

Qifa Zhou

List of Publications by Year in descending order

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Version: 2024-02-01

181
papers

6,834
citations

66250

44
h-index

81351

76
g-index

182
all docs

182
docs citations

182
times ranked

7729
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Monitoring of the central blood pressure waveform via a conformal ultrasonic device. <i>Nature Biomedical Engineering</i> , 2018, 2, 687-695. | 11.6 | 520 |
| 2 | Recent Progress in Biomimetic Additive Manufacturing Technology: From Materials to Functional Structures. <i>Advanced Materials</i> , 2018, 30, e1706539. | 11.1 | 325 |
| 3 | 3D-Printed Biomimetic Super-Hydrophobic Structure for Microdroplet Manipulation and Oil/Water Separation. <i>Advanced Materials</i> , 2018, 30, 1704912. | 11.1 | 312 |
| 4 | Piezoelectric single crystal ultrasonic transducers for biomedical applications. <i>Progress in Materials Science</i> , 2014, 66, 87-111. | 16.0 | 299 |
| 5 | Piezoelectric films for high frequency ultrasonic transducers in biomedical applications. <i>Progress in Materials Science</i> , 2011, 56, 139-174. | 16.0 | 275 |
| 6 | Electrically assisted 3D printing of nacre-inspired structures with self-sensing capability. <i>Science Advances</i> , 2019, 5, eaau9490. | 4.7 | 214 |
| 7 | Biomimetic Anisotropic Reinforcement Architectures by Electrically Assisted Nanocomposite 3D Printing. <i>Advanced Materials</i> , 2017, 29, 1605750. | 11.1 | 212 |
| 8 | Stretchable ultrasonic transducer arrays for three-dimensional imaging on complex surfaces. <i>Science Advances</i> , 2018, 4, eaar3979. | 4.7 | 204 |
| 9 | AlN piezoelectric thin films for energy harvesting and acoustic devices. <i>Nano Energy</i> , 2018, 51, 146-161. | 8.2 | 149 |
| 10 | PMN-PT single crystal, high-frequency ultrasonic needle transducers for pulsed-wave Doppler application. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2007, 54, 668-675. | 1.7 | 141 |
| 11 | Three dimensional printing of high dielectric capacitor using projection based stereolithography method. <i>Nano Energy</i> , 2016, 22, 414-421. | 8.2 | 138 |
| 12 | High-speed Intravascular Photoacoustic Imaging of Lipid-laden Atherosclerotic Plaque Enabled by a 2-RHz Barium Nitrite Raman Laser. <i>Scientific Reports</i> , 2014, 4, 6889. | 1.6 | 107 |
| 13 | Stretchable Nanolayered Thermoelectric Energy Harvester on Complex and Dynamic Surfaces. <i>Nano Letters</i> , 2020, 20, 4445-4453. | 4.5 | 106 |
| 14 | Flexible piezoelectric ultrasonic energy harvester array for bio-implantable wireless generator. <i>Nano Energy</i> , 2019, 56, 216-224. | 8.2 | 105 |
| 15 | Label-free automated three-dimensional imaging of whole organs by microtomy-assisted photoacoustic microscopy. <i>Nature Communications</i> , 2017, 8, 1386. | 5.8 | 104 |
| 16 | Reflection-mode submicron-resolution in vivo photoacoustic microscopy. <i>Journal of Biomedical Optics</i> , 2012, 17, 020501. | 1.4 | 102 |
| 17 | 3D Printing of Functional Magnetic Materials: From Design to Applications. <i>Advanced Functional Materials</i> , 2021, 31, 2102777. | 7.8 | 91 |
| 18 | Phase-resolved acoustic radiation force optical coherence elastography. <i>Journal of Biomedical Optics</i> , 2012, 17, 110505. | 1.4 | 87 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | High-speed widefield photoacoustic microscopy of small-animal hemodynamics. Biomedical Optics Express, 2018, 9, 4689. | 1.5 | 85 |
| 20 | Ultrasound-aided Multi-parametric Photoacoustic Microscopy of the Mouse Brain. Scientific Reports, 2016, 5, 18775. | 1.6 | 78 |
| 21 | Optical-resolution photoacoustic endomicroscopy in vivo. Biomedical Optics Express, 2015, 6, 918. | 1.5 | 73 |
| 22 | Ultrasound-induced wireless energy harvesting: From materials strategies to functional applications. Nano Energy, 2020, 77, 105131. | 8.2 | 69 |
| 23 | Spectroscopic intravascular photoacoustic imaging of lipids in atherosclerosis. Journal of Biomedical Optics, 2014, 19, 026006. | 1.4 | 63 |
| 24 | Multifunctional single beam acoustic tweezer for non-invasive cell/organism manipulation and tissue imaging. Scientific Reports, 2016, 6, 37554. | 1.6 | 58 |
| 25 | Acoustic Radiation Force Optical Coherence Elastography of Corneal Tissue. IEEE Journal of Selected Topics in Quantum Electronics, 2016, 22, 288-294. | 1.9 | 58 |
| 26 | Multilayered carbon nanotube yarn based optoacoustic transducer with high energy conversion efficiency for ultrasound application. Nano Energy, 2018, 46, 314-321. | 8.2 | 58 |
