Christine E M Demore

List of Publications by Year
in descending order

73	1,570	430843	315719
papers	citations	18 h-index	38 g-index

74	74	74	1708
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Fine Pitch Flexible Printed Circuit Board Patterning for Miniaturized Endoscopic MicroUltrasound Arrays. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2022, 69, 2785-2797.	3.0	3
2	High frequency ultrasound nonlinear scattering from porphyrin nanobubbles. Ultrasonics, 2021, 110, 106245.	3.9	17
3	Characterization of an Array-Based Dual-Frequency Transducer for Superharmonic Contrast Imaging. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2021, 68, 2419-2431.	3.0	11
4	Validation of the soft-embalmed Thiel cadaver as a high-fidelity simulator of pressure during targeted nerve injection. Regional Anesthesia and Pain Medicine, 2021, 46, 540-548.	2.3	5
5	High-Frequency Array-Based Nanobubble Nonlinear Imaging in a Phantom and In Vivo. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2021, 68, 2059-2074.	3.0	3
6	Real-time visualisation of peripheral nerve trauma during subepineural injection in pig brachial plexus using micro-ultrasound. British Journal of Anaesthesia, 2021, 127, 153-163.	3.4	6
7	Implementation of a Novel 288-Element Dual-Frequency Array for Acoustic Angiography: In Vitro and In Vivo Characterization. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2021, 68, 2657-2666.	3.0	8
8	Study of peripheral nerve trauma from subepineural injection of the brachial plexus in pigs. Response to Br J Anaesth 2021. British Journal of Anaesthesia, 2021, 127, e196-e197.	3.4	0
9	Transcranial Photoacoustic Detection of Blood-Brain Barrier Disruption Following Focused Ultrasound-Mediated Nanoparticle Delivery. Molecular Imaging and Biology, 2020, 22, 324-334.	2.6	18
10	Tumor Contrast Imaging with Gas Vesicles by Circumventing the Reticuloendothelial System. Ultrasound in Medicine and Biology, 2020, 46, 359-368.	1.5	26
11	Tetrazine-Derived Near-Infrared Dye as a Facile Reagent for Developing Targeted Photoacoustic Imaging Agents. Molecular Pharmaceutics, 2020, 17, 3369-3377.	4.6	4
12	Superharmonic Ultrasound for Motion-Independent Localization Microscopy: Applications to Microvascular Imaging From Low to High Flow Rates. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2020, 67, 957-967.	3.0	26
13	In Vitro Superharmonic Contrast Imaging Using a Hybrid Dual-Frequency Probe. Ultrasound in Medicine and Biology, 2019, 45, 2525-2539.	1.5	22
14	Beamforming and Imaging Approaches for Array-Based Dual-Frequency Acoustic Angiography. , 2019, , .		4
15	Design and Simulation of a Ring-Shaped Linear Array for Microultrasound Capsule Endoscopy. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2018, 65, 589-599.	3.0	17
16	In Vivo Microultrasound Visualisation of Nerve Trauma Due to Regional Anaesthesia Needle Insertion and Injection. , 2018, , .		3
17	A highly compact packaging concept for ultrasound transducer arrays embedded in neurosurgical needles. Microsystem Technologies, 2017, 23, 3881-3891.	2.0	9
18	The feasibility of microâ€ultrasound as a tool to image peripheral nerves. Anaesthesia, 2017, 72, 190-196.	3.8	11

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19	High Resolution Microultrasound (Î¼US) Investigation of the Gastrointestinal (GI) Tract. Methods in Molecular Biology, 2017, 1572, 541-561.	0.9	4
20	Notice of Removal: An endoscope for micro-ultrasound and photoacoustic imaging of Barrett's esophagus. , 2017, , .		0
21	Notice of Removal: Hybrid dual frequency transducer / array probe for super-harmonic imaging. , 2017, , .		0
22	The fabrication and integration of a 15 MHz array within a biopsy needle. , 2017, , .		0
23	The fabrication and integration of a 15 MHz array within a biopsy needle. , 2017, , .		0
24	Notice of Removal: Photoacoustic assessment of nanoparticles distribution pattern in the mouse brain following blood-brain barrier (BBB) disruption. , 2017, , .		0
25	Notice of Removal: A few twists regarding the momentum of shaped beams. , 2017, , .		0
26	Notice of Removal: Dual frequency imaging of microbubbles using 1.7-MHz transmit stacks parallel to a 21-MHz receive array. , 2017, , .		0
27	Optically enhanced acoustophoresis. , 2017, , .		0
28	2-D crossed-electrode transducer arrays for ultrasonic particle manipulation. , 2016, , .		3
29	Progress towards a multi-modal capsule endoscopy device featuring microultrasound imaging. , 2016, , .		10
30	Intraoperative Ultrasound-Guided Resection of Gliomas: A Meta-Analysis and Review of the Literature. World Neurosurgery, 2016, 92, 255-263.	1.3	78
31	Implementation of a PMN-PT piezocrystal-based focused array with geodesic faceted structure. Ultrasonics, 2016, 69, 137-143.	3.9	1
32	Dual Orientation 16-MHz Single-Element Ultrasound Needle Transducers for Image-Guided Neurosurgical Intervention. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2016, 63, 233-244.	3.0	5
33	Ex-vivo navigation of neurosurgical biopsy needles using microultrasound transducers with M-mode imaging. , 2015, , .		1
34	Functional Piezocrystal Characterisation under Varying Conditions. Materials, 2015, 8, 8304-8326.	2.9	21
35	A compact packaging technique for the integration of ultrasound probes in surgical needles. , 2015, , .		0
36	Screen-printed ultrasonic 2-D matrix array transducers for microparticle manipulation. Ultrasonics, 2015, 62, 136-146.	3.9	15

