

# Chengwu Huang

## List of Publications by Year in descending order

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49  
papers

836  
citations

567144

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552653

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g-index

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54  
docs citations

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times ranked

677  
citing authors

#	ARTICLE	IF	CITATIONS
1	Kalman Filter-Based Microbubble Tracking for Robust Super-Resolution Ultrasound Microvessel Imaging. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2020, 67, 1738-1751.	1.7	70
2	Short Acquisition Time Super-Resolution Ultrasound Microvessel Imaging via Microbubble Separation. Scientific Reports, 2020, 10, 6007.	1.6	67
3	Ultrasound-Based Carotid Elastography for Detection of Vulnerable Atherosclerotic Plaques Validated by Magnetic Resonance Imaging. Ultrasound in Medicine and Biology, 2016, 42, 365-377.	0.7	61
4	Super-resolution ultrasound localization microscopy based on a high frame-rate clinical ultrasound scanner: an in-human feasibility study. Physics in Medicine and Biology, 2021, 66, 08NT01.	1.6	61
5	Ultrasound localization microscopy of renal tumor xenografts in chicken embryo is correlated to hypoxia. Scientific Reports, 2020, 10, 2478.	1.6	53
6	Functional Ultrasound Imaging of Spinal Cord Hemodynamic Responses to Epidural Electrical Stimulation: A Feasibility Study. Frontiers in Neurology, 2019, 10, 279.	1.1	38
7	Real time SVD-based clutter filtering using randomized singular value decomposition and spatial downsampling for micro-vessel imaging on a Verasonics ultrasound system. Ultrasonics, 2020, 107, 106163.	2.1	38
8	Debiasing-Based Noise Suppression for Ultrafast Ultrasound Microvessel Imaging. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2019, 66, 1281-1291.	1.7	37
9	Noninvasive Contrast-Free 3D Evaluation of Tumor Angiogenesis with Ultrasensitive Ultrasound Microvessel Imaging. Scientific Reports, 2019, 9, 4907.	1.6	30
10	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.	0.7	25
11	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.	1.7	25
12	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, 1111-1123.	0.7	23
13	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, 2001-2018.	1.7	21
14	In Vivo Confocal Imaging of Fluorescently Labeled Microbubbles: Implications for Ultrasound Localization Microscopy. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2020, 67, 1811-1819.	1.7	20
15	Fast super-resolution ultrasound microvessel imaging using spatiotemporal data with deep fully convolutional neural network. Physics in Medicine and Biology, 2021, 66, 075005.	1.6	20
16	System-Independent Ultrasound Attenuation Coefficient Estimation Using Spectra Normalization. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2019, 66, 867-875.	1.7	19
17	Simultaneous Noise Suppression and Incoherent Artifact Reduction in Ultrafast Ultrasound Vascular Imaging. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2021, 68, 2075-2085.	1.7	19
18	Changes in spinal cord hemodynamics reflect modulation of spinal network with different parameters of epidural stimulation. NeuroImage, 2020, 221, 117183.	2.1	16