| 27 | High speed intravascular photoacoustic imaging with fast optical parametric oscillator laser at 1.7 μm . Applied Physics Letters, 2015, 107, 083701. | 1.5 | 57 |
| 28 | Ultrasound-Induced Wireless Energy Harvesting for Potential Retinal Electrical Stimulation Application. Advanced Functional Materials, 2019, 29, 1902522. | 7.8 | 56 |
| 29 | Self-Focused AlScN Film Ultrasound Transducer for Individual Cell Manipulation. ACS Sensors, 2017, 2, 172-177. | 4.0 | 54 |
| 30 | Integrated IVUS-OCT Imaging for Atherosclerotic Plaque Characterization. IEEE Journal of Selected Topics in Quantum Electronics, 2014, 20, 196-203. | 1.9 | 53 |
| 31 | Feasibility of co-registered ultrasound and acoustic-resolution photoacoustic imaging of human colorectal cancer. Biomedical Optics Express, 2018, 9, 5159. | 1.5 | 53 |
| 32 | Alumina/epoxy nanocomposite matching layers for high-frequency ultrasound transducer application. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2009, 56, 213-219. | 1.7 | 52 |
| 33 | Catheter-based photoacoustic endoscope. Journal of Biomedical Optics, 2014, 19, 1. | 1.4 | 52 |
| 34 | Multiparametric photoacoustic microscopy of the mouse brain with 300-kHz A-line rate. Neurophotonics, 2016, 3, 045006. | 1.7 | 52 |
| 35 | Real-time whole-brain imaging of hemodynamics and oxygenation at micro-vessel resolution with ultrafast wide-field photoacoustic microscopy. Light: Science and Applications, 2022, 11, 138. | 7.7 | 52 |
| 36 | High Frequency PMN-PT 1-3 Composite Transducer for Ultrasonic Imaging Application. Ferroelectrics, 2010, 408, 120-128. | 0.3 | 51 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | In Vivo Near Infrared Virtual Intraoperative Surgical Photoacoustic Optical Coherence Tomography. Scientific Reports, 2016, 6, 35176. | 1.6 | 51 |
| 38 | Eco-Friendly Highly Sensitive Transducers Based on a New KNNâ€“NTKâ€“FM Lead-Free Piezoelectric Ceramic for High-Frequency Biomedical Ultrasonic Imaging Applications. IEEE Transactions on Biomedical Engineering, 2019, 66, 1580-1587. | 2.5 | 51 |
| 39 | In Vivo Elasticity Mapping of Posterior Ocular Layers Using Acoustic Radiation Force Optical Coherence Elastography. , 2018, 59, 455. | | 50 |
| 40 | 3D-Printing Piezoelectric Composite with Honeycomb Structure for Ultrasonic Devices. Micromachines, 2020, 11, 713. | 1.4 | 48 |
| 41 | Flexible ultrasound-induced retinal stimulating piezo-arrays for biomimetic visual prostheses. Nature Communications, 2022, 13, . | 5.8 | 48 |
| 42 | High-Resolution Acoustic-Radiation-Force-Impulse Imaging for Assessing Corneal Sclerosis. IEEE Transactions on Medical Imaging, 2013, 32, 1316-1324. | 5.4 | 47 |
| 43 | Design of matching layers for high-frequency ultrasonic transducers. Applied Physics Letters, 2015, 107, 123505. | 1.5 | 47 |
| 44 | (100)-Textured KNN-based thick film with enhanced piezoelectric property for intravascular ultrasound imaging. Applied Physics Letters, 2015, 106, 173504. | 1.5 | 47 |
| 45 | Simultaneously imaging and quantifying <i>in vivo</i> mechanical properties of crystalline lens and cornea using optical coherence elastography with acoustic radiation force excitation. APL Photonics, 2019, 4, . | 3.0 | 47 |
| 46 | Fully integrated optical coherence tomography, ultrasound, and indocyanine green-based fluorescence tri-modality system for intravascular imaging. Biomedical Optics Express, 2017, 8, 1036. | 1.5 | 46 |
| 47 | High resolution optical coherence elastography of retina under prosthetic electrode. Quantitative Imaging in Medicine and Surgery, 2020, 11, 918-927. | 1.1 | 46 |
| 48 | Quantitative Assessment of Thin-Layer Tissue Viscoelastic Properties Using Ultrasonic Micro-Elastography With Lamb Wave Model. IEEE Transactions on Medical Imaging, 2018, 37, 1887-1898. | 5.4 | 44 |
| 49 | Three-Dimensional Photoacoustic Endoscopic Imaging of the Rabbit Esophagus. PLoS ONE, 2015, 10, e0120269. | 1.1 | 43 |
| 50 | A feasibility study of <i>in vivo</i> applications of single beam acoustic tweezers. Applied Physics Letters, 2014, 105, 173701. | 1.5 | 41 |
| 51 | High-speed intravascular photoacoustic imaging at 17 μ m with a KTP-based OPO. Biomedical Optics Express, 2015, 6, 4557. | 1.5 | 41 |
| 52 | 3D mapping of elastic modulus using shear wave optical micro-elastography. Scientific Reports, 2016, 6, 35499. | 1.6 | 41 |
| 53 | Multi-functional Ultrasonic Micro-elastography Imaging System. Scientific Reports, 2017, 7, 1230. | 1.6 | 40 |
| 54 | Confocal acoustic radiation force optical coherence elastography using a ring ultrasonic transducer. Applied Physics Letters, 2014, 104, 123702. | 1.5 | 39 |

