2017</b> , 36, 878-891	11.7	32
131	An ultrasound elastography method to determine the local stiffness of arteries with guided circumferential waves. <i>Journal of Biomechanics</i> , <b>2017</b> , 51, 97-104	2.9	14
130	Tumor-homing, pH- and ultrasound-responsive polypeptide-doxorubicin nanoconjugates overcome doxorubicin resistance in cancer therapy. <i>Journal of Controlled Release</i> , <b>2017</b> , 264, 66-75	11.7	44
129	Performance optimization of lateral displacement estimation with spatial angular compounding. <i>Ultrasonics</i> , <b>2017</b> , 73, 9-21	3.5	9
128	Cone Beam X-ray Luminescence Computed Tomography Based on Bayesian Method. <i>IEEE Transactions on Medical Imaging</i> , <b>2017</b> , 36, 225-235	11.7	30
127	Self-prior strategy for organ reconstruction in fluorescence molecular tomography. <i>Biomedical Optics Express</i> , <b>2017</b> , 8, 4671-4686	3.5	9
126	Facilitating in vivo tumor localization by principal component analysis based on dynamic fluorescence molecular imaging. <i>Journal of Biomedical Optics</i> , <b>2017</b> , 22, 1-9	3.5	3
125	Evaluating the Significance of Viscoelasticity in Diagnosing Early-Stage Liver Fibrosis with Transient Elastography. <i>PLoS ONE</i> , <b>2017</b> , 12, e0170073	3.7	9
124	Unmixing multiple adjacent fluorescent targets with multispectral excited fluorescence molecular tomography. <i>Applied Optics</i> , <b>2016</b> , 55, 4843-9	0.2	6
123	Tunable narrowband volume holographic imaging spectrometer for macroscopic fluorescence molecular tomography. <i>Optical Engineering</i> , <b>2016</b> , 55, 123113	1.1	1
122	Noninvasive measurement of regional pulse wave velocity in human ascending aorta with ultrasound imaging: an in-vivo feasibility study. <i>Journal of Hypertension</i> , <b>2016</b> , 34, 2026-37	1.9	10
121	Fast direct reconstruction strategy of dynamic fluorescence molecular tomography using graphics processing units. <i>Journal of Biomedical Optics</i> , <b>2016</b> , 21, 66010	3.5	3
120	In vivo simultaneous multispectral fluorescence imaging with spectral multiplexed volume holographic imaging system. <i>Journal of Biomedical Optics</i> , <b>2016</b> , 21, 60502	3.5	3
119	Shape-based reconstruction of dynamic fluorescent yield with a level set method. <i>BioMedical Engineering OnLine</i> , <b>2016</b> , 15, 6	4.1	3
118	Wide-Angle Tissue Doppler Imaging at High Frame Rate Using Multi-Line Transmit Beamforming: An Experimental Validation In Vivo. <i>IEEE Transactions on Medical Imaging</i> , <b>2016</b> , 35, 521-8	11.7	25

117	High frame rate and high line density ultrasound imaging for local pulse wave velocity estimation using motion matching: A feasibility study on vessel phantoms. <i>Ultrasonics</i> , <b>2016</b> , 67, 41-54	3.5	8
116	Iterative Correction Scheme Based on Discrete Cosine Transform and L1 Regularization for Fluorescence Molecular Tomography With Background Fluorescence. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2016</b> , 63, 1107-15	5	11
115	Comparison of Different Pulse Waveforms for Local Pulse Wave Velocity Measurement in Healthy and Hypertensive Common Carotid Arteries in Vivo. <i>Ultrasound in Medicine and Biology</i> , <b>2016</b> , 42, 1111-23	3.5	16
114	Ultrasound-Based Carotid Elastography for Detection of Vulnerable Atherosclerotic Plaques Validated by Magnetic Resonance Imaging. <i>Ultrasound in Medicine and Biology</i> , <b>2016</b> , 42, 365-77	3.5	39
113	Early-photon guided reconstruction method for time-domain fluorescence lifetime tomography. <i>Chinese Optics Letters</i> , <b>2016</b> , 14, 071702-71706	2.2	6
112	Nonlinear greedy sparsity-constrained algorithm for direct reconstruction of fluorescence molecular lifetime tomography. <i>Biomedical Optics Express</i> , <b>2016</b> , 7, 1210-26	3.5	6
