Jianwen Luo

List of Publications by Citations

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	A fast normalized cross-correlation calculation method for motion estimation. *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, **2010**, 57, 1347-57	3.2	215
205	Properties of Savitzky□Golay digital differentiators **2005**, 15, 122-136		183
204	Savitzky□Golay smoothing and differentiation filter for even number data. *Signal Processing*, **2005**, 85, 1429-1434	4.4	177
203	Arterial stiffness identification of the human carotid artery using the stress-strain relationship in vivo. *Ultrasonics*, **2012**, 52, 402-11	3.5	121
202	Pulse wave imaging for noninvasive and quantitative measurement of arterial stiffness in vivo. *American Journal of Hypertension*, **2010**, 23, 393-8	2.3	117
201	Nanohybrid liposomal cerasomes with good physiological stability and rapid temperature responsiveness for high intensity focused ultrasound triggered local chemotherapy of cancer. *ACS Nano*, **2015**, 9, 1280-93	16.7	108
200	Biomimetic perfusion and electrical stimulation applied in concert improved the assembly of engineered cardiac tissue. *Journal of Tissue Engineering and Regenerative Medicine*, **2012**, 6, e12-23	4.4	101
199	Pulse wave imaging of the human carotid artery: an in vivo feasibility study. *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, **2012**, 59, 174-81	3.2	87
198	Axial strain calculation using a low-pass digital differentiator in ultrasound elastography. *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, **2004**, 51, 1119-27	3.2	81
197	A novel noninvasive technique for pulse-wave imaging and characterization of clinically-significant vascular mechanical properties in vivo. *Ultrasonic Imaging*, **2007**, 29, 137-54	1.9	79
196	Pulse wave imaging of normal and aneurysmal abdominal aortas in vivo. *IEEE Transactions on Medical Imaging*, **2009**, 28, 477-86	11.7	77
195	A composite high-frame-rate system for clinical cardiovascular imaging. *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, **2008**, 55, 2221-33	3.2	72
194	End-to-end deep neural network for optical inversion in quantitative photoacoustic imaging. *Optics Letters*, **2018**, 43, 2752-2755	3	65
193	The effect of controlled expression of VEGF by transduced myoblasts in a cardiac patch on vascularization in a mouse model of myocardial infarction. *Biomaterials*, **2013**, 34, 393-401	15.6	65
192	Imaging of wall motion coupled with blood flow velocity in the heart and vessels in vivo: a feasibility study. *Ultrasound in Medicine and Biology*, **2011**, 37, 980-95	3.5	65
191	Myocardial elastography at both high temporal and spatial resolution for the detection of infarcts. *Ultrasound in Medicine and Biology*, **2007**, 33, 1206-23	3.5	64
190	High-frame rate, full-view myocardial elastography with automated contour tracking in murine left ventricles in vivo. *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, **2008**, 55, 240-8	3.2	61

189	Deep Unfolded Robust PCA With Application to Clutter Suppression in Ultrasound. *IEEE Transactions on Medical Imaging*, **2020**, 39, 1051-1063	11.7	61
188	Pulse wave imaging in normal, hypertensive and aneurysmal human aortas in vivo: a feasibility study. *Physics in Medicine and Biology*, **2013**, 58, 4549-62	3.8	51
187	Robust Segmentation of Intima-Media Borders With Different Morphologies and Dynamics During the Cardiac Cycle. *IEEE Journal of Biomedical and Health Informatics*, **2018**, 22, 1571-1582	7.2	49
186	Effects of various parameters on lateral displacement estimation in ultrasound elastography. *Ultrasound in Medicine and Biology*, **2009**, 35, 1352-66	3.5	49
185	Tumor-homing, pH- and ultrasound-responsive polypeptide-doxorubicin nanoconjugates overcome doxorubicin resistance in cancer therapy. *Journal of Controlled Release*, **2017**, 264, 66-75	11.7	44
184	In vivo tomographic imaging with fluorescence and MRI using tumor-targeted dual-labeled nanoparticles. *International Journal of Nanomedicine*, **2014**, 9, 33-41	7.3	44
183	Ultrasound-Based Carotid Elastography for Detection of Vulnerable Atherosclerotic Plaques Validated by Magnetic Resonance Imaging. *Ultrasound in Medicine and Biology*, **2016**, 42, 365-77	3.5	39