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|----|--|-----|-----------|
| 55 | Characterizing intestinal inflammation and fibrosis in Crohn's disease by photoacoustic imaging: feasibility study. <i>Biomedical Optics Express</i> , 2016, 7, 2837. | 1.5 | 39 |
| 56 | Quantified elasticity mapping of retinal layers using synchronized acoustic radiation force optical coherence elastography. <i>Biomedical Optics Express</i> , 2018, 9, 4054. | 1.5 | 39 |
| 57 | Fabrication of a (K,Na)NbO ₃ -based lead-free 1-3 piezocomposite for high-sensitivity ultrasonic transducers application. <i>Journal of Applied Physics</i> , 2019, 125, . | 1.1 | 39 |
| 58 | Acoustic levitation and manipulation by a high-frequency focused ring ultrasonic transducer. <i>Applied Physics Letters</i> , 2019, 114, . | 1.5 | 39 |
| 59 | Urogenital photoacoustic endoscope. <i>Optics Letters</i> , 2014, 39, 1473. | 1.7 | 38 |
| 60 | Quad-mode functional and molecular photoacoustic microscopy. <i>Scientific Reports</i> , 2018, 8, 11123. | 1.6 | 38 |
| 61 | Determining the Acoustic Properties of the Lens Using A High-Frequency Ultrasonic Needle Transducer. <i>Ultrasound in Medicine and Biology</i> , 2007, 33, 1971-1977. | 0.7 | 37 |
| 62 | Transparent High-Frequency Ultrasonic Transducer for Photoacoustic Microscopy Application. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2020, 67, 1848-1853. | 1.7 | 37 |
| 63 | Ultrasonic Microelastography to Assess Biomechanical Properties of the Cornea. <i>IEEE Transactions on Biomedical Engineering</i> , 2019, 66, 647-655. | 2.5 | 34 |
| 64 | Deep image prior for undersampling high-speed photoacoustic microscopy. <i>Photoacoustics</i> , 2021, 22, 100266. | 4.4 | 33 |
| 65 | PMN-PT/Epoxy 1-3 composite based ultrasonic transducer for dual-modality photoacoustic and ultrasound endoscopy. <i>Photoacoustics</i> , 2019, 15, 100138. | 4.4 | 32 |
| 66 | Micro-particle manipulation by single beam acoustic tweezers based on hydrothermal PZT thick film. <i>AIP Advances</i> , 2016, 6, 035102. | 0.6 | 28 |
| 67 | High-Resolution Shear Wave Imaging of the Human Cornea Using a Dual-Element Transducer. <i>Sensors</i> , 2018, 18, 4244. | 2.1 | 26 |
| 68 | Confocal Shear Wave Acoustic Radiation Force Optical Coherence Elastography for Imaging and Quantification of the <i>In Vivo</i> Posterior Eye. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2019, 25, 1-7. | 1.9 | 26 |
| 69 | Ultrasonic elastography to assess biomechanical properties of the optic nerve head and peripapillary sclera of the eye. <i>Ultrasonics</i> , 2021, 110, 106263. | 2.1 | 25 |
| 70 | A sidelobe suppressing near-field beamforming approach for ultrasound array imaging. <i>Journal of the Acoustical Society of America</i> , 2015, 137, 2785-2790. | 0.5 | 24 |
| 71 | Temporal Neuromodulation of Retinal Ganglion Cells by Low-Frequency Focused Ultrasound Stimulation. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2018, 26, 969-976. | 2.7 | 24 |
| 72 | Forward-looking 30-MHz phased-array transducer for peripheral intravascular imaging. <i>Sensors and Actuators A: Physical</i> , 2018, 280, 145-163. | 2.0 | 24 |