111	Automatic selection of regularization parameters for dynamic fluorescence molecular tomography: a comparison of L-curve and U-curve methods. <i>Biomedical Optics Express</i> , <b>2016</b> , 7, 5021-5041	3.5	9
110	Identification of early atherosclerotic lesions in carotid arteries with quantitative characteristics measured by 3D MRI. <i>Journal of Magnetic Resonance Imaging</i> , <b>2016</b> , 44, 1270-1276	5.6	4
109	Spectral selective fluorescence molecular imaging with volume holographic imaging system. <i>Journal of Innovative Optical Health Sciences</i> , <b>2016</b> , 09, 1650010	1.2	4
108	Self-guided reconstruction for time-domain fluorescence molecular lifetime tomography. <i>Journal of Biomedical Optics</i> , <b>2016</b> , 21, 126012	3.5	4
107	2D RF-based non-rigid image registration for cardiac motion estimation: Comparison against block matching <b>2016</b> ,		3
106	Reconstruction of in vivo fluorophore concentration variation with structural priors and smooth penalty. <i>Applied Optics</i> , <b>2016</b> , 55, 2732-40	0.2	2
105	Elastic Cherenkov effects in transversely isotropic soft materials-II: Ex vivo and in vivo experiments. <i>Journal of the Mechanics and Physics of Solids</i> , <b>2016</b> , 94, 181-190	5	11
104	Reduction of blurring in broadband volume holographic imaging using a deconvolution method. <i>Biomedical Optics Express</i> , <b>2016</b> , 7, 3124-38	3.5	2
103	Nanohybrid liposomal cerasomes with good physiological stability and rapid temperature responsiveness for high intensity focused ultrasound triggered local chemotherapy of cancer. <i>ACS Nano</i> , <b>2015</b> , 9, 1280-93	16.7	108
102	Full-direct method for imaging pharmacokinetic parameters in dynamic fluorescence molecular tomography. <i>Applied Physics Letters</i> , <b>2015</b> , 106, 081110	3.4	12
101	Bayesian Framework Based Direct Reconstruction of Fluorescence Parametric Images. <i>IEEE Transactions on Medical Imaging</i> , <b>2015</b> , 34, 1378-91	11.7	18
100	Reconstruction of fluorophore concentration variation in dynamic fluorescence molecular tomography. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2015</b> , 62, 138-44	5	10

99	A flexible ultrasound transducer array with micro-machined bulk PZT. <i>Sensors</i> , <b>2015</b> , 15, 2538-47	3.8	27
98	Acceleration of dynamic fluorescence molecular tomography with principal component analysis. <i>Biomedical Optics Express</i> , <b>2015</b> , 6, 2036-55	3.5	6
97	Fluorescence molecular tomography reconstruction via discrete cosine transform-based regularization. <i>Journal of Biomedical Optics</i> , <b>2015</b> , 20, 55004	3.5	18
96	Direct reconstruction method for time-domain fluorescence molecular lifetime tomography. <i>Optics Letters</i> , <b>2015</b> , 40, 4038-41	3	7
95	Performance comparison of rigid and affine models for motion estimation using ultrasound radio-frequency signals. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , <b>2015</b> , 62, 1928-43	3.2	18
94	Fast reconstruction of fluorophore concentration variation based on the derivation of the diffusion equation. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , <b>2015</b> , 32, 1993-2001	1.8	8
93	Image reconstruction for synchronous data acquisition in fluorescence molecular tomography. <i>Journal of X-Ray Science and Technology</i> , <b>2015</b> , 23, 463-72	2.1	
92	Compressed sensing for high frame rate, high resolution and high contrast ultrasound imaging. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2015</b> , 2015, 1552-5	0.9	7
91	Robotized High Intensity Focused Ultrasound (HIFU) system for treatment of mobile organs using motion tracking by ultrasound imaging: An in vitro study. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2015</b> , 2015, 2571-5	0.9	6