182	Learning the implicit strain reconstruction in ultrasound elastography using privileged information. *Medical Image Analysis*, **2019**, 58, 101534	15.4	38
181	In vivo characterization of the aortic wall stress-strain relationship. *Ultrasonics*, **2010**, 50, 654-65	3.5	36
180	Efficient L1 regularization-based reconstruction for fluorescent molecular tomography using restarted nonlinear conjugate gradient. *Optics Letters*, **2013**, 38, 3696-9	3	33
179	A Compressed Sensing Strategy for Synthetic Transmit Aperture Ultrasound Imaging. *IEEE Transactions on Medical Imaging*, **2017**, 36, 878-891	11.7	32
178	Application of the wavelet transforms on axial strain calculation in ultrasound elastography. *Progress in Natural Science: Materials International*, **2006**, 16, 942-947	3.6	32
177	Reconstructing Undersampled Photoacoustic Microscopy Images Using Deep Learning. *IEEE Transactions on Medical Imaging*, **2021**, 40, 562-570	11.7	32
176	Physiologic cardiovascular strain and intrinsic wave imaging. *Annual Review of Biomedical Engineering*, **2011**, 13, 477-505	12	31
175	Performance assessment of HIFU lesion detection by harmonic motion imaging for focused ultrasound (HMIFU): a 3-D finite-element-based framework with experimental validation. *Ultrasound in Medicine and Biology*, **2011**, 37, 2013-27	3.5	31
174	Cone Beam X-ray Luminescence Computed Tomography Based on Bayesian Method. *IEEE Transactions on Medical Imaging*, **2017**, 36, 225-235	11.7	30
173	Enhanced spatial resolution in fluorescence molecular tomography using restarted L1-regularized nonlinear conjugate gradient algorithm. *Journal of Biomedical Optics*, **2014**, 19, 046018	3.5	30
172	Noninvasive electromechanical wave imaging and conduction-relevant velocity estimation in vivo. *Ultrasonics*, **2010**, 50, 208-15	3.5	30

171	MAP estimation with structural priors for fluorescence molecular tomography. *Physics in Medicine and Biology*, **2013**, 58, 351-72	3.8	28
170	Imaging of pharmacokinetic rates of indocyanine green in mouse liver with a hybrid fluorescence molecular tomography/x-ray computed tomography system. *Journal of Biomedical Optics*, **2013**, 18, 040505	3.5	28
169	A flexible ultrasound transducer array with micro-machined bulk PZT. *Sensors*, **2015**, 15, 2538-47	3.8	27
168	A two-step optical flow method for strain estimation in elastography: Simulation and phantom study. *Ultrasonics*, **2014**, 54, 990-6	3.5	27
167	Non-invasive measurement of local pulse pressure by pulse wave-based ultrasound manometry (PWUM). *Physiological Measurement*, **2011**, 32, 1653-62	2.9	26
166	Wide-Angle Tissue Doppler Imaging at High Frame Rate Using Multi-Line Transmit Beamforming: An Experimental Validation In Vivo. *IEEE Transactions on Medical Imaging*, **2016**, 35, 521-8	11.7	25
165	A direct method with structural priors for imaging pharmacokinetic parameters in dynamic fluorescence molecular tomography. *IEEE Transactions on Biomedical Engineering*, **2014**, 61, 986-90	5	25
164	AORTIC PULSE WAVE VELOCITY MEASURED BY PULSE WAVE IMAGING (PWI): A COMPARISON WITH APPLANATION TONOMETRY. *Artery Research*, **2011**, 5, 65-71	2.2	25
163	Single-heartbeat electromechanical wave imaging with optimal strain estimation using temporally unequispaced acquisition sequences. *Physics in Medicine and Biology*, **2012**, 57, 1095-112	3.8	25
162	Accurate detection of atrial fibrillation from 12-lead ECG using deep neural network. *Computers in Biology and Medicine*, **2020**, 116, 103378	7	24
161	Guided waves in pre-stressed hyperelastic plates and tubes: Application to the ultrasound elastography of thin-walled soft materials. *Journal of the Mechanics and Physics of Solids*, **2017**, 102, 67-79	5	23
160	Deep Learning for Ultrasound Localization Microscopy. *IEEE Transactions on Medical Imaging*, **2020**, 39, 3064-3078	11.7	23
159	Accelerated image reconstruction in fluorescence molecular tomography using dimension reduction. *Biomedical Optics Express*, **2013**, 4, 1-14	3.5	23
158	An adaptive Tikhonov regularization method for fluorescence molecular tomography. *Medical and Biological Engineering and Computing*, **2013**, 51, 849-58	3.1	22