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|----|---|------|-----------|
| 73 | High-Speed Integrated Endoscopic Photoacoustic and Ultrasound Imaging System. IEEE Journal of Selected Topics in Quantum Electronics, 2019, 25, 1-5. | 1.9 | 24 |
| 74 | Ultrahigh frequency ZnO silicon lens ultrasonic transducer for cell-size microparticle manipulation. Journal of Alloys and Compounds, 2017, 729, 556-562. | 2.8 | 23 |
| 75 | An adjustable multi-scale single beam acoustic tweezers based on ultrahigh frequency ultrasonic transducer. Biotechnology and Bioengineering, 2017, 114, 2637-2647. | 1.7 | 23 |
| 76 | Development of an intravascular ultrasound elastography based on a dual-element transducer. Royal Society Open Science, 2018, 5, 180138. | 1.1 | 23 |
| 77 | Three-Dimensional Printed Piezoelectric Array for Improving Acoustic Field and Spatial Resolution in Medical Ultrasonic Imaging. Micromachines, 2019, 10, 170. | 1.4 | 23 |
| 78 | In Vivo Visualization of Eye Vasculature Using Super-Resolution Ultrasound Microvessel Imaging. IEEE Transactions on Biomedical Engineering, 2020, 67, 2870-2880. | 2.5 | 23 |
| 79 | Photoacoustic and piezo-ultrasound hybrid-induced energy transfer for 3D twining wireless multifunctional implants. Energy and Environmental Science, 2021, 14, 1490-1505. | 15.6 | 23 |
| 80 | Micro-machined high-frequency (80 MHz) PZT thick film linear arrays. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2010, 57, 2213-2220. | 1.7 | 21 |
| 81 | Real-time Near-infrared Virtual Intraoperative Surgical Photoacoustic Microscopy. Photoacoustics, 2015, 3, 100-106. | 4.4 | 21 |
| 82 | Systematic study of high-frequency ultrasonic transducer design for laser-scanning photoacoustic ophthalmoscopy. Journal of Biomedical Optics, 2014, 19, 016015. | 1.4 | 20 |
| 83 | Multifocal point beam forming by a single ultrasonic transducer with 3D printed holograms. Applied Physics Letters, 2018, 113, . | 1.5 | 19 |
| 84 | Advances in Endoscopic Photoacoustic Imaging. Photonics, 2021, 8, 281. | 0.9 | 19 |
| 85 | High Frequency Needle Ultrasonic Transducers Based on Lead-Free Co Doped Na _{0.5} Bi _{4.5} Ti ₄ O ₁₅ Piezo-Ceramics. Micromachines, 2018, 9, 291. | 1.4 | 18 |
| 86 | A combined ultrasonic B-mode and color Doppler system for the classification of breast masses using neural network. European Radiology, 2020, 30, 3023-3033. | 2.3 | 18 |
| 87 | Photoacoustic imaging features of intraocular tumors: Retinoblastoma and uveal melanoma. PLoS ONE, 2017, 12, e0170752. | 1.1 | 18 |
| 88 | High-Frequency Ultrasonic Imaging with Lead-free (Na,K)(Nb,Ta)O ₃ Single Crystal. Ultrasonic Imaging, 2017, 39, 348-356. | 1.4 | 17 |
| 89 | Dual-frequency piezoelectric micromachined ultrasonic transducers. Applied Physics Letters, 2019, 115, . | 1.5 | 17 |
| 90 | Optical Resolution Photoacoustic Microscopy of Ovary and Fallopian Tube. Scientific Reports, 2019, 9, 14306. | 1.6 | 17 |