90	A two-step optical flow method for strain estimation in elastography: Simulation and phantom study. <i>Ultrasonics</i> , <b>2014</b> , 54, 990-6	3.5	27
89	A direct method with structural priors for imaging pharmacokinetic parameters in dynamic fluorescence molecular tomography. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2014</b> , 61, 986-90	5	25
88	Fast reconstruction of fluorescence molecular tomography via a permissible region extraction strategy. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , <b>2014</b> , 31, 1886-94	1.8	12
87	Ultrasound signal wavelet analysis to quantify the microstructures of normal and frozen tissues in vitro. <i>Cryobiology</i> , <b>2014</b> , 68, 29-34	2.7	3
86	In vivo tomographic imaging of lung colonization of tumour in mouse with simultaneous fluorescence and X-ray CT. <i>Journal of Biophotonics</i> , <b>2014</b> , 7, 110-6	3.1	7
85	Monitoring of tumor response to cisplatin with simultaneous fluorescence and positron emission tomography: a feasibility study. <i>Journal of Biophotonics</i> , <b>2014</b> , 7, 889-96	3.1	2
84	Safety of fast cardiac imaging using multiple transmit beams: Experimental verification <b>2014</b> ,		4
83	A feasibility study of carotid elastography for risk assessment of atherosclerotic plaques validated by magnetic resonance imaging <b>2014</b> ,		1
82	Depth compensation in fluorescence molecular tomography using an adaptive support driven reweighted L1-minimization algorithm <b>2014</b> ,		3



81	Subsurface fluorescence molecular tomography with prior information. <i>Applied Optics</i> , <b>2014</b> , 53, 402-9	1.7	4
80	An adaptive support driven reweighted L1-regularization algorithm for fluorescence molecular tomography. <i>Biomedical Optics Express</i> , <b>2014</b> , 5, 4039-52	3.5	15
79	Wide-angle tissue Doppler imaging at high frame rate using multi-line transmit beamforming: An in-vivo pilot study <b>2014</b> ,		1
78	Resolving fluorophores by unmixing multispectral fluorescence tomography with independent component analysis. <i>Physics in Medicine and Biology</i> , <b>2014</b> , 59, 5025-42	3.8	12
77	Effects of key parameters on the accuracy and precision of local pulse wave velocity measurement by ultrasound imaging. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2014</b> , 2014, 2877-80	0.9	1
76	Enhanced spatial resolution in fluorescence molecular tomography using restarted L1-regularized nonlinear conjugate gradient algorithm. <i>Journal of Biomedical Optics</i> , <b>2014</b> , 19, 046018	3.5	30
75	A regularization-free elasticity reconstruction method for ultrasound elastography with freehand scan. <i>BioMedical Engineering OnLine</i> , <b>2014</b> , 13, 132	4.1	16
74	Modified forward model for eliminating the time-varying impact in fluorescence molecular tomography. <i>Journal of Biomedical Optics</i> , <b>2014</b> , 19, 056012	3.5	7
73	Effects of parameters on the accuracy and precision of ultrasound-based local pulse wave velocity measurement: a simulation study. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , <b>2014</b> , 61, 2001-18	3.2	15
72	In vivo tomographic imaging with fluorescence and MRI using tumor-targeted dual-labeled nanoparticles. <i>International Journal of Nanomedicine</i> , <b>2014</b> , 9, 33-41	7.3	44
71	An adaptive Tikhonov regularization method for fluorescence molecular tomography. <i>Medical and Biological Engineering and Computing</i> , <b>2013</b> , 51, 849-58	3.1	22
70	A hybrid reconstruction algorithm for fluorescence tomography using Kirchhoff approximation and finite element method. <i>Medical and Biological Engineering and Computing</i> , <b>2013</b> , 51, 7-17	3.1	7