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19	In vivo assessment of hypertensive nephrosclerosis using ultrasound localization microscopy. <i>Medical Physics</i> , 2022, 49, 2295-2308.	1.6	16
20	Interoperator Reproducibility of Carotid Elastography for Identification of Vulnerable Atherosclerotic Plaques. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2019, 66, 505-516.	1.7	15
21	Ultrasensitive Ultrasound Microvessel Imaging for Characterizing Benign and Malignant Breast Tumors. <i>Ultrasound in Medicine and Biology</i> , 2019, 45, 3128-3136.	0.7	14
22	Super-Resolution Ultrasound Localization Microscopy for Visualization of the Ocular Blood Flow. <i>IEEE Transactions on Biomedical Engineering</i> , 2022, 69, 1585-1594.	2.5	14
23	Noninvasive measurement of regional pulse wave velocity in human ascending aorta with ultrasound imaging. <i>Journal of Hypertension</i> , 2016, 34, 2026-2037.	0.3	13
24	Ultrasonographic findings of intrahepatic lymphoepithelioma-like cholangiocarcinoma associated with Epstein-Barr virus. <i>Medicine (United States)</i> , 2019, 98, e14206.	0.4	13
25	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> , 2016, 67, 41-54.	2.1	12
26	Ultrasound Attenuation Estimation in Harmonic Imaging for Robust Fatty Liver Detection. <i>Ultrasound in Medicine and Biology</i> , 2020, 46, 3080-3087.	0.7	10
27	Three-dimensional shear wave elastography on conventional ultrasound scanners with external vibration. <i>Physics in Medicine and Biology</i> , 2020, 65, 215009.	1.6	9
28	In vivo Visualization of Pig Vagus Nerve "Vagotomy" Using Ultrasound. <i>Frontiers in Neuroscience</i> , 2021, 15, 676680.	1.4	9
29	Morphological Reconstruction Improves Microvessel Mapping in Super-Resolution Ultrasound. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2021, 68, 2141-2149.	1.7	7
30	Improved Ultrasound Microvessel Imaging Using Deconvolution with Total Variation Regularization. <i>Ultrasound in Medicine and Biology</i> , 2021, 47, 1089-1098.	0.7	6
31	Quantitative Shear Wave Speed Assessment for Muscles With the Diagnosis of Taut Bands and/or Myofascial Trigger Points Using Probe Oscillation Shear Wave Elastography: A Pilot Study. <i>Journal of Ultrasound in Medicine</i> , 2022, 41, 845-854.	0.8	6
32	A net-shaped multicellular formation facilitates the maturation of hPSC-derived cardiomyocytes through mechanical and electrophysiological stimuli. <i>Aging</i> , 2018, 10, 532-548.	1.4	6
33	Liraglutide reduces attenuation coefficient as a measure of hepatic steatosis during 16-weeks' treatment in nondiabetic obese patients: A pilot trial. <i>JGH Open</i> , 2021, 5, 193-198.	0.7	6
34	Localization of High-concentration Microbubbles for Ultrasound Localization Microscopy by Self-Supervised Deep Learning. , 2021, , .		6
35	Quantitative Inflammation Assessment for Crohn Disease Using Ultrasensitive Ultrasound Microvessel Imaging. <i>Journal of Ultrasound in Medicine</i> , 2020, 39, 1819-1827.	0.8	4
36	Noise Suppression for Ultrasound Attenuation Coefficient Estimation Based on Spectrum Normalization. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2021, 68, 2667-2674.	1.7	4

#	ARTICLE	IF	CITATIONS
37	Effects of key parameters on the accuracy and precision of local pulse wave velocity measurement by ultrasound imaging. , 2014, 2014, 2877-80.		2
38	On Combination of Hadamard-Encoded Multipulses and Multiplane Wave Transmission in Contrast-Enhanced Ultrasound Imaging. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2018, 65, 1977-1980.	1.7	2
39	Three-dimensional Super-Resolution Ultrasound Microvessel Imaging with Bipartite Graph-based Microbubble Tracking using a Verasonics 256-channel Ultrasound System. , 2019, , .		2
40	Wide-angle tissue Doppler imaging at high frame rate using multi-line transmit beamforming: An in-vivo pilot study. , 2014, , .		1
41	Effects of key parameters on the performance of local pulse wave velocity measurement: Theroretical analysis and in-vivo validation. , 2014, , .		1
42	Pulse Wave Imaging for Assessing Arterial Stiffness Change in A Mouse Model of Thoracic Aortic Dissection in Marfan Syndrome. , 2019, , .		1
43	Deep Variational Network for High Quality 3D Ultrasound Imaging using Sparse Array. , 2020, , .		1
44	High line-density pulse wave imaging for local pulse wave velocity estimation using motion matching: A feasibility study on vessel phantoms. , 2015, , .		0
45	Pulse wave velocity measurement in healthy and diseased carotid arteries in vivo. , 2015, , .		0
46	Notice of Removal: Suppression of reflected waves with high-resolution Radon transform for accurate measurement of regional pulse wave velocity. , 2017, , .		0
47	445 LIRAGLUTIDE ESCALATED TO 3.0 MG REDUCES HEPATIC STEATOSIS DURING 16 WEEKS' TREATMENT IN NON-DIABETIC OBESE PATIENTS. Gastroenterology, 2020, 158, S-86.	0.6	0
48	Multi-resolution Data Processing for Accelerated and Robust Ultrasound Localization Microscopy. , 2020, , .		0
49	Reverberation clutter signal suppression in ultrasound attenuation estimation using wavelet-based robust principal component analysis. Physics in Medicine and Biology, 2022, , .	1.6	0