

Brooks D Lindsey

List of Publications by Year in descending order

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citing authors

#	ARTICLE	IF	CITATIONS
1	A Thin Transducer With Integrated Acoustic Metamaterial for Cardiac CT Imaging and Gating. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2022, 69, 1064-1076.	3.0	3
2	Very Low Frequency Radial Modulation for Deep Penetration Contrast-Enhanced Ultrasound Imaging. Ultrasound in Medicine and Biology, 2022, 48, 530-545.	1.5	5
3	Dual-Resonance (16/32 MHz) Piezoelectric Transducer With a Single Electrical Connection for Forward-Viewing Robotic Guidewire. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2022, 69, 1428-1441.	3.0	2
4	Ultrasound-gated computed tomography coronary angiography: Development of ultrasound transducers with improved computed tomography compatibility. Medical Physics, 2021, 48, 4191-4204.	3.0	4
5	A Robotically Steerable Guidewire With Forward-Viewing Ultrasound: Development of Technology for Minimally-Invasive Imaging. IEEE Transactions on Biomedical Engineering, 2021, 68, 2222-2232.	4.2	6
6	Patient-Specific 3D Bioprinted Models of Developing Human Heart (Adv. Healthcare Mater. 15/2021). Advanced Healthcare Materials, 2021, 10, 2170071.	7.6	0
7	Effect of Skull Porous Trabecular Structure on Transcranial Ultrasound Imaging in the Presence of Elastic Wave Mode Conversion at Varying Incidence Angle. Ultrasound in Medicine and Biology, 2021, 47, 2734-2748.	1.5	13
8	Forward-viewing estimation of 3D blood flow velocity fields by intravascular ultrasound: Influence of the catheter on velocity estimation in stenoses. Ultrasonics, 2021, 117, 106558.	3.9	2
9	High contrast ultrasound imaging of very low frequency (100 kHz) modulated microbubbles. , 2021, , .		0
10	Transcranial activation and imaging of low boiling point phase-change contrast agents through the temporal bone using an ultrafast interframe activation ultrasound sequence. Medical Physics, 2020, 47, 4450-4464.	3.0	8
11	Transcranial imaging of phase change contrast agents (PCCAs) through the temporal bone using ultrafast interframe activation ultrasound sequence. , 2020, , .		0
12	Effect of incidence angle and wave mode conversion on transcranial ultrafast Doppler imaging. , 2020, , .		4
13	Imaging the Activation of Low-Boiling-Point Phase-Change Contrast Agents in the Presence of Tissue Motion Using Ultrafast Inter-frame Activation Ultrasound Imaging. Ultrasound in Medicine and Biology, 2020, 46, 1474-1489.	1.5	11
14	High contrast power Doppler imaging in side-viewing intravascular ultrasound imaging via angular compounding. Ultrasonics, 2020, 108, 106200.	3.9	8
15	3-D Intravascular Characterization of Blood Flow Velocity Fields with a Forward-Viewing 2-D Array. Ultrasound in Medicine and Biology, 2020, 46, 2560-2571.	1.5	7
16	Toward Noninvasive Mapping of Diffuse Scattering in the Presence of Motion. Ultrasonic Imaging, 2020, 42, 41-52.	2.6	0
17	Side-viewing rotational IVUS imaging of slow flow with adaptive SVD filtering. , 2020, , .		1
18	Improving spatial resolution of cavitation dose mapping for high intensity focused ultrasound (HIFU) therapy by combining ultrafast interframe cavitation image and passive acoustic mapping. , 2020, , .		0

#	ARTICLE	IF	CITATIONS
19	Phase Modulation Beamforming for Ultrafast Plane-Wave Imaging. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2020, 67, 2003-2011.	3.0	1
20	Towards the Development of an Ultrasound-Guided Robotically Steerable Guidewire. , 2020, , .		5
21	Phase modulation beamforming in high frame rate imaging. , 2019, , .		0
22	System for real-time forward-viewing intravascular imaging of 3D velocity fields. , 2019, , .		2
23	High contrast power Doppler imaging using intravascular ultrasound. , 2019, , .		1
24	High contrast imaging of low boiling point phase change contrast agents in moving tissue with ultrafast inter-frame activation imaging sequence. , 2019, , .		1
25	A Dual-Frequency Colinear Array for Acoustic Angiography in Prostate Cancer Evaluation. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2018, 65, 2418-2428.	3.0	12
26	Intravascular forward-looking ultrasound transducers for microbubble-mediated sonothrombolysis. Scientific Reports, 2017, 7, 3454.	3.3	65
27	An iterative fullwave simulation approach to multiple scattering in media with randomly distributed microbubbles. Physics in Medicine and Biology, 2017, 62, 4202-4217.	3.0	5
28	First-in-Human Study of Acoustic Angiography in the Breast and Peripheral Vasculature. Ultrasound in Medicine and Biology, 2017, 43, 2939-2946.	1.5	17
29	Dual-Frequency Piezoelectric Endoscopic Transducer for Imaging Vascular Invasion in Pancreatic Cancer. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2017, 64, 1078-1086.	3.0	25
30	High Resolution Ultrasound Superharmonic Perfusion Imaging: In Vivo Feasibility and Quantification of Dynamic Contrast-Enhanced Acoustic Angiography. Annals of Biomedical Engineering, 2017, 45, 939-948.	2.5	23
31	Assessment of Molecular Acoustic Angiography for Combined Microvascular and Molecular Imaging in Preclinical Tumor Models. Molecular Imaging and Biology, 2017, 19, 194-202.	2.6	21
32	Characterization of a prototype transmit 2 MHz receive 21 MHz array for superharmonic imaging. , 2017, , .		0
33	Characterization of a prototype transmit 2 MHz receive 21 MHz array for superharmonic imaging. , 2017, , .		1
34	Notice of Removal: In-vivo characterization of angiogenesis in tumor-bearing rats using multiple scattering of ultrasound. , 2017, , .		0
35	A dual-frequency co-linear array for prostate acoustic angiography. , 2016, , .		1
36	A dual-frequency endoscopic transducer for imaging vascular invasion in pancreatic cancer. , 2016, , .		3