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|-----|--|------|-----------|
| 91 | <i>In vivo</i> evaluation of posterior eye elasticity using shaker-based optical coherence elastography. <i>Experimental Biology and Medicine</i> , 2020, 245, 282-288. | 1.1 | 17 |
| 92 | Noninvasive Ultrasound Retinal Stimulation for Vision Restoration at High Spatiotemporal Resolution. <i>BME Frontiers</i> , 2022, 2022, . | 2.2 | 17 |
| 93 | Quantitative confocal optical coherence elastography for evaluating biomechanics of optic nerve head using Lamb wave model. <i>Neurophotonics</i> , 2019, 6, 1. | 1.7 | 16 |
| 94 | Correcting the limited view in optical resolution photoacoustic microscopy. <i>Journal of Biophotonics</i> , 2018, 11, e201700196. | 1.1 | 15 |
| 95 | Helical-Like 3D Ultrathin Piezoelectric Element for Complicated Ultrasonic Field. <i>Advanced Functional Materials</i> , 2019, 29, 1902912. | 7.8 | 15 |
| 96 | Co-Integrated PIN-PMN-PT 2-D Array and Transceiver Electronics by Direct Assembly Using a 3-D Printed Interposer Grid Frame. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2020, 67, 387-401. | 1.7 | 15 |
| 97 | Recent progress in 3D printing piezoelectric materials for biomedical applications. <i>Journal Physics D: Applied Physics</i> , 2022, 55, 013002. | 1.3 | 15 |
| 98 | High-Frequency Ultrasound Elastography to Assess the Nonlinear Elastic Properties of the Cornea and Ciliary Body. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2022, 69, 2621-2629. | 1.7 | 15 |
| 99 | Ultrafast ultrasound imaging in acoustic microbubble trapping. <i>Applied Physics Letters</i> , 2019, 115, . | 1.5 | 14 |
| 100 | Fabrication and Characterization of a Miniaturized 15-MHz Side-Looking Phased-Array Transducer Catheter. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2019, 66, 1079-1092. | 1.7 | 14 |
| 101 | Super-Resolution Ultrasound Localization Microscopy for Visualization of the Ocular Blood Flow. <i>IEEE Transactions on Biomedical Engineering</i> , 2022, 69, 1585-1594. | 2.5 | 14 |
| 102 | Two-Point Stretchable Electrode Array for Endoluminal Electrochemical Impedance Spectroscopy Measurements of Lipid-Laden Atherosclerotic Plaques. <i>Annals of Biomedical Engineering</i> , 2016, 44, 2695-2706. | 1.3 | 13 |
| 103 | Current Ultrasound Technologies and Instrumentation in the Assessment and Monitoring of COVID-19 Positive Patients. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2020, 67, 2230-2240. | 1.7 | 13 |
| 104 | High resolution ultrasonic neural modulation observed via <i>in vivo</i> two-photon calcium imaging. <i>Brain Stimulation</i> , 2022, 15, 190-196. | 0.7 | 13 |
| 105 | Distribution and deposition of organic fouling on the microfiltration membrane evaluated by high-frequency ultrasound. <i>Journal of Membrane Science</i> , 2013, 433, 100-111. | 4.1 | 12 |
| 106 | Dual frequency transducers for intravascular ultrasound super-harmonic imaging and acoustic angiography. , 2014, , . | | 12 |
| 107 | Superhydrophobicity: 3D-Printed Biomimetic Super-Hydrophobic Structure for Microdroplet Manipulation and Oil/Water Separation (<i>Adv. Mater.</i> 9/2018). <i>Advanced Materials</i> , 2018, 30, 1870062. | 11.1 | 12 |
| 108 | Photoacoustic thermal flowmetry with a single light source. <i>Journal of Biomedical Optics</i> , 2017, 22, 1. | 1.4 | 12 |