69	MAP estimation with structural priors for fluorescence molecular tomography. <i>Physics in Medicine and Biology</i> , <b>2013</b> , 58, 351-72	3.8	28
68	. <i>IEEE Transactions on Multimedia</i> , <b>2013</b> , 15, 1025-1030	6.6	4
67	360° Fourier transform profilometry in surface reconstruction for fluorescence molecular tomography. <i>IEEE Journal of Biomedical and Health Informatics</i> , <b>2013</b> , 17, 681-9	7.2	7
66	A regularization-free Young's modulus reconstruction algorithm for ultrasound elasticity imaging. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2013</b> , 2013, 1132-5	0.9	1
65	Pulse wave imaging in normal, hypertensive and aneurysmal human aortas in vivo: a feasibility study. <i>Physics in Medicine and Biology</i> , <b>2013</b> , 58, 4549-62	3.8	51
64	A fast surface reconstruction method for fluorescence molecular tomography based on cross-beam edge back projection. <i>Measurement: Journal of the International Measurement Confederation</i> , <b>2013</b> , 46, 1565-1571	4.6	3

63	The effect of controlled expression of VEGF by transduced myoblasts in a cardiac patch on vascularization in a mouse model of myocardial infarction. <i>Biomaterials</i> , <b>2013</b> , 34, 393-401	15.6	65
62	Accelerated image reconstruction in fluorescence molecular tomography using dimension reduction. <i>Biomedical Optics Express</i> , <b>2013</b> , 4, 1-14	3.5	23
61	Separating structures of different fluorophore concentrations by principal component analysis on multispectral excitation-resolved fluorescence tomography images. <i>Biomedical Optics Express</i> , <b>2013</b> , 4, 1829-45	3.5	14
60	Efficient L1 regularization-based reconstruction for fluorescent molecular tomography using restarted nonlinear conjugate gradient. <i>Optics Letters</i> , <b>2013</b> , 38, 3696-9	3	33
59	Imaging of pharmacokinetic rates of indocyanine green in mouse liver with a hybrid fluorescence molecular tomography/x-ray computed tomography system. <i>Journal of Biomedical Optics</i> , <b>2013</b> , 18, 040503	3.5	28
58	. <i>IEEE Transactions on Multimedia</i> , <b>2013</b> , 15, 1031-1038	6.6	9
57	Greedy reconstruction algorithm for fluorescence molecular tomography by means of truncated singular value decomposition conversion. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , <b>2013</b> , 30, 437-47	1.8	13
56	Fast photon-boundary intersection computation for Monte Carlo simulation of photon migration. <i>Optical Engineering</i> , <b>2013</b> , 52, 019001	1.1	
55	Acceleration of early-photon fluorescence molecular tomography with graphics processing units. <i>Computational and Mathematical Methods in Medicine</i> , <b>2013</b> , 2013, 297291	2.8	6
54	Arterial stiffness identification of the human carotid artery using the stress-strain relationship in vivo. <i>Ultrasonics</i> , <b>2012</b> , 52, 402-11	3.5	121
53	Reconstruction of fluorescence molecular tomography using a neighborhood regularization. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2012</b> , 59, 1799-803	5	7
52	Pulse wave imaging of the human carotid artery: an in vivo feasibility study. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , <b>2012</b> , 59, 174-81	3.2	87
51	Biomimetic perfusion and electrical stimulation applied in concert improved the assembly of engineered cardiac tissue. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , <b>2012</b> , 6, e12-23	4.4	101
50	4-D reconstruction for dynamic fluorescence diffuse optical tomography. <i>IEEE Transactions on Medical Imaging</i> , <b>2012</b> , 31, 2120-32	11.7	22
49	Single-heartbeat electromechanical wave imaging with optimal strain estimation using temporally unequipped acquisition sequences. <i>Physics in Medicine and Biology</i> , <b>2012</b> , 57, 1095-112	3.8	25