157	4-D reconstruction for dynamic fluorescence diffuse optical tomography. *IEEE Transactions on Medical Imaging*, **2012**, 31, 2120-32	11.7	22
156	Thermal Memory Based Photoacoustic Imaging of Temperature. *Optica*, **2019**, 6, 198-205	8.6	22
155	Direct Reconstruction of Ultrasound Elastography Using an End-to-End Deep Neural Network. *Lecture Notes in Computer Science*, **2018**, 374-382	0.9	22
154	Bayesian Framework Based Direct Reconstruction of Fluorescence Parametric Images. *IEEE Transactions on Medical Imaging*, **2015**, 34, 1378-91	11.7	18

153	Fluorescence molecular tomography reconstruction via discrete cosine transform-based regularization. *Journal of Biomedical Optics*, **2015**, 20, 55004	3.5	18
152	Performance comparison of rigid and affine models for motion estimation using ultrasound radio-frequency signals. *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, **2015**, 62, 1928-43	3.2	18
151	Simulation study of amplitude-modulated (AM) harmonic motion imaging (HMI) for stiffness contrast quantification with experimental validation. *Ultrasonic Imaging*, **2010**, 32, 154-76	1.9	18
150	Fundamental performance assessment of 2-D myocardial elastography in a phased-array configuration. *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, **2009**, 56, 2320-7	3.2	18
149	A Systematic Investigation of Lateral Estimation Using Various Interpolation Approaches in Conventional Ultrasound Imaging. *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, **2017**, 64, 1149-1160	3.2	17
148	Ultrasound image reconstruction from plane wave radio-frequency data by self-supervised deep neural network. *Medical Image Analysis*, **2021**, 70, 102018	15.4	17
147	Non-Invasive Identification of Vulnerable Atherosclerotic Plaques Using Texture Analysis in Ultrasound Carotid Elastography: An In Vivo Feasibility Study Validated by Magnetic Resonance Imaging. *Ultrasound in Medicine and Biology*, **2017**, 43, 817-830	3.5	16
146	Comparison of Different Pulse Waveforms for Local Pulse Wave Velocity Measurement in Healthy and Hypertensive Common Carotid Arteries in Vivo. *Ultrasound in Medicine and Biology*, **2016**, 42, 1111-23	3.5	16
145	A regularization-free elasticity reconstruction method for ultrasound elastography with freehand scan. *BioMedical Engineering OnLine*, **2014**, 13, 132	4.1	16
144	A three-dimensional free-breathing sequence for simultaneous myocardial T and T mapping. *Magnetic Resonance in Medicine*, **2019**, 81, 1031-1043	4.4	16
143	High-Quality Reconstruction of Plane-Wave Imaging Using Generative Adversarial Network **2018**,		16
142	Three-dimensional free breathing whole heart cardiovascular magnetic resonance T mapping at 3 T. *Journal of Cardiovascular Magnetic Resonance*, **2018**, 20, 64	6.9	16
141	An Inverse Method to Determine Arterial Stiffness with Guided Axial Waves. *Ultrasound in Medicine and Biology*, **2017**, 43, 505-516	3.5	15
140	Feature coupling photoacoustic computed tomography for joint reconstruction of initial pressure and sound speed. *Biomedical Optics Express*, **2019**, 10, 3447-3462	3.5	15
139	An adaptive support driven reweighted L1-regularization algorithm for fluorescence molecular tomography. *Biomedical Optics Express*, **2014**, 5, 4039-52	3.5	15
138	Effects of parameters on the accuracy and precision of ultrasound-based local pulse wave velocity measurement: a simulation study. *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, **2014**, 61, 2001-18	3.2	15
137	An ultrasound elastography method to determine the local stiffness of arteries with guided circumferential waves. *Journal of Biomechanics*, **2017**, 51, 97-104	2.9	14
136	Compressed Sensing Based Synthetic Transmit Aperture Imaging: Validation in a Convex Array Configuration. *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, **2018**, 65, 300-315	3.2	14

135	Separating structures of different fluorophore concentrations by principal component analysis on multispectral excitation-resolved fluorescence tomography images. *Biomedical Optics Express*, **2013**, 4, 1829-45	3.5	14