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|-----|--|-----|-----------|
| 109 | Ultrasonic transducer-guided electrochemical impedance spectroscopy to assess lipid-laden plaques. <i>Sensors and Actuators B: Chemical</i> , 2016, 235, 154-161. | 4.0 | 11 |
| 110 | 2-D Ultrasonic Array-Based Optical Coherence Elastography. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2021, 68, 1096-1104. | 1.7 | 11 |
| 111 | Ultrahigh Frequency Ultrasonic Transducers Design with Low Noise Amplifier Integrated Circuit. <i>Micromachines</i> , 2018, 9, 515. | 1.4 | 10 |
| 112 | From Light to Sound: Photoacoustic and Ultrasound Imaging in Fundamental Research of Alzheimer's Disease. , 2020, 4, 1-21. | | 10 |
| 113 | Non-contact acoustic radiation force impulse microscopy via photoacoustic detection for probing breast cancer cell mechanics. <i>Biomedical Optics Express</i> , 2015, 6, 11. | 1.5 | 9 |
| 114 | Fabrication and Characterization of High-Frequency Ultrasound Transducers Based on Lead-Free BNT-BT Tape-Casting Thick Film. <i>Sensors</i> , 2018, 18, 3166. | 2.1 | 9 |
| 115 | CMOS High-Voltage Analog 16×64 Multiplexer/Demultiplexer for Integrated Ultrasound Guided Breast Needle Biopsy. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2018, 65, 1334-1345. | 1.7 | 9 |
| 116 | A Novel Racing Array Transducer for Noninvasive Ultrasonic Retinal Stimulation: A Simulation Study. <i>Sensors</i> , 2019, 19, 1825. | 2.1 | 9 |
| 117 | Enhanced Structures and Electrical Properties of Lead-Free $K_{0.5}Na_{0.5}NbO_3 \cdot Bi_{0.5}Na_{0.5}TiO_3 \cdot O_3$ Composite Ferroelectric Thick Films. <i>Journal of the American Ceramic Society</i> , 2011, 94, 3425-3430. | | 8 |
| 118 | High Resolution ADC for Ultrasound Color Doppler Imaging Based on MASH Sigma-Delta Modulator. <i>IEEE Transactions on Biomedical Engineering</i> , 2020, 67, 1438-1449. | 2.5 | 8 |
| 119 | Acoustic Energy Controlled Nanoparticle Aggregation for Nanotherapy. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2020, 67, 735-744. | 1.7 | 8 |
| 120 | High-resolution harmonic motion imaging (HR-HMI) for tissue biomechanical property characterization. <i>Quantitative Imaging in Medicine and Surgery</i> , 2015, 5, 108-17. | 1.1 | 8 |
| 121 | Ultrasound-Guided Intravascular Sonothrombolysis With a Dual Mode Ultrasound Catheter: <i>In Vitro</i> Study. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2022, 69, 1917-1925. | 1.7 | 8 |
| 122 | A Novel Ultrasound Technique for Non-Invasive Assessment of Cell Differentiation. <i>IEEE Sensors Journal</i> , 2016, 16, 61-68. | 2.4 | 7 |
| 123 | Modular Fabrication and Assembly of Large 2D Arrays with Interface Asics, Pin-Pmn-Pt Composite, and 3D Printed Backing. , 2018, , . | | 7 |
| 124 | Concurrent photoacoustic and ultrasound microscopy with a coaxial dual-element ultrasonic transducer. <i>Visual Computing for Industry, Biomedicine, and Art</i> , 2018, 1, 3. | 2.2 | 7 |
| 125 | Tiled Large Element 1.75D Aperture with Dual Array Modules by Adjacent Integration of PIN-PMN-PT Transducers and Custom High Voltage Switching ASICs. , 2019, , . | | 7 |
| 126 | Photoacoustic imaging of 3D-printed vascular networks. <i>Biofabrication</i> , 2022, 14, 025001. | 3.7 | 7 |