48	Tomographic imaging of ratiometric fluorescence resonance energy transfer in scattering media. <i>Applied Optics</i> , <b>2012</b> , 51, 5044-50	1.7	
47	Weighted depth compensation algorithm for fluorescence molecular tomography reconstruction. <i>Applied Optics</i> , <b>2012</b> , 51, 8883-92	1.7	6
46	Principal component analysis of dynamic fluorescence tomography in measurement space. <i>Physics in Medicine and Biology</i> , <b>2012</b> , 57, 2727-42	3.8	8

45	Monitoring of tumor response to cisplatin by subsurface fluorescence molecular tomography. <i>Journal of Biomedical Optics</i> , <b>2012</b> , 17, 040504	3.5	9
44	INFLUENCE OF LIMITED-PROJECTION ON FLUORESCENCE MOLECULAR TOMOGRAPHY. <i>Journal of Innovative Optical Health Sciences</i> , <b>2012</b> , 05, 1250020	1.2	3
43	Physiologic cardiovascular strain and intrinsic wave imaging. <i>Annual Review of Biomedical Engineering</i> , <b>2011</b> , 13, 477-505	12	31
42	In-vivo Pulse Wave Imaging for arterial stiffness measurement under normal and pathological conditions. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2011</b> , 2011, 567-70	0.9	8
41	Performance assessment of HIFU lesion detection by harmonic motion imaging for focused ultrasound (HMIFU): a 3-D finite-element-based framework with experimental validation. <i>Ultrasound in Medicine and Biology</i> , <b>2011</b> , 37, 2013-27	3.5	31
40	AORTIC PULSE WAVE VELOCITY MEASURED BY PULSE WAVE IMAGING (PWI): A COMPARISON WITH APPLANATION TONOMOMETRY. <i>Artery Research</i> , <b>2011</b> , 5, 65-71	2.2	25
39	Imaging of wall motion coupled with blood flow velocity in the heart and vessels in vivo: a feasibility study. <i>Ultrasound in Medicine and Biology</i> , <b>2011</b> , 37, 980-95	3.5	65
38	Simultaneous fluorescence and positron emission tomography for in vivo imaging of small animals. <i>Journal of Biomedical Optics</i> , <b>2011</b> , 16, 120511	3.5	8
37	A comprehensive framework for Harmonic Motion Imaging for Focused Ultrasound (HMIFU) with ex vivo validation <b>2011</b> ,		1
36	<b>2011</b> ,		2
35	Non-invasive measurement of local pulse pressure by pulse wave-based ultrasound manometry (PWUM). <i>Physiological Measurement</i> , <b>2011</b> , 32, 1653-62	2.9	26
34	Simulation study of amplitude-modulated (AM) harmonic motion imaging (HMI) for stiffness contrast quantification with experimental validation. <i>Ultrasonic Imaging</i> , <b>2010</b> , 32, 154-76	1.9	18
33	A fast motion and strain estimation method <b>2010</b> ,		2
32	Response to "Potentials and Pitfalls of Local PWV Measurements". <i>American Journal of Hypertension</i> , <b>2010</b> , 23, 935-935	2.3	0
31	A fast normalized cross-correlation calculation method for motion estimation. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , <b>2010</b> , 57, 1347-57	3.2	215
30	Pulse wave imaging for noninvasive and quantitative measurement of arterial stiffness in vivo. <i>American Journal of Hypertension</i> , <b>2010</b> , 23, 393-8	2.3	117
29	Simulation of HMIFU (Harmonic Motion Imaging for Focused Ultrasound) with in-vitro validation <b>2010</b> ,		3
28	Noninvasive electromechanical wave imaging and conduction-relevant velocity estimation in vivo. <i>Ultrasonics</i> , <b>2010</b> , 50, 208-15	3.5	30

27	In vivo characterization of the aortic wall stress-strain relationship. <i>Ultrasonics</i> , <b>2010</b> , 50, 654-65	3.5	36
26	Characterization of the stress-strain relationship of the abdominal aortic wall in vivo. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2009</b> , 2009, 1960-3	0.9	1
25	Key parameters for precise lateral displacement estimation in ultrasound elastography. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2009</b> , 2009, 4407-10	0.9	2