134	Greedy reconstruction algorithm for fluorescence molecular tomography by means of truncated singular value decomposition conversion. *Journal of the Optical Society of America A: Optics and Image Science, and Vision*, **2013**, 30, 437-47	1.8	13
133	Imaging the mechanics and electromechanics of the heart. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society*, **2006**, Suppl, 6648-51		13
132	Deep image prior for undersampling high-speed photoacoustic microscopy. *Photoacoustics*, **2021**, 22, 100266	9	13
131	Full-direct method for imaging pharmacokinetic parameters in dynamic fluorescence molecular tomography. *Applied Physics Letters*, **2015**, 106, 081110	3.4	12
130	Generalized Adaptive Gaussian Markov Random Field for X-Ray Luminescence Computed Tomography. *IEEE Transactions on Biomedical Engineering*, **2018**, 65, 2130-2133	5	12
129	Correcting the limited view in optical-resolution photoacoustic microscopy. *Journal of Biophotonics*, **2018**, 11, e201700196	3.1	12
128	Fast reconstruction of fluorescence molecular tomography via a permissible region extraction strategy. *Journal of the Optical Society of America A: Optics and Image Science, and Vision*, **2014**, 31, 1886-94	1.8	12
127	Resolving fluorophores by unmixing multispectral fluorescence tomography with independent component analysis. *Physics in Medicine and Biology*, **2014**, 59, 5025-42	3.8	12
126	Elasticity reconstruction for ultrasound elastography using a radial compression: an inverse approach. *Ultrasonics*, **2006**, 44 Suppl 1, e195-8	3.5	12
125	Novel Method for Vessel Cross-Sectional Shear Wave Imaging. *Ultrasound in Medicine and Biology*, **2017**, 43, 1520-1532	3.5	11
124	Iterative Correction Scheme Based on Discrete Cosine Transform and L1 Regularization for Fluorescence Molecular Tomography With Background Fluorescence. *IEEE Transactions on Biomedical Engineering*, **2016**, 63, 1107-15	5	11
123	Elastic Cherenkov effects in transversely isotropic soft materials-II: Ex vivo and in vivo experiments. *Journal of the Mechanics and Physics of Solids*, **2016**, 94, 181-190	5	11
122	Radiomics With Attribute Bagging for Breast Tumor Classification Using Multimodal Ultrasound Images. *Journal of Ultrasound in Medicine*, **2020**, 39, 361-371	2.9	11
121	Coded excitation for diverging wave cardiac imaging: a feasibility study. *Physics in Medicine and Biology*, **2017**, 62, 1565-1584	3.8	10
120	Reconstruction of fluorophore concentration variation in dynamic fluorescence molecular tomography. *IEEE Transactions on Biomedical Engineering*, **2015**, 62, 138-44	5	10
119	Noninvasive measurement of regional pulse wave velocity in human ascending aorta with ultrasound imaging: an in-vivo feasibility study. *Journal of Hypertension*, **2016**, 34, 2026-37	1.9	10
118	Spread spectrum time-resolved diffuse optical measurement system for enhanced sensitivity in detecting human brain activity. *Journal of Biomedical Optics*, **2017**, 22, 45005	3.5	9

117	Compressed Sensing Based Synthetic Transmit Aperture for Phased Array Using Hadamard Encoded Diverging Wave Transmissions. *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, **2018**, 65, 1141-1152	3.2	9
116	Performance optimization of lateral displacement estimation with spatial angular compounding. *Ultrasonics*, **2017**, 73, 9-21	3.5	9
115	Self-prior strategy for organ reconstruction in fluorescence molecular tomography. *Biomedical Optics Express*, **2017**, 8, 4671-4686	3.5	9
114	. *IEEE Transactions on Multimedia*, **2013**, 15, 1031-1038	6.6	9
113	Monitoring of tumor response to cisplatin by subsurface fluorescence molecular tomography. *Journal of Biomedical Optics*, **2012**, 17, 040504	3.5	9
112	Evaluating the Significance of Viscoelasticity in Diagnosing Early-Stage Liver Fibrosis with Transient Elastography. *PLoS ONE*, **2017**, 12, e0170073	3.7	9
111	Adaptive photoacoustic computed tomography. *Photoacoustics*, **2021**, 21, 100223	9	9
110	Automatic selection of regularization parameters for dynamic fluorescence molecular tomography: a comparison of L-curve and U-curve methods. *Biomedical Optics Express*, **2016**, 7, 5021-5041	3.5	9
109	Diverging wave compounding with spatio-temporal encoding using orthogonal Golay pairs for high frame rate imaging. *Ultrasonics*, **2018**, 89, 155-165	3.5	9