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|-----|--|------|-----------|
| 127 | Endoscopic ultrasound radial arrays fabricated with high-performance piezocrystal and piezocomposite. , 2010, , . | | 6 |
| 128 | Single microparticle manipulation by an ultrasound microbeam. , 2010, , . | | 6 |
| 129 | Development of integrated preamplifier for high frequency ultrasonic transducer. , 2010, , . | | 5 |
| 130 | A configurable dual-frequency transmit/receive system for acoustic angiography imaging. , 2014, , . | | 5 |
| 131 | Manipulation and Mechanical Deformation of Leukemia Cells by High-Frequency Ultrasound Single Beam. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2022, 69, 1889-1897. | 1.7 | 5 |
| 132 | High frequency ultrasonic transducer with KNN/BNT 0–3 composite active element. , 2010, , . | | 4 |
| 133 | Novel limiter using bipolar power transistors for high frequency ultrasonic transducer applications. , 2011, , . | | 4 |
| 134 | Vibration energy harvesting using piezoelectric circular diaphragm array. , 2011, , . | | 4 |
| 135 | An open system for intravascular ultrasound imaging. , 2012, , . | | 4 |
| 136 | Focused ultrasound stimulation on meibomian glands for the treatment of evaporative dry eye. Experimental Biology and Medicine, 2022, 247, 519-526. | 1.1 | 4 |
| 137 | Sonothrombolysis of Ear Marginal Vein of Rabbits Monitored with High-frequency Ultrasound Needle Transducer. Journal of Medical and Biological Engineering, 2013, 33, 103-110. | 1.0 | 4 |
| 138 | Estimating Thrombus Elasticity by Shear Wave Elastography to Evaluate Ultrasound Thrombolysis for Thrombus With Different Stiffness. IEEE Transactions on Biomedical Engineering, 2023, 70, 135-143. | 2.5 | 4 |
| 139 | Highly Integrated Multiplexing and Buffering Electronics for Large Aperture Ultrasonic Arrays. BME Frontiers, 2022, 2022, . | 2.2 | 4 |
| 140 | High frequency single crystal ultrasonic transducers up to 100 MHz for high resolution ophthalmic imaging applications. , 2017, , . | | 3 |
| 141 | Large Area 1.75D Array for Liver Cancer by Tiling of Multi-Generation ASIC Array Modules. , 2020, , . | | 3 |
| 142 | Real-time co-registered IVUS-OCT catheter for atherosclerotic plaque identification. , 2013, , . | | 2 |
| 143 | Biomimetics: Biomimetic Anisotropic Reinforcement Architectures by Electrically Assisted Nanocomposite 3D Printing (Adv. Mater. 11/2017). Advanced Materials, 2017, 29, . | 11.1 | 2 |
| 144 | High frequency single crystal ultrasonic transducers up to 100 MHz for high resolution ophthalmic imaging applications. , 2017, , . | | 2 |

