

Brooks D Lindsey

List of Publications by Year in descending order

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59
papers

779
citations

516710
16
h-index

526287
27
g-index

59
all docs

59
docs citations

59
times ranked

588
citing authors

#	ARTICLE	IF	CITATIONS
1	Dual-Frequency Piezoelectric Transducers for Contrast Enhanced Ultrasound Imaging. <i>Sensors</i> , 2014, 14, 20825-20842.	3.8	78
2	The Ultrasound Brain Helmet: Feasibility Study of Multiple Simultaneous 3D Scans of Cerebral Vasculature. <i>Ultrasound in Medicine and Biology</i> , 2009, 35, 329-338.	1.5	72
3	Intravascular forward-looking ultrasound transducers for microbubble-mediated sonothrombolysis. <i>Scientific Reports</i> , 2017, 7, 3454.	3.3	65
4	Acoustic characterization of contrast-to-tissue ratio and axial resolution for dual-frequency contrast-specific acoustic angiography imaging. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2014, 61, 1668-1687.	3.0	58
5	On the Relationship Between Microbubble Fragmentation, Deflation and Broadband Superharmonic Signal Production. <i>Ultrasound in Medicine and Biology</i> , 2015, 41, 1711-1725.	1.5	55
6	The ultrasound brain helmet: new transducers and volume registration for in vivo simultaneous multi-transducer 3-D transcranial imaging. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2011, 58, 1189-1202.	3.0	45
7	Molecular Acoustic Angiography: A New Technique for High-resolution Superharmonic Ultrasound Molecular Imaging. <i>Ultrasound in Medicine and Biology</i> , 2016, 42, 769-781.	1.5	43
8	Pitch-catch phase aberration correction of multiple isoplanatic patches for 3-D transcranial ultrasound imaging. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2013, 60, 463-480.	3.0	35
9	Optimization of Contrast-to-Tissue Ratio Through Pulse Windowing in Dual-Frequency Acoustic Angiography Imaging. <i>Ultrasound in Medicine and Biology</i> , 2015, 41, 1884-1895.	1.5	25
10	Dual-Frequency Piezoelectric Endoscopic Transducer for Imaging Vascular Invasion in Pancreatic Cancer. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2017, 64, 1078-1086.	3.0	25
11	High Resolution Ultrasound Superharmonic Perfusion Imaging: In Vivo Feasibility and Quantification of Dynamic Contrast-Enhanced Acoustic Angiography. <i>Annals of Biomedical Engineering</i> , 2017, 45, 939-948.	2.5	23
12	Simultaneous Bilateral Real-Time 3-D Transcranial Ultrasound Imaging at 1 MHz Through Poor Acoustic Windows. <i>Ultrasound in Medicine and Biology</i> , 2013, 39, 721-734.	1.5	21
13	Assessment of Molecular Acoustic Angiography for Combined Microvascular and Molecular Imaging in Preclinical Tumor Models. <i>Molecular Imaging and Biology</i> , 2017, 19, 194-202.	2.6	21
14	Ex Vivo Porcine Arterial and Chorioallantoic Membrane Acoustic Angiography Using Dual-Frequency Intravascular Ultrasound Probes. <i>Ultrasound in Medicine and Biology</i> , 2016, 42, 2294-2307.	1.5	20
15	Adaptive windowing in contrast-enhanced intravascular ultrasound imaging. <i>Ultrasonics</i> , 2016, 70, 123-135.	3.9	18
16	First-in-Human Study of Acoustic Angiography in the Breast and Peripheral Vasculature. <i>Ultrasound in Medicine and Biology</i> , 2017, 43, 2939-2946.	1.5	17
17	A 3 MHz/18 MHz dual-layer co-linear array for transrectal acoustic angiography. , 2015, , .		14
18	Effect of Skull Porous Trabecular Structure on Transcranial Ultrasound Imaging in the Presence of Elastic Wave Mode Conversion at Varying Incidence Angle. <i>Ultrasound in Medicine and Biology</i> , 2021, 47, 2734-2748.	1.5	13