24	Pulse wave imaging of normal and aneurysmal abdominal aortas in vivo. <i>IEEE Transactions on Medical Imaging</i> , <b>2009</b> , 28, 477-86	11.7	77
23	Effects of various parameters on lateral displacement estimation in ultrasound elastography. <i>Ultrasound in Medicine and Biology</i> , <b>2009</b> , 35, 1352-66	3.5	49
22	Fundamental analysis of lateral displacement estimation quality in ultrasound elastography <b>2009</b> ,		4
21	Fundamental performance assessment of 2-D myocardial elastography in a phased-array configuration. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , <b>2009</b> , 56, 2320-7	3.2	18
20	A composite high-frame-rate system for clinical cardiovascular imaging. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , <b>2008</b> , 55, 2221-33	3.2	72
19	<b>2008</b> ,		1
18	High-frame rate, full-view myocardial elastography with automated contour tracking in murine left ventricles in vivo. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , <b>2008</b> , 55, 240-8	3.2	61
17	Mapping of Regional Cancerous Tissue Mechanical Property Changes Using Harmonic Motion Imaging <b>2007</b> ,		1
16	Myocardial elastography at both high temporal and spatial resolution for the detection of infarcts. <i>Ultrasound in Medicine and Biology</i> , <b>2007</b> , 33, 1206-23	3.5	64
15	AUTOMATED CONTOUR TRACKING FOR MYOCARDIAL ELASTOGRAPHY IN VIVO <b>2007</b> ,		2
14	10B-6 A Composite Imaging Technique for High Frame-Rate and Full-View Cardiovascular Ultrasound and Elasticity Imaging. <i>Proceedings IEEE Ultrasonics Symposium</i> , <b>2007</b> ,		7
13	P4A-2 An In-Vivo Study of Frame Rate Optimization for Myocardial Elastography. <i>Proceedings IEEE Ultrasonics Symposium</i> , <b>2007</b> ,		5
12	A novel noninvasive technique for pulse-wave imaging and characterization of clinically-significant vascular mechanical properties in vivo. <i>Ultrasonic Imaging</i> , <b>2007</b> , 29, 137-54	1.9	79
11	11B-1 Noninvasive Electromechanical Wave Imaging and Conduction Velocity Estimation In Vivo. <i>Proceedings IEEE Ultrasonics Symposium</i> , <b>2007</b> ,		3
10	Detection of murine infarcts using myocardial elastography at both high temporal and spatial resolution. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , <b>2006</b> , 2006, 1552-5		4

9	2I-4 Pulse Wave Imaging in Murine Abdominal Aortas: A Feasibility Study <b>2006</b> ,			1
8	Imaging the mechanics and electromechanics of the heart. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , <b>2006</b> , Suppl, 6648-51			13
7	Application of the wavelet transforms on axial strain calculation in ultrasound elastography. <i>Progress in Natural Science: Materials International</i> , <b>2006</b> , 16, 942-947	3.6		32
6	Elasticity reconstruction for ultrasound elastography using a radial compression: an inverse approach. <i>Ultrasonics</i> , <b>2006</b> , 44 Suppl 1, e195-8	3.5		12
5	SavitzkyGolay smoothing and differentiation filter for even number data. <i>Signal Processing</i> , <b>2005</b> , 85, 1429-1434	4.4		177
4	Properties of SavitzkyGolay digital differentiators <b>2005</b> , 15, 122-136			183
3	Axial strain calculation using a low-pass digital differentiator in ultrasound elastography. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , <b>2004</b> , 51, 1119-27	3.2		81
2	Theoretical analysis of tissue axial stretching model in elastography. <i>Progress in Natural Science: Materials International</i> , <b>2004</b> , 14, 430-438	3.6		
1	Estimation and reduction of decorrelation effect due to tissue lateral displacement in elastography. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , <b>2002</b> , 49, 541-9	3.2		6