Chee Hau Leow

List of Publications by Year
in descending order

36 papers	689 citations	759233 12 h-index	752698 20 g-index
36 all docs	36 docs citations	36 times ranked	643 citing authors

#	Article	IF	Citations
1	Flow Velocity Mapping Using Contrast Enhanced High-Frame-Rate Plane Wave Ultrasound and Image Tracking: Methods and Initial inÂVitro and inÂVivo Evaluation. Ultrasound in Medicine and Biology, 2015, 41, 2913-2925.	1.5	147
2	3D Super-Resolution US Imaging of Rabbit Lymph Node Vasculature in Vivo by Using Microbubbles. Radiology, 2019, 291, 642-650.	7.3	82
3	3-D Super-Resolution Ultrasound Imaging With a 2-D Sparse Array. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2020, 67, 269-277.	3.0	74
4	Acoustic wave sparsely activated localization microscopy (AWSALM): Super-resolution ultrasound imaging using acoustic activation and deactivation of nanodroplets. Applied Physics Letters, 2018, 113, .	3.3	59
5	Spatio-Temporal Flow and Wall Shear Stress Mapping Based on Incoherent Ensemble-Correlation of Ultrafast Contrast Enhanced Ultrasound Images. Ultrasound in Medicine and Biology, 2018, 44, 134-152.	1.5	57
6	Fast Acoustic Wave Sparsely Activated Localization Microscopy: Ultrasound Super-Resolution Using Plane-Wave Activation of Nanodroplets. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2019, 66, 1039-1046.	3.0	53
7	ASAP: Super-Contrast Vasculature Imaging Using Coherence Analysis and High Frame-Rate Contrast Enhanced Ultrasound. IEEE Transactions on Medical Imaging, 2018, 37, 1847-1856.	8.9	35
8	Surface Charge Measurement of SonoVue, Definity and Optison: A Comparison of Laser Doppler Electrophoresis and Micro-Electrophoresis. Ultrasound in Medicine and Biology, 2015, 41, 2990-3000.	1.5	24
9	Microbubble Void Imaging: A Non-invasive Technique for Flow Visualisation and Quantification of Mixing in Large Vessels Using Plane Wave Ultrasound and Controlled Microbubble Contrast Agent Destruction. Ultrasound in Medicine and Biology, 2015, 41, 2926-2937.	1.5	19
10	3-D Velocity and Volume Flow Measurement $In~Vivo$ Using Speckle Decorrelation and 2-D High-Frame-Rate Contrast-Enhanced Ultrasound. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2018, 65, 2233-2244.	3.0	19
11	Contrast-Enhanced High-Frame-Rate Ultrasound Imaging of Flow Patterns in Cardiac Chambers and Deep Vessels. Ultrasound in Medicine and Biology, 2020, 46, 2875-2890.	1.5	15
12	3-D Flow Reconstruction Using Divergence-Free Interpolation of Multiple 2-D Contrast-Enhanced Ultrasound Particle Imaging Velocimetry Measurements. Ultrasound in Medicine and Biology, 2019, 45, 795-810.	1.5	14
13	Development of⁶⁸Ga-labelled ultrasound microbubbles for whole-body PET imaging. Chemical Science, 2019, 10, 5603-5615.	7.4	13
14	3-D Microvascular Imaging Using High Frame Rate Ultrasound and ASAP Without Contrast Agents: Development and Initial In Vivo Evaluation on Nontumor and Tumor Models. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2019, 66, 939-948.	3.0	11
15	Vaporising phase change ultrasound contrast agent in microvascular confinement. , 2016, , .		10
16	Acoustic response of targeted nanodroplets post-activation using high frame rate imaging. , 2017, , .		9
17	High Frame Rate Contrast-Enhanced Ultrasound Imaging for Slow Lymphatic Flow: Influence of Ultrasound Pressure and Flow Rate on Bubble Disruption and Image Persistence. Ultrasound in Medicine and Biology, 2019, 45, 2456-2470.	1.5	9
18	Measurement of Flow Volume in the Presence of Reverse Flow with Ultrasound Speckle Decorrelation. Ultrasound in Medicine and Biology, 2019, 45, 3056-3066.	1.5	7

#	Article	IF	Citations
19	Contrast Agent-Free Assessment of Blood Flow and Wall Shear Stress in the Rabbit Aorta using Ultrasound Image Velocimetry. Ultrasound in Medicine and Biology, 2022, 48, 437-449.	1.5	7
20	Minimization of Nanodroplet Activation Time using Focused-Pulses for Droplet-Based Ultrasound Super-Resolution Imaging. , 2019, , .		5
21	High frame rate ultrasound imaging of vaporised phase change contrast agents. , 2017, , .		4
22	Fast Acoustic Wave Sparsely Activated Localization Microscopy (Fast-AWSALM) Using Octafluoropropane N Anodroplets. , 2018, , .		4
23	Optimization of 3-D Divergence-Free Flow Field Reconstruction Using 2-D Ultrasound Vector Flow Imaging. Ultrasound in Medicine and Biology, 2019, 45, 3042-3055.	1.5	3
24	Selection on Golay complementary sequences in binary pulse compression for microbubble detection. Japanese Journal of Applied Physics, 2021, 60, 066501.	1.5	3
25	Multi-frame rate plane wave contrast-enhanced ultrasound imaging for tumour vascular imaging and perfusion quantification. , 2017, , .		2
26	Dual frequency transcranial ultrasound for contrast enhanced ultrafast brain functional imaging. , 2017, , .		1
27	High-Contrast 3D in Vivo Microvascular Imaging Using Scanning 2D Ultrasound and Acoutic Sub-Aperture Processing (ASAP). , 2018, , .		1
28	Effects of Mechanical Index on Repeated Sparse Activation of Nanodroplets In Vivo. , 2020, , .		1
29	Investigating CXCR4 expression of tumor cells and the vascular compartment: A multimodal approach. PLoS ONE, 2021, 16, e0260186.	2.5	1
30	Automated segmentation of blood vessel in contrast enhanced plane wave ultrasound images. , 2016, , .		0
31	Notice of Removal: 3D flow velocity reconstruction in a human radial artery from measured 2D high-frame-rate plane wave contrast enhanced ultrasound in two scanning directions â€" A feasibility study. , 2017, , .		0
32	Acoustic response of phase change contrast agents targeted with breast cancer cells immediately after ultrasonic activation using ultrafast imaging. , 2017, , .		0
33	Multi-frame rate plane wave contrast-enhance ultrasound imaging for tumour vasculature imaging and perfusion quantification. , 2017, , .		0
34	Cardiac flow mapping using high frame-rate diverging wave contrast enhanced ultrasound and image tracking. , 2017, , .		0
35	Notice of Removal: Exploring mild bubble disruption and high frame rate contrast enhanced ultrasound for specific imaging of lymphatic vessel. , 2017, , .		0
36	High frame rate ultrasound imaging of vaporised sub-micron phase-change contrast agents. , 2017, , .		0