

# Christine E M Demore

## List of Publications by Year in descending order

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73  
papers

1,570  
citations

430874

18  
h-index

315739

38  
g-index

74  
all docs

74  
docs citations

74  
times ranked

1708  
citing authors

#	ARTICLE	IF	CITATIONS
1	Piezoelectric Micromachined Ultrasound Transducer (PMUT) Arrays for Integrated Sensing, Actuation and Imaging. <i>Sensors</i> , 2015, 15, 8020-8041.	3.8	257
2	Independent trapping and manipulation of microparticles using dexterous acoustic tweezers. <i>Applied Physics Letters</i> , 2014, 104, 154103.	3.3	168
3	Mechanical Evidence of the Orbital Angular Momentum to Energy Ratio of Vortex Beams. <i>Physical Review Letters</i> , 2012, 108, 194301.	7.8	143
4	Dexterous manipulation of microparticles using Bessel-function acoustic pressure fields. <i>Applied Physics Letters</i> , 2013, 102, .	3.3	127
5	Array-controlled ultrasonic manipulation of particles in planar acoustic resonator. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2012, 59, 1258-1266.	3.0	85
6	Design and fabrication of annular arrays for high-frequency ultrasound. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2004, 51, 1010-1017.	3.0	82
7	Intraoperative Ultrasound-Guided Resection of Gliomas: A Meta-Analysis and Review of the Literature. <i>World Neurosurgery</i> , 2016, 92, 255-263.	1.3	78
8	Real-time volume imaging using a crossed electrode array. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2009, 56, 1252-1261.	3.0	76
9	Acoustic Tractor Beam. <i>Physical Review Letters</i> , 2014, 112, 174302.	7.8	74
10	Acoustic Devices for Particle and Cell Manipulation and Sensing. <i>Sensors</i> , 2014, 14, 14806-14838.	3.8	53
11	Tunable beam shaping with a phased array acousto-optic modulator. <i>Optics Express</i> , 2015, 23, 26.	3.4	35
12	Tumor Contrast Imaging with Gas Vesicles by Circumventing the Reticuloendothelial System. <i>Ultrasound in Medicine and Biology</i> , 2020, 46, 359-368.	1.5	26
13	Superharmonic Ultrasound for Motion-Independent Localization Microscopy: Applications to Microvascular Imaging From Low to High Flow Rates. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2020, 67, 957-967.	3.0	26
14	Investigation of cross talk in Kerfless annular arrays for high-frequency imaging. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2006, 53, 1046-1056.	3.0	22
15	In Vitro Superharmonic Contrast Imaging Using a Hybrid Dual-Frequency Probe. <i>Ultrasound in Medicine and Biology</i> , 2019, 45, 2525-2539.	1.5	22
16	Characterization of piezocrystals for practical configurations with temperature- and pressure-dependent electrical impedance spectroscopy. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2011, 58, 1793-1803.	3.0	21
17	Functional Piezocrystal Characterisation under Varying Conditions. <i>Materials</i> , 2015, 8, 8304-8326.	2.9	21
18	Transcranial Photoacoustic Detection of Blood-Brain Barrier Disruption Following Focused Ultrasound-Mediated Nanoparticle Delivery. <i>Molecular Imaging and Biology</i> , 2020, 22, 324-334.	2.6	18

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19	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
20	High frequency ultrasound nonlinear scattering from porphyrin nanobubbles. Ultrasonics, 2021, 110, 106245.	3.9	17
21	Screen-printed ultrasonic 2-D matrix array transducers for microparticle manipulation. Ultrasonics, 2015, 62, 136-146.	3.9	15
22	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
23	The feasibility of micro-ultrasound as a tool to image peripheral nerves. Anaesthesia, 2017, 72, 190-196.	3.8	11
24	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
25	Progress towards a multi-modal capsule endoscopy device featuring microultrasound imaging. , 2016, , .		10
26	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
27	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
28	Micromachined diaphragm transducers for miniaturised ultrasound arrays. , 2012, , .		9
29	A highly compact packaging concept for ultrasound transducer arrays embedded in neurosurgical needles. Microsystem Technologies, 2017, 23, 3881-3891.	2.0	9
30	Design and simulation of a high-frequency ring-shaped linear array for capsule ultrasound endoscopy. , 2014, , .		8
31	Implementation of a Novel 288-Element Dual-Frequency Array for Acoustic Angiography: In Vitro and <i>In Vivo</i> Characterization. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2021, 68, 2657-2666.	3.0	8
32	Transducer arrays for ultrasonic particle manipulation. , 2010, , .		7
33	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
34	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
35	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
36	Operation of a high frequency piezoelectric ultrasound array with an application specific integrated circuit. , 2009, , .		4