108	Multiparametric evaluation of hindlimb ischemia using time-series indocyanine green fluorescence imaging. *Journal of Biophotonics*, **2017**, 10, 456-464	3.1	8
107	2-D Myocardial Deformation Imaging Based on RF-Based Nonrigid Image Registration. *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, **2018**, 65, 1037-1047	3.2	8
106	High frame rate and high line density ultrasound imaging for local pulse wave velocity estimation using motion matching: A feasibility study on vessel phantoms. *Ultrasonics*, **2016**, 67, 41-54	3.5	8
105	Fast reconstruction of fluorophore concentration variation based on the derivation of the diffusion equation. *Journal of the Optical Society of America A: Optics and Image Science, and Vision*, **2015**, 32, 1993-2001	1.8	8
104	In-vivo Pulse Wave Imaging for arterial stiffness measurement under normal and pathological conditions. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2011**, 2011, 567-70	0.9	8
103	Simultaneous fluorescence and positron emission tomography for in vivo imaging of small animals. *Journal of Biomedical Optics*, **2011**, 16, 120511	3.5	8
102	Principal component analysis of dynamic fluorescence tomography in measurement space. *Physics in Medicine and Biology*, **2012**, 57, 2727-42	3.8	8
101	Direct reconstruction method for time-domain fluorescence molecular lifetime tomography. *Optics Letters*, **2015**, 40, 4038-41	3	7
100	Evaluating HIFU-mediated local drug release using thermal strain imaging: Phantom and preliminary in-vivo studies. *Medical Physics*, **2019**, 46, 3864-3876	4.4	7

99	In vivo tomographic imaging of lung colonization of tumour in mouse with simultaneous fluorescence and X-ray CT. *Journal of Biophotonics*, **2014**, 7, 110-6	3.1	7
98	Reconstruction of fluorescence molecular tomography using a neighborhood regularization. *IEEE Transactions on Biomedical Engineering*, **2012**, 59, 1799-803	5	7
97	A hybrid reconstruction algorithm for fluorescence tomography using Kirchhoff approximation and finite element method. *Medical and Biological Engineering and Computing*, **2013**, 51, 7-17	3.1	7
96	360°Fourier transform profilometry in surface reconstruction for fluorescence molecular tomography. *IEEE Journal of Biomedical and Health Informatics*, **2013**, 17, 681-9	7.2	7
95	Compressed sensing for high frame rate, high resolution and high contrast ultrasound imaging. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2015**, 2015, 1552-5	0.9	7
94	Modified forward model for eliminating the time-varying impact in fluorescence molecular tomography. *Journal of Biomedical Optics*, **2014**, 19, 056012	3.5	7
93	10B-6 A Composite Imaging Technique for High Frame-Rate and Full-View Cardiovascular Ultrasound and Elasticity Imaging. *Proceedings IEEE Ultrasonics Symposium*, **2007**,		7
92	Streak artifact suppression in photoacoustic computed tomography using adaptive back projection. *Biomedical Optics Express*, **2019**, 10, 4803-4814	3.5	7
91	Feasibility of Multiplane-Transmit Beamforming for Real-Time Volumetric Cardiac Imaging: A Simulation Study. *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, **2017**, 64, 648-659	3.2	6
90	Acceleration of dynamic fluorescence molecular tomography with principal component analysis. *Biomedical Optics Express*, **2015**, 6, 2036-55	3.5	6
89	Unmixing multiple adjacent fluorescent targets with multispectral excited fluorescence molecular tomography. *Applied Optics*, **2016**, 55, 4843-9	0.2	6
88	Robotized High Intensity Focused Ultrasound (HIFU) system for treatment of mobile organs using motion tracking by ultrasound imaging: An in vitro study. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2015**, 2015, 2571-5	0.9	6
87	Acceleration of early-photon fluorescence molecular tomography with graphics processing units. *Computational and Mathematical Methods in Medicine*, **2013**, 2013, 297291	2.8	6
86	Weighted depth compensation algorithm for fluorescence molecular tomography reconstruction. *Applied Optics*, **2012**, 51, 8883-92	1.7	6
85	Estimation and reduction of decorrelation effect due to tissue lateral displacement in elastography. *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, **2002**, 49, 541-9	3.2	6