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19	3-D Transcranial Ultrasound Imaging with Bilateral Phase Aberration Correction of Multiple Isoplanatic Patches: A Pilot Human Study with Microbubble Contrast Enhancement. <i>Ultrasound in Medicine and Biology</i> , 2014, 40, 90-101.	1.5	12
20	A Dual-Frequency Colinear Array for Acoustic Angiography in Prostate Cancer Evaluation. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2018, 65, 2418-2428.	3.0	12
21	Imaging the Activation of Low-Boiling-Point Phase-Change Contrast Agents in the Presence of Tissue Motion Using Ultrafast Inter-frame Activation Ultrasound Imaging. <i>Ultrasound in Medicine and Biology</i> , 2020, 46, 1474-1489.	1.5	11
22	Refraction Correction in 3D Transcranial Ultrasound Imaging. <i>Ultrasonic Imaging</i> , 2014, 36, 35-54.	2.6	8
23	Transcranial activation and imaging of low boiling point phase-change contrast agents through the temporal bone using an ultrafast interframe activation ultrasound sequence. <i>Medical Physics</i> , 2020, 47, 4450-4464.	3.0	8
24	High contrast power Doppler imaging in side-viewing intravascular ultrasound imaging via angular compounding. <i>Ultrasonics</i> , 2020, 108, 106200.	3.9	8
25	The ultrasound brain helmet for 3D transcranial Doppler imaging. , 2009, , .		7
26	3-D Intravascular Characterization of Blood Flow Velocity Fields with a Forward-Viewing 2-D Array. <i>Ultrasound in Medicine and Biology</i> , 2020, 46, 2560-2571.	1.5	7
27	A Robotically Steerable Guidewire With Forward-Viewing Ultrasound: Development of Technology for Minimally-Invasive Imaging. <i>IEEE Transactions on Biomedical Engineering</i> , 2021, 68, 2222-2232.	4.2	6
28	An iterative fullwave simulation approach to multiple scattering in media with randomly distributed microbubbles. <i>Physics in Medicine and Biology</i> , 2017, 62, 4202-4217.	3.0	5
29	Towards the Development of an Ultrasound-Guided Robotically Steerable Guidewire. , 2020, , .		5
30	Very Low Frequency Radial Modulation for Deep Penetration Contrast-Enhanced Ultrasound Imaging. <i>Ultrasound in Medicine and Biology</i> , 2022, 48, 530-545.	1.5	5
31	Ring Array Transducers for Real-Time 3-D Imaging of an Atrial Septal Occluder. <i>Ultrasound in Medicine and Biology</i> , 2012, 38, 1483-1487.	1.5	4
32	Effect of incidence angle and wave mode conversion on transcranial ultrafast Doppler imaging. , 2020, , .		4
33	Ultrasound-gated computed tomography coronary angiography: Development of ultrasound transducers with improved computed tomography compatibility. <i>Medical Physics</i> , 2021, 48, 4191-4204.	3.0	4
34	Optimization of contrast-to-tissue ratio and role of bubble destruction in dual-frequency contrast-specific “acoustic angiography” imaging. , 2014, , .		3
35	A dual-frequency endoscopic transducer for imaging vascular invasion in pancreatic cancer. , 2016, , .		3
36	A Thin Transducer With Integrated Acoustic Metamaterial for Cardiac CT Imaging and Gating. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2022, 69, 1064-1076.	3.0	3

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37	Dual matrix arrays integrated into scanner for increased SNR of ultrasound brain helmet. , 2010, , .		2
38	Pitch-catch phase aberration correction for 3D ultrasound brain helmet. , 2011, , .		2
39	System for real-time forward-viewing intravascular imaging of 3D velocity fields. , 2019, , .		2
40	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
41	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
42	A dual-frequency co-linear array for prostate acoustic angiography. , 2016, , .		1
43	Characterization of a prototype transmit 2 MHz receive 21 MHz array for superharmonic imaging. , 2017, , .		1
44	High contrast power Doppler imaging using intravascular ultrasound. , 2019, , .		1
45	High contrast imaging of low boiling point phase change contrast agents in moving tissue with ultrafast inter-frame activation imaging sequence. , 2019, , .		1
46	Side-viewing rotational IVUS imaging of slow flow with adaptive SVD filtering. , 2020, , .		1
47	Phase Modulation Beamforming for Ultrafast Plane-Wave Imaging. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2020, 67, 2003-2011.	3.0	1
48	2D ring array transducers for real-time 3D imaging of atrial septal defect repair. , 2011, , .		0
49	Multiple isoplanatic patch phase aberration correction in real-time 3D transcranial ultrasound. , 2012, , .		0
50	In-vivo quantitative analysis of the angiogenic microvasculature in tumor-bearing rats using multiple scattering. Proceedings of Meetings on Acoustics, 2016, , .	0.3	0
51	Adaptive windowing in mechanically-steered intravascular ultrasound imaging: Ex vivo and in vivo studies with contrast enhancement. , 2016, , .		0
52	Characterization of a prototype transmit 2 MHz receive 21 MHz array for superharmonic imaging. , 2017, , .		0
53	Notice of Removal: In-vivo characterization of angiogenesis in tumor-bearing rats using multiple scattering of ultrasound. , 2017, , .		0
54	Phase modulation beamforming in high frame rate imaging. , 2019, , .		0

#	ARTICLE	IF	CITATIONS
55	Transcranial imaging of phase change contrast agents (PCCAs) through the temporal bone using ultrafast interframe activation ultrasound sequence. , 2020, , .		0
56	Toward Noninvasive Mapping of Diffuse Scattering in the Presence of Motion. Ultrasonic Imaging, 2020, 42, 41-52.	2.6	0
57	Patientâ€™specific 3D Bioprinted Models of Developing Human Heart (Adv. Healthcare Mater. 15/2021). Advanced Healthcare Materials, 2021, 10, 2170071.	7.6	0
58	High contrast ultrasound imaging of very low frequency (100 kHz) modulated microbubbles. , 2021, , .		0
59	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