#	ARTICLE	IF	CITATIONS
37	In-vivo quantitative analysis of the angiogenic microvasculature in tumor-bearing rats using multiple scattering. Proceedings of Meetings on Acoustics, 2016, , .	0.3	0
38	Adaptive windowing in mechanically-steered intravascular ultrasound imaging: Ex vivo and in vivo studies with contrast enhancement. , 2016, , .		0
39	Adaptive windowing in contrast-enhanced intravascular ultrasound imaging. Ultrasonics, 2016, 70, 123-135.	3.9	18
40	Ex-Vivo Porcine Arterial and Chorioallantoic Membrane Acoustic Angiography Using Dual-Frequency Intravascular Ultrasound Probes. Ultrasound in Medicine and Biology, 2016, 42, 2294-2307.	1.5	20
41	Molecular Acoustic Angiography: A New Technique for High-resolution Superharmonic Ultrasound Molecular Imaging. Ultrasound in Medicine and Biology, 2016, 42, 769-781.	1.5	43
42	Optimization of Contrast-to-Tissue Ratio Through Pulse Windowing in Dual-Frequency Acoustic Angiography Imaging. Ultrasound in Medicine and Biology, 2015, 41, 1884-1895.	1.5	25
43	A 3 MHz/18 MHz dual-layer co-linear array for transrectal acoustic angiography. , 2015, , .		14
44	On the Relationship Between Microbubble Fragmentation, Deflation and Broadband Superharmonic Signal Production. Ultrasound in Medicine and Biology, 2015, 41, 1711-1725.	1.5	55
45	Dual-Frequency Piezoelectric Transducers for Contrast Enhanced Ultrasound Imaging. Sensors, 2014, 14, 20825-20842.	3.8	78
46	Optimization of contrast-to-tissue ratio and role of bubble destruction in dual-frequency contrast-specific acoustic angiography imaging. , 2014, , .		3
47	Refraction Correction in 3D Transcranial Ultrasound Imaging. Ultrasonic Imaging, 2014, 36, 35-54.	2.6	8
48	3-D Transcranial Ultrasound Imaging with Bilateral Phase Aberration Correction of Multiple Isoplanatic Patches: A Pilot Human Study with Microbubble Contrast Enhancement. Ultrasound in Medicine and Biology, 2014, 40, 90-101.	1.5	12
49	Acoustic characterization of contrast-to-tissue ratio and axial resolution for dual-frequency contrast-specific acoustic angiography imaging. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2014, 61, 1668-1687.	3.0	58
50	Pitch-catch phase aberration correction of multiple isoplanatic patches for 3-D transcranial ultrasound imaging. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2013, 60, 463-480.	3.0	35
51	Simultaneous Bilateral Real-Time 3-D Transcranial Ultrasound Imaging at 1 MHz Through Poor Acoustic Windows. Ultrasound in Medicine and Biology, 2013, 39, 721-734.	1.5	21
52	Ring Array Transducers for Real-Time 3-D Imaging of an Atrial Septal Occluder. Ultrasound in Medicine and Biology, 2012, 38, 1483-1487.	1.5	4
53	Multiple isoplanatic patch phase aberration correction in real-time 3D transcranial ultrasound. , 2012, , .		0
54	Pitch-catch phase aberration correction for 3D ultrasound brain helmet. , 2011, , .		2

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55	The ultrasound brain helmet: new transducers and volume registration for in vivo simultaneous multi-transducer 3-D transcranial imaging. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2011, 58, 1189-1202.	3.0	45
56	2D ring array transducers for real-time 3D imaging of atrial septal defect repair. , 2011, , .		0
57	Dual matrix arrays integrated into scanner for increased SNR of ultrasound brain helmet. , 2010, , .		2
58	The ultrasound brain helmet for 3D transcranial Doppler imaging. , 2009, , .		7
59	The Ultrasound Brain Helmet: Feasibility Study of Multiple Simultaneous 3D Scans of Cerebral Vasculature. Ultrasound in Medicine and Biology, 2009, 35, 329-338.	1.5	72