84	Reconstruction of high-resolution early-photon tomography based on the first derivative of temporal point spread function. *Journal of Biomedical Optics*, **2018**, 23, 1-4	3.5	6
83	Early-photon guided reconstruction method for time-domain fluorescence lifetime tomography. *Chinese Optics Letters*, **2016**, 14, 071702-71706	2.2	6
82	Nonlinear greedy sparsity-constrained algorithm for direct reconstruction of fluorescence molecular lifetime tomography. *Biomedical Optics Express*, **2016**, 7, 1210-26	3.5	6

81	A Comparative Study of Direct and Iterative Inversion Approaches to Determine the Spatial Shear Modulus Distribution of Elastic Solids. *International Journal of Applied Mechanics*, **2019**, 11, 1950097	2.4	6
80	Non-rigid Motion Correction for Ultrasound Localization Microscopy of the Liver in vivo **2019**,		6
79	Interoperator Reproducibility of Carotid Elastography for Identification of Vulnerable Atherosclerotic Plaques. *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, **2019**, 66, 505-516	3.2	6
78	Compressed sensing reconstruction of synthetic transmit aperture dataset for volumetric diverging wave imaging. *Physics in Medicine and Biology*, **2019**, 64, 025013	3.8	6
77	ApodNet: Learning for High Frame Rate Synthetic Transmit Aperture Ultrasound Imaging. *IEEE Transactions on Medical Imaging*, **2021**, 40, 3190-3204	11.7	6
76	Effects of temperature on multiparametric evaluation of hindlimb ischemia with dynamic fluorescence imaging. *Journal of Biophotonics*, **2017**, 10, 811-820	3.1	5
75	Coded Excitation for Crosstalk Suppression in Multi-line Transmit Beamforming: Simulation Study and Experimental Validation. *Applied Sciences (Switzerland)*, **2019**, 9, 486	2.6	5
74	Doppler-Based Motion Compensation Strategies for 3-D Diverging Wave Compounding and Multiplane-Transmit Beamforming: A Simulation Study. *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, **2018**, 65, 1631-1642	3.2	5
73	P4A-2 An In-Vivo Study of Frame Rate Optimization for Myocardial Elastography. *Proceedings IEEE Ultrasonics Symposium*, **2007**,		5
72	Deep-tissue temperature mapping by multi-illumination photoacoustic tomography aided by a diffusion optical model: a numerical study. *Journal of Biomedical Optics*, **2018**, 23, 1-10	3.5	5
71	A net-shaped multicellular formation facilitates the maturation of hPSC-derived cardiomyocytes through mechanical and electrophysiological stimuli. *Aging*, **2018**, 10, 532-548	5.6	5
70	Tikhonov-regularization-based projecting sparsity pursuit method for fluorescence molecular tomography reconstruction. *Chinese Optics Letters*, **2020**, 18, 011701	2.2	5
69	A General Framework for Inverse Problem Solving using Self-Supervised Deep Learning: Validations in Ultrasound and Photoacoustic Image Reconstruction **2021**,		5
68	**2018**,		5
67	Spatial Angular Compounding With Affine-Model-Based Optical Flow for Improvement of Motion Estimation. *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, **2019**, 66, 701-716	3.2	4
66	. *IEEE Transactions on Multimedia*, **2013**, 15, 1025-1030	6.6	4
65	Safety of fast cardiac imaging using multiple transmit beams: Experimental verification **2014**,		4
64	Subsurface fluorescence molecular tomography with prior information. *Applied Optics*, **2014**, 53, 402-9	1.7	4

63	Fundamental analysis of lateral displacement estimation quality in ultrasound elastography **2009**,		4
62	Detection of murine infarcts using myocardial elastography at both high temporal and spatial resolution. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society*, **2006**, 2006, 1552-5		4
61	Identification of early atherosclerotic lesions in carotid arteries with quantitative characteristics measured by 3D MRI. *Journal of Magnetic Resonance Imaging*, **2016**, 44, 1270-1276	5.6	4
60	Spectral selective fluorescence molecular imaging with volume holographic imaging system. *Journal of Innovative Optical Health Sciences*, **2016**, 09, 1650010	1.2	4
59	Self-guided reconstruction for time-domain fluorescence molecular lifetime tomography. *Journal of Biomedical Optics*, **2016**, 21, 126012	3.5	4