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|-----|---|-----|-----------|
| 145 | Correlation of IOP with Corneal Acoustic Impedance in Porcine Eye Model. <i>BioMed Research International</i> , 2017, 2017, 1-6. | 0.9 | 2 |
| 146 | PIN-PMN-PT single crystal composite and 3D printed interposer backing for ASIC integration of large aperture 2D array. , 2017, , . | | 2 |
| 147 | Visibility of Bioresorbable Vascular Scaffold in Intravascular Ultrasound Imaging. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2020, 67, 1090-1101. | 1.7 | 2 |
| 148 | Layer-specific ultrasound elastography using a multi-layered shear wave dispersion model for assessing the viscoelastic properties. <i>Physics in Medicine and Biology</i> , 2021, 66, 035003. | 1.6 | 2 |
| 149 | Fabrication and modeling of broadband ultrasonic transducers using partial composites. , 0, , . | | 1 |
| 150 | PMN-PT high frequency ultrasonic needle transducers for pulsed wave Doppler in the eye. , 0, , . | | 1 |
| 151 | Novel biomedical imaging that combines intravascular ultrasound (IVUS) and optical coherence tomography (OCT). , 2008, , . | | 1 |
| 152 | Compensation of the transducer response for high frequency coded excitation imaging. , 2009, , . | | 1 |
| 153 | High frequency, high frame rate pulse inversion chirp coded tissue harmonic imaging. , 2011, , . | | 1 |
| 154 | 80 MHz Intravascular Ultrasound (IVUS) transducer. , 2011, , . | | 1 |
| 155 | Ultrahigh frequency ultrasound microbeam for biomedical applications. , 2012, , . | | 1 |
| 156 | Integrated IVUS-OCT catheter for in vivo intravascular imaging. , 2012, , . | | 1 |
| 157 | Zebrafish egg manipulation using ultrasound microbeam. , 2013, , . | | 1 |
| 158 | Piezoelectric array for transducer application using additive manufacturing. , 2017, , . | | 1 |
| 159 | Notice of Removal: Intravascular Ultrasound (IVUS) imaging reaching 100 MHz. , 2017, , . | | 1 |
| 160 | Novel Configurations of Ultrahigh Frequency (â‰‰600 MHz) Analog Frontend for High Resolution Ultrasound Measurement. <i>Sensors</i> , 2018, 18, 2598. | 2.1 | 1 |
| 161 | Editorial for the Special Issue on MEMS Technology for Biomedical Imaging Applications. <i>Micromachines</i> , 2019, 10, 615. | 1.4 | 1 |
| 162 | Biomedical Applications: Ultrasoundâ€Induced Wireless Energy Harvesting for Potential Retinal Electrical Stimulation Application (<i>Adv. Funct. Mater.</i> 33/2019). <i>Advanced Functional Materials</i> , 2019, 29, 1970231. | 7.8 | 1 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 163 | Design of dual-frequency piezoelectric micromachined ultrasonic transducers. , 2019, , . | | 1 |
| 164 | High Frequency 1.75D array using a 3D printed pitch-changing interposer backing. , 2020, , . | | 1 |
| 165 | Development of Moderate Intensity Focused Ultrasound (MIFU) for Ocular Drug Delivery. BME Frontiers, 2022, 2022, . | 2.2 | 1 |
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