

Christine E M Demore

List of Publications by Year in descending order

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Version: 2024-02-01

73
papers

1,570
citations

430843

18
h-index

315719

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 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 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 |

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|----|---|----|-----------|
| 73 | Optically enhanced acoustophoresis. , 2017, , . | | 0 |