58	A Noninvasive Sonographic Study of Multisite Atherosclerosis in an Elderly Chinese Population. *Journal of Ultrasound in Medicine*, **2017**, 36, 639-647	2.9	3
57	Fast direct reconstruction strategy of dynamic fluorescence molecular tomography using graphics processing units. *Journal of Biomedical Optics*, **2016**, 21, 66010	3.5	3
56	In vivo simultaneous multispectral fluorescence imaging with spectral multiplexed volume holographic imaging system. *Journal of Biomedical Optics*, **2016**, 21, 60502	3.5	3
55	Shape-based reconstruction of dynamic fluorescent yield with a level set method. *BioMedical Engineering OnLine*, **2016**, 15, 6	4.1	3
54	Ultrasound signal wavelet analysis to quantify the microstructures of normal and frozen tissues in vitro. *Cryobiology*, **2014**, 68, 29-34	2.7	3
53	Depth compensation in fluorescence molecular tomography using an adaptive support driven reweighted L1-minimization algorithm **2014**,		3
52	A fast surface reconstruction method for fluorescence molecular tomography based on cross-beam edge back projection. *Measurement: Journal of the International Measurement Confederation*, **2013**, 46, 1565-1571	4.6	3
51	Simulation of HMIFU (Harmonic Motion Imaging for Focused Ultrasound) with in-vitro validation **2010**,		3
50	INFLUENCE OF LIMITED-PROJECTION ON FLUORESCENCE MOLECULAR TOMOGRAPHY. *Journal of Innovative Optical Health Sciences*, **2012**, 05, 1250020	1.2	3
49	11B-1 Noninvasive Electromechanical Wave Imaging and Conduction Velocity Estimation In Vivo. *Proceedings IEEE Ultrasonics Symposium*, **2007**,		3
48	Facilitating in vivo tumor localization by principal component analysis based on dynamic fluorescence molecular imaging. *Journal of Biomedical Optics*, **2017**, 22, 1-9	3.5	3
47	2D RF-based non-rigid image registration for cardiac motion estimation: Comparison against block matching **2016**,		3
46	Super-Resolution Ultrasound Imaging by Sparse Bayesian Learning Method. *IEEE Access*, **2019**, 7, 47197-47205	3.5	2

45	Fast Randomized Singular Value Decomposition-Based Clutter Filtering for Shear Wave Imaging. *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, **2020**, 67, 2363-2377	3.2	2
44	Monitoring of tumor response to cisplatin with simultaneous fluorescence and positron emission tomography: a feasibility study. *Journal of Biophotonics*, **2014**, 7, 889-96	3.1	2
43	A fast motion and strain estimation method **2010**,		2
42	Key parameters for precise lateral displacement estimation in ultrasound elastography. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2009**, 2009, 4407-10	0.9	2
41	**2011**,		2
40	AUTOMATED CONTOUR TRACKING FOR MYOCARDIAL ELASTOGRAPHY IN VIVO **2007**,		2
39	Phase Constraint Improves Ultrasound Image Quality Reconstructed using Deep Neural Network **2021**,		2
38	Deep weakly-supervised breast tumor segmentation in ultrasound images with explicit anatomical constraints.. *Medical Image Analysis*, **2021**, 76, 102315	15.4	2
37	Reconstruction of in vivo fluorophore concentration variation with structural priors and smooth penalty. *Applied Optics*, **2016**, 55, 2732-40	0.2	2
36	Reduction of blurring in broadband volume holographic imaging using a deconvolution method. *Biomedical Optics Express*, **2016**, 7, 3124-38	3.5	2
35	Quantitative Analysis of Pleural Line and B-lines in Lung Ultrasound Images for Severity Assessment of COVID-19 Pneumonia. *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, **2021**, PP,	3.2	2
34	A Deep Learning Trial on Transient Elastography for Assessment of Liver Fibrosis **2018**,		2
33	Electromagnetic tracking-based freehand 3D quasi-static elastography with 1D linear array: a phantom study. *Physics in Medicine and Biology*, **2018**, 63, 245006	3.8	2
32	In Vivo assessment of hypertensive nephrosclerosis using ultrasound localization microscopy.. *Medical Physics*, **2022**,	4.4	2
31	Excitation-resolved multispectral method for imaging pharmacokinetic parameters in dynamic fluorescent molecular tomography. *Journal of Biomedical Optics*, **2017**, 22, 46003	3.5	1
30	Tunable narrowband volume holographic imaging spectrometer for macroscopic fluorescence molecular tomography. *Optical Engineering*, **2016**, 55, 123113	1.1	1