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37	Future integration of silicon electronics with miniature piezoelectric ultrasonic transducers and arrays. , 2010, , .		4
38	Hybrid optical and acoustic force based sorting. , 2014, , .		4
39	Advanced electrical array interconnections for ultrasound probes integrated in surgical needles. , 2014, , .		4
40	Alignment of an acoustic manipulation device with cepstral analysis of electronic impedance data. Ultrasonics, 2015, 56, 172-177.	3.9	4
41	High Resolution Microultrasound ( $\frac{1}{4}$ US) Investigation of the Gastrointestinal (GI) Tract. Methods in Molecular Biology, 2017, 1572, 541-561.	0.9	4
42	Beamforming and Imaging Approaches for Array-Based Dual-Frequency Acoustic Angiography. , 2019, , .		4
43	Tetrazine-Derived Near-Infrared Dye as a Facile Reagent for Developing Targeted Photoacoustic Imaging Agents. Molecular Pharmaceutics, 2020, 17, 3369-3377.	4.6	4
44	Progress towards the development of novel fabrication and assembly methods for the next generation of ultrasonic transducers. , 2010, , .		3
45	Design, manufacturing and packaging of high frequency micro ultrasonic transducers for medical applications. , 2011, , .		3
46	A sonic screwdriver: Acoustic angular momentum transfer for ultrasonic manipulation. , 2011, , .		3
47	15 MHz single element ultrasound needle transducers for neurosurgical applications. , 2014, , .		3
48	2-D crossed-electrode transducer arrays for ultrasonic particle manipulation. , 2016, , .		3
49	In Vivo Microultrasound Visualisation of Nerve Trauma Due to Regional Anaesthesia Needle Insertion and Injection. , 2018, , .		3
50	High-Frequency Array-Based Nanobubble Nonlinear Imaging in a Phantom and <i>In Vivo</i> . IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2021, 68, 2059-2074.	3.0	3
51	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
52	Multi-wavelength ultrasonic standing wave device for non-invasive cell manipulation and characterisation. , 2011, , .		2
53	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
54	Particle manipulation in a microfluidic channel with an electronically controlled linear piezoelectric array. , 2012, , .		2

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55	Investigating the motility of Dictyostelium discoideum using high frequency ultrasound as a method of manipulation. , 2012, , .		2
56	The sonic screwdriver: a model system for study of wave angular momentum. , 2011, , .		1
57	Low temperature bonding of piezoelectric single crystal materials for miniaturized high resolution ultrasound transducers. , 2012, , .		1
58	Ex-vivo navigation of neurosurgical biopsy needles using microultrasound transducers with M-mode imaging. , 2015, , .		1
59	Implementation of a PMN-PT piezocrystal-based focused array with geodesic faceted structure. Ultrasonics, 2016, 69, 137-143.	3.9	1
60	Low temperature bonding of piezoelectric single crystal materials for miniaturized high resolution ultrasound transducers. , 2012, , .		0
61	Thick film PZT transducer arrays for particle manipulation. , 2013, , .		0
62	FPGA embedded system for ultrasound particle manipulation with Sonotweezers. , 2014, , .		0
63	A compact packaging technique for the integration of ultrasound probes in surgical needles. , 2015, , .		0
64	Notice of Removal: An endoscope for micro-ultrasound and photoacoustic imaging of Barrett's esophagus. , 2017, , .		0
65	Notice of Removal: Hybrid dual frequency transducer / array probe for super-harmonic imaging. , 2017, , .		0
66	The fabrication and integration of a 15 MHz array within a biopsy needle. , 2017, , .		0
67	The fabrication and integration of a 15 MHz array within a biopsy needle. , 2017, , .		0
68	Notice of Removal: Photoacoustic assessment of nanoparticles distribution pattern in the mouse brain following blood-brain barrier (BBB) disruption. , 2017, , .		0
69	Notice of Removal: A few twists regarding the momentum of shaped beams. , 2017, , .		0
70	Notice of Removal: Dual frequency imaging of microbubbles using 1.7-MHz transmit stacks parallel to a 21-MHz receive array. , 2017, , .		0
71	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
72	Planar Particle Trapping and Manipulation with Ultrasonic Transducer Arrays. , 2013, , .		0

#	ARTICLE	IF	CITATIONS
73	Optically enhanced acoustophoresis. , 2017, , .		0