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37	Piezoelectric Micromachined Ultrasound Transducer (PMUT) Arrays for Integrated Sensing, Actuation and Imaging. Sensors, 2015, 15, 8020-8041.	3.8	257
38	Tunable beam shaping with a phased array acousto-optic modulator. Optics Express, 2015, 23, 26.	3.4	35
39	Alignment of an acoustic manipulation device with cepstral analysis of electronic impedance data. Ultrasonics, 2015, 56, 172-177.	3.9	4
40	Acoustic Devices for Particle and Cell Manipulation and Sensing. Sensors, 2014, 14, 14806-14838.	3.8	53
41	Hybrid optical and acoustic force based sorting. , 2014, , .		4
42	Advanced electrical array interconnections for ultrasound probes integrated in surgical needles. , 2014, , .		4
43	15 MHz single element ultrasound needle transducers for neurosurgical applications. , 2014, , .		3
44	Design and simulation of a high-frequency ring-shaped linear array for capsule ultrasound endoscopy. , 2014, , .		8
45	FPGA embedded system for ultrasound particle manipulation with Sonotweezers. , 2014, , .		0
46	Independent trapping and manipulation of microparticles using dexterous acoustic tweezers. Applied Physics Letters, 2014, 104, 154103.	3.3	168
47	Acoustic Tractor Beam. Physical Review Letters, 2014, 112, 174302.	7.8	74
48	Dexterous manipulation of microparticles using Bessel-function acoustic pressure fields. Applied Physics Letters, 2013, 102, .	3.3	127
49	Thick film PZT transducer arrays for particle manipulation. , 2013, , .		0
50	Planar Particle Trapping and Manipulation with Ultrasonic Transducer Arrays. , 2013, , .		0
51	New piezocrystal material in the development of a 96-element array transducer for MR-guided focused ultrasound surgery. AIP Conference Proceedings, 2012, , .	0.4	2
52	Particle manipulation in a microfluidic channel with an electronically controlled linear piezoelectric array. , 2012, , .		2
53	Microfabrication of electrode patterns for high-frequency ultrasound transducer arrays. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2012, 59, 1820-1829.	3.0	12
54	Investigating the motility of Dictyostelium discodeum using high frequency ultrasound as a method of manipulation. , 2012, , .		2

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55	Micromachined diaphragm transducers for miniaturised ultrasound arrays. , 2012, , .		9
56	Low temperature bonding of piezoelectric single crystal materials for miniaturized high resolution ultrasound transducers. , 2012, , .		0
57	Low temperature bonding of piezoelectric single crystal materials for miniaturized high resolution ultrasound transducers. , 2012, , .		1
58	Array-controlled ultrasonic manipulation of particles in planar acoustic resonator. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2012, 59, 1258-1266.	3.0	85
59	Mechanical Evidence of the Orbital Angular Momentum to Energy Ratio of Vortex Beams. Physical Review Letters, 2012, 108, 194301.	7.8	143
60	Design, manufacturing and packaging of high frequency micro ultrasonic transducers for medical applications. , 2011, , .		3
61	A sonic screwdriver: Acoustic angular momentum transfer for ultrasonic manipulation. , 2011, , .		3
62	Characterization of piezocrystals for practical configurations with temperature- and pressure-dependent electrical impedance spectroscopy. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2011, 58, 1793-1803.	3.0	21
63	Characterization of an epoxy filler for piezocomposites compatible with microfabrication processes [Correspondence]. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2011, 58, 2743-2748.	3.0	9
64	The sonic screwdriver: a model system for study of wave angular momentum. , 2011, , .		1
65	Multi-wavelength ultrasonic standing wave device for non-invasive cell manipulation and characterisation. , 2011, , .		2
66	Future integration of silicon electronics with miniature piezoelectric ultrasonic transducers and arrays. , 2010, , .		4
67	Transducer arrays for ultrasonic particle manipulation. , 2010, , .		7
68	Progress towards the development of novel fabrication and assembly methods for the next generation of ultrasonic transducers. , 2010, , .		3
69	Low-voltage coded excitation utilizing a miniaturized integrated ultrasound system employing piezoelectric 2-D arrays. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2010, 57, 353-362.	3.0	9
70	Operation of a high frequency piezoelectric ultrasound array with an application specific integrated circuit. , 2009, , .		4
71	Real-time volume imaging using a crossed electrode array. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2009, 56, 1252-1261.	3.0	76
72	Investigation of cross talk in Kerfless annular arrays for high-frequency imaging. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2006, 53, 1046-1056.	3.0	22

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73	Design and fabrication of annular arrays for high-frequency ultrasound. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2004, 51, 1010-1017.	3.0	82