29	A regularization-free Young$s modulus reconstruction algorithm for ultrasound elasticity imaging. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2013**, 2013, 1132-5	0.9	1
28	A feasibility study of carotid elastography for risk assessment of atherosclerotic plaques validated by magnetic resonance imaging **2014**,		1

27	Wide-angle tissue Doppler imaging at high frame rate using multi-line transmit beamforming: An in-vivo pilot study **2014**,		1
26	Effects of key parameters on the accuracy and precision of local pulse wave velocity measurement by ultrasound imaging. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*,	0.9	1
25	Characterization of the stress-strain relationship of the abdominal aortic wall in vivo. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2009**, 2009, 1960-3	0.9	1
24	A comprehensive framework for Harmonic Motion Imaging for Focused Ultrasound (HMIFU) with ex vivo validation **2011**,		1
23	**2008**,		1
22	Mapping of Regional Cancerous Tissue Mechanical Property Changes Using Harmonic Motion Imaging **2007**,		1
21	2I-4 Pulse Wave Imaging in Murine Abdominal Aortas: A Feasibility Study **2006**,		1
20	Ultrasound Image Reconstruction by Self-Supervised Deep Neural Network A Study on Coherent Compounding Strategy **2021**,		1
19	Localization of High-concentration Microbubbles for Ultrasound Localization Microscopy by Self-Supervised Deep Learning **2021**,		1
18	Recovery of Full Synthetic Transmit Aperture Dataset with Well-preserved Phase Information by Self-supervised Deep Learning **2021**,		1
17	Photoacoustic imaging of in vivo hemodynamic responses to sodium nitroprusside. *Journal of Biophotonics*, **2021**, 14, e202000478	3.1	1
16	A Novel Normalized Cross-Correlation Speckle-Tracking Ultrasound Algorithm for the Evaluation of Diaphragm Deformation. *Frontiers in Medicine*, **2021**, 8, 612933	4.9	1
15	Cardiac Deformation Imaging Based on Coherent Compounding of Diverging Waves with Coded Excitation **2018**,		1
14	2D Motion Estimation Based on Diverging Wave Coherent Compounding and Transverse Oscillations **2018**,		1
13	Acceleration of reconstruction for compressed sensing based synthetic transmit aperture imaging by using in-phase/quadrature data. *Ultrasonics*, **2022**, 118, 106576	3.5	1
12	Highly-efficient quantitative fluorescence resonance energy transfer measurements based on deep learning. *Journal of Innovative Optical Health Sciences*, **2020**, 13, 2050021	1.2	0
11	Response to "Potentials and Pitfalls of Local PWV Measurements". *American Journal of Hypertension*, **2010**, 23, 935-935	2.3	0
10	Improving the Subtype Classification of Non-small Cell Lung Cancer by Elastic Deformation Based Machine Learning. *Journal of Digital Imaging*, **2021**, 34, 605-617	5.3	0

9	Depth-recognizable time-domain fluorescence molecular tomography in reflective geometry. *Biomedical Optics Express*, **2021**, 12, 3806-3818	3.5	0
8	Quantitative evaluation of graded hindlimb ischemia based on pharmacokinetic modelling and hemodynamic analysis of indocyanine green. *Physiological Measurement*, **2018**, 39, 015009	2.9	
7	Image reconstruction for synchronous data acquisition in fluorescence molecular tomography. *Journal of X-Ray Science and Technology*, **2015**, 23, 463-72	2.1	
6	Fast photon-boundary intersection computation for Monte Carlo simulation of photon migration. *Optical Engineering*, **2013**, 52, 019001	1.1	
5	Tomographic imaging of ratiometric fluorescence resonance energy transfer in scattering media. *Applied Optics*, **2012**, 51, 5044-50	1.7	
4	Theoretical analysis of tissue axial stretching model in elastography. *Progress in Natural Science: Materials International*, **2004**, 14, 430-438	3.6	
3	Enhancing in vivo renal ischemia assessment by high-dynamic-range fluorescence molecular imaging. *Journal of Biomedical Optics*, **2018**, 23, 1-9	3.5	
2	A Data-Driven Approach for High Frame Rate Synthetic Transmit Aperture Ultrasound Imaging. *Lecture Notes in Computer Science*, **2021**, 412-420	0.9	
1	SAturation-recovery and Variable-flip-Angle (SAVA) based three-dimensional free-breathing cardiovascular magnetic resonance T mapping at 3T.. *NMR in Biomedicine*, **2022**, e4755	4.4	