

# F Stuart Foster Foster

## List of Publications by Year in Descending Order

**Source:** <https://exaly.com/author-pdf/9083123/f-stuart-foster-foster-publications-by-year.pdf>

**Version:** 2024-04-23

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

183  
papers

8,972  
citations

51  
h-index

90  
g-index

201  
ext. papers

10,341  
ext. citations

4.3  
avg, IF

5.77  
L-index

| #   | Paper  | IF  | Citations |
|-----|--|-----|-----------|
| 183 | A novel, hands-free ultrasound patch for continuous monitoring of quantitative Doppler in the carotid artery. <i>Scientific Reports</i> , <b>2021</b> , 11, 7780   | 4.9 | 9         |
| 182 | Ultra high-frequency ultrasound with seventy-MHz transducer in hair disorders: Development of a novel noninvasive diagnostic methodology. <i>Journal of Dermatological Science</i> , <b>2021</b> , 102, 167-176  | 4.3 | 2         |
| 181 | Characterization of an Array-Based Dual-Frequency Transducer for Superharmonic Contrast Imaging. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , <b>2021</b> , 68, 2419-2431  | 3.2 | 1         |
| 180 | Implementation of a Novel 288-Element Dual-Frequency Array for Acoustic Angiography: In Vitro and In Vivo Characterization. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , <b>2021</b> , 68, 2657-2666               | 3.2 | 2         |
| 179 | 30/80 MHz Bidirectional Dual-Frequency IVUS Feasibility Evaluated In Vivo and for Stent Imaging. <i>Ultrasound in Medicine and Biology</i> , <b>2020</b> , 46, 2104-2112   | 3.5 | 3         |
| 178 | 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> , <b>2020</b> , 67, 957-967 | 3.2 | 14        |
| 177 | Tumor Contrast Imaging with Gas Vesicles by Circumventing the Reticuloendothelial System. <i>Ultrasound in Medicine and Biology</i> , <b>2020</b> , 46, 359-368  | 3.5 | 11        |
| 176 | Transcranial Photoacoustic Detection of Blood-Brain Barrier Disruption Following Focused Ultrasound-Mediated Nanoparticle Delivery. <i>Molecular Imaging and Biology</i> , <b>2020</b> , 22, 324-334   | 3.8 | 9         |
| 175 | In Vitro Superharmonic Contrast Imaging Using a Hybrid Dual-Frequency Probe. <i>Ultrasound in Medicine and Biology</i> , <b>2019</b> , 45, 2525-2539   | 3.5 | 16        |
| 174 | Frequency-domain differential photoacoustic radar: theory and simulation for ultra-sensitive cholesterol imaging <b>2019</b> ,   |     | 3         |
| 173 | Enhanced Depth of Field Acoustic Angiography with a Prototype 288-element Dual-Frequency Array <b>2019</b> ,   |     | 1         |
| 172 | Beamforming and Imaging Approaches for Array-Based Dual-Frequency Acoustic Angiography <b>2019</b> ,   |     | 1         |
| 171 | Immune checkpoint inhibitor-related alopecia: Insight into the pathophysiology utilizing non-invasive diagnostic techniques. <i>Journal of Dermatology</i> , <b>2019</b> , 46, e152-e153   | 1.6 | 3         |
| 170 | In vivo Biodistribution of Radiolabeled Acoustic Protein Nanostructures. <i>Molecular Imaging and Biology</i> , <b>2018</b> , 20, 230-239  | 3.8 | 10        |
| 169 | Ultrasound and Infrared-Based Imaging Modalities for Diagnosis and Management of Cutaneous Diseases. <i>Frontiers in Medicine</i> , <b>2018</b> , 5, 115   | 4.9 | 10        |
| 168 | High-Frequency Micro-Ultrasound Imaging and Optical Topographic Imaging for Spinal Surgery: Initial Experiences. <i>Ultrasound in Medicine and Biology</i> , <b>2018</b> , 44, 2379-2387   | 3.5 | 9         |
| 167 | Development of a 3 French Dual-Frequency Intravascular Ultrasound Catheter. <i>Ultrasound in Medicine and Biology</i> , <b>2018</b> , 44, 251-266  | 3.5 | 16        |

|     |   |      |     |
|-----|---|------|-----|
| 166 | Acoustic Behavior of Halobacterium salinarum Gas Vesicles in the High-Frequency Range: Experiments and Modeling. <i>Ultrasound in Medicine and Biology</i> , <b>2017</b> , 43, 1016-1030                                  | 3.5  | 38  |
| 165 | Development of a high frequency single-element ultrasound needle transducer for anesthesia delivery <b>2017</b> ,   |      | 2   |
| 164 | Development of prostate specific membrane antigen targeted ultrasound microbubbles using bioorthogonal chemistry. <i>PLoS ONE</i> , <b>2017</b> , 12, e0176958  | 3.7  | 11  |
| 163 | Foxo3 circular RNA promotes cardiac senescence by modulating multiple factors associated with stress and senescence responses. <i>European Heart Journal</i> , <b>2017</b> , 38, 1402-1412                                | 9.5  | 403 |
| 162 | Preparation of biogenic gas vesicle nanostructures for use as contrast agents for ultrasound and MRI. <i>Nature Protocols</i> , <b>2017</b> , 12, 2050-2080   | 18.8 | 64  |
| 161 | High Resolution Ultrasound Superharmonic Perfusion Imaging: In Vivo Feasibility and Quantification of Dynamic Contrast-Enhanced Acoustic Angiography. <i>Annals of Biomedical Engineering</i> , <b>2017</b> , 45, 939-948 | 4.7  | 12  |
| 160 | Assessment of Molecular Acoustic Angiography for Combined Microvascular and Molecular Imaging in Preclinical Tumor Models. <i>Molecular Imaging and Biology</i> , <b>2017</b> , 19, 194-202                               | 3.8  | 16  |
| 159 | More Than Bubbles: Creating Phase-Shift Droplets from Commercially Available Ultrasound Contrast Agents. <i>Ultrasound in Medicine and Biology</i> , <b>2017</b> , 43, 531-540  | 3.5  | 32  |
| 158 | In Vivo Endoluminal Ultrasound Biomicroscopy and Endoscopy of Inflamed Rat Esophagus. <i>Ultrasound in Medicine and Biology</i> , <b>2016</b> , 42, 2687-2696   | 3.5  | 1   |
| 157 | The application of acoustic angiography to assess the progression of angiogenesis in a spontaneous mouse model of breast cancer <b>2016</b> ,   |      | 1   |
| 156 | Preclinical Efficacy of Bevacizumab with CRLX101, an Investigational Nanoparticle-Drug Conjugate, in Treatment of Metastatic Triple-Negative Breast Cancer. <i>Cancer Research</i> , <b>2016</b> , 76, 4493-503           | 10.1 | 43  |
| 155 | Functional Flow Patterns and Static Blood Pooling in Tumors Revealed by Combined Contrast-Enhanced Ultrasound and Photoacoustic Imaging. <i>Cancer Research</i> , <b>2016</b> , 76, 4320-31                               | 10.1 | 32  |
| 154 | Characterization of an intraluminal differential frequency-domain photoacoustics system <b>2016</b> ,   |      | 2   |
| 153 | Molecular Acoustic Angiography: A New Technique for High-resolution Superharmonic Ultrasound Molecular Imaging. <i>Ultrasound in Medicine and Biology</i> , <b>2016</b> , 42, 769-81                                      | 3.5  | 30  |
| 152 | Image-Guided Ultrasound Characterization of Volatile Sub-Micron Phase-Shift Droplets in the 20-40 MHz Frequency Range. <i>Ultrasound in Medicine and Biology</i> , <b>2016</b> , 42, 795-807                              | 3.5  | 22  |
| 151 | Design of a Subtarsal Ultrasonic Transducer for Mild Hyperthermia Treatment of Dry Eye Disease. <i>Ultrasound in Medicine and Biology</i> , <b>2016</b> , 42, 232-42  | 3.5  | 2   |
| 150 | Stable J-aggregation enabled dual photoacoustic and fluorescence nanoparticles for intraoperative cancer imaging. <i>Nanoscale</i> , <b>2016</b> , 8, 12618-25  | 7.7  | 59  |
| 149 | Combined frequency domain photoacoustic and ultrasound imaging for intravascular applications. <i>Biomedical Optics Express</i> , <b>2016</b> , 7, 4441-4449  | 3.5  | 6   |

|     |   |      |     |
|-----|---|------|-----|
| 148 | Co-option of Liver Vessels and Not Sprouting Angiogenesis Drives Acquired Sorafenib Resistance in Hepatocellular Carcinoma. <i>Journal of the National Cancer Institute</i> , <b>2016</b> , 108,  | 9.7  | 105 |
| 147 | Contrast-enhanced molecular ultrasound differentiates endoglin genotypes in mouse embryos. <i>Angiogenesis</i> , <b>2015</b> , 18, 69-81  | 10.6 | 3   |
| 146 | Denosing of Contrast-Enhanced Ultrasound Cine Sequences Based on a Multiplicative Model. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2015</b> , 62, 1969-80   | 5    | 14  |
| 145 | Contrast imaging in mouse embryos using high-frequency ultrasound. <i>Journal of Visualized Experiments</i> , <b>2015</b> ,   | 1.6  | 2   |
| 144 | Quantification of Microvascular Tortuosity during Tumor Evolution Using Acoustic Angiography. <i>Ultrasound in Medicine and Biology</i> , <b>2015</b> , 41, 1896-904  | 3.5  | 75  |
| 143 | Molecular acoustic angiography: Demonstration of in vivo feasibility for high resolution superharmonic ultrasound molecular imaging <b>2015</b> ,   |      | 1   |
| 142 | Subharmonic, non-linear fundamental and ultraharmonic imaging of microbubble contrast at high frequencies. <i>Ultrasound in Medicine and Biology</i> , <b>2015</b> , 41, 486-97   | 3.5  | 21  |
| 141 | Anti-VEGF therapy reduces intestinal inflammation in Endoglin heterozygous mice subjected to experimental colitis. <i>Angiogenesis</i> , <b>2014</b> , 17, 641-59   | 10.6 | 24  |
| 140 | In vivo feasibility study of ultrasound potentiated collagenase therapy of chronic total occlusions. <i>Ultrasonics</i> , <b>2014</b> , 54, 20-4  | 3.5  | 3   |
| 139 | Biogenic gas nanostructures as ultrasonic molecular reporters. <i>Nature Nanotechnology</i> , <b>2014</b> , 9, 311-6  | 28.7 | 169 |
| 138 | Catching Bubbles: Targeting Ultrasound Microbubbles Using Bioorthogonal Inverse-Electron-Demand Diels-Alder Reactions. <i>Angewandte Chemie</i> , <b>2014</b> , 126, 6577-6581  | 3.6  | 2   |
| 137 | Design and fabrication of a low-frequency (1-3 MHz) ultrasound transducer for accurate placement of screw implants in the spine <b>2014</b> ,   |      | 2   |
| 136 | Dual-frequency piezoelectric transducers for contrast enhanced ultrasound imaging. <i>Sensors</i> , <b>2014</b> , 14, 20825-42  | 3.8  | 53  |
| 135 | The implementation of acoustic angiography for microvascular and angiogenesis imaging. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2014</b> , 2014, 4283-5 | 0.9  | 3   |
| 134 | Catching bubbles: targeting ultrasound microbubbles using bioorthogonal inverse-electron-demand Diels-Alder reactions. <i>Angewandte Chemie - International Edition</i> , <b>2014</b> , 53, 6459-63   | 16.4 | 24  |
| 133 | VEGFR2-targeted molecular imaging in the mouse embryo: an alternative to the tumor model. <i>Ultrasound in Medicine and Biology</i> , <b>2014</b> , 40, 389-99  | 3.5  | 12  |
| 132 | Endoglin and activin receptor-like kinase 1 heterozygous mice have a distinct pulmonary and hepatic angiogenic profile and response to anti-VEGF treatment. <i>Angiogenesis</i> , <b>2014</b> , 17, 129-46  | 10.6 | 17  |
| 131 | The use of ultrasound-stimulated contrast agents as an adjuvant for collagenase therapy in chronic total occlusions. <i>EuroIntervention</i> , <b>2014</b> , 10, 484-93   | 3.1  | 2   |

|     |   |     |     |
|-----|---|-----|-----|
| 130 | Hybrid intravascular ultrasound and optical coherence tomography catheter for imaging of coronary atherosclerosis. <i>Catheterization and Cardiovascular Interventions</i> , <b>2013</b> , 81, 494-507  | 2.7 | 52  |
| 129 | The effect of binding on the subharmonic emissions from individual lipid-encapsulated microbubbles at transmit frequencies of 11 and 25 MHz. <i>Ultrasound in Medicine and Biology</i> , <b>2013</b> , 39, 345-59   | 3.5 | 15  |
| 128 | Characterization of submicron phase-change perfluorocarbon droplets for extravascular ultrasound imaging of cancer. <i>Ultrasound in Medicine and Biology</i> , <b>2013</b> , 39, 475-89  | 3.5 | 109 |
| 127 | Development and initial application of a fully integrated photoacoustic micro-ultrasound system. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , <b>2013</b> , 60, 888-97  | 3.2 | 138 |
| 126 | Acoustic angiography: a new imaging modality for assessing microvasculature architecture. <i>International Journal of Biomedical Imaging</i> , <b>2013</b> , 2013, 936593   | 5.2 | 99  |
| 125 | Investigating the subharmonic response of individual phospholipid encapsulated microbubbles at high frequencies: a comparative study of five agents. <i>Ultrasound in Medicine and Biology</i> , <b>2012</b> , 38, 846-635  | 3.5 | 51  |
| 124 | Intracellular growth of nanoscale perfluorocarbon droplets for enhanced ultrasound-induced phase-change conversion. <i>Ultrasound in Medicine and Biology</i> , <b>2012</b> , 38, 1799-810  | 3.5 | 24  |
| 123 | Quantification of blood flow and volume in arterioles and venules of the rat cerebral cortex using functional micro-ultrasound. <i>NeuroImage</i> , <b>2012</b> , 63, 1030-7  | 7.9 | 12  |
| 122 | Optical studies of vaporization and stability of fluorescently labelled perfluorocarbon droplets. <i>Physics in Medicine and Biology</i> , <b>2012</b> , 57, 7205-17  | 3.8 | 43  |
| 121 | Low-dose metronomic oral dosing of a prodrug of gemcitabine (LY2334737) causes antitumor effects in the absence of inhibition of systemic vasculogenesis. <i>Molecular Cancer Therapeutics</i> , <b>2012</b> , 11, 680-9  | 6.1 | 34  |
| 120 | Microultrasound and its application to longitudinal studies of mouse eye development and disease. <i>Cold Spring Harbor Protocols</i> , <b>2012</b> , 2012, 494-503   | 1.2 | 3   |
| 119 | Functional micro-ultrasound imaging of rodent cerebral hemodynamics. <i>NeuroImage</i> , <b>2011</b> , 58, 100-8  | 7.9 | 11  |
| 118 | A new transducer receive transfer function calibration method: application to microbubble backscattering cross-section measurements at high frequency. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , <b>2011</b> , 58, 1159-68 | 3.2 | 1   |
| 117 | The synthesis, magnetic purification and evaluation of <sup>99m</sup> Tc-labeled microbubbles. <i>Nuclear Medicine and Biology</i> , <b>2011</b> , 38, 1111-8   | 2.1 | 12  |
| 116 | Functional micro-ultrasound imaging of rodent cerebral hemodynamics <b>2011</b> ,   |     | 1   |
| 115 | Optical fluorescence studies of perfluorocarbon droplet vaporization <b>2011</b> ,  |     | 2   |
| 114 | Micro-ultrasound for preclinical imaging. <i>Interface Focus</i> , <b>2011</b> , 1, 576-601   | 3.9 | 82  |
| 113 | Femtosecond photoacoustics: integrated two-photon fluorescence and photoacoustic microscopy <b>2010</b> ,   |     | 5   |

|     |   |     |     |
|-----|---|-----|-----|
| 112 | In vivo imaging of cerebral hemodynamics using high-frequency micro-ultrasound. <i>Cold Spring Harbor Protocols</i> , <b>2010</b> , 2010, pdb.prot5495  | 1.2 | 5   |
| 111 | Aortic regurgitation dramatically alters the distribution of atherosclerotic lesions and enhances atherogenesis in mice. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , <b>2010</b> , 30, 1181-8                           | 9.4 | 29  |
| 110 | High-resolution, high-contrast ultrasound imaging using a prototype dual-frequency transducer: in vitro and in vivo studies. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , <b>2010</b> , 57, 1772-81 | 3.2 | 79  |
| 109 | Effect of triangular pillar geometry on high- frequency piezocomposite transducers. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , <b>2010</b> , 57, 957-68   | 3.2 | 8   |
| 108 | Nonlinear emission from individual bound microbubbles at high frequencies. <i>Ultrasound in Medicine and Biology</i> , <b>2010</b> , 36, 313-24   | 3.5 | 22  |
| 107 | Nonlinear contrast imaging with an array-based micro-ultrasound system. <i>Ultrasound in Medicine and Biology</i> , <b>2010</b> , 36, 2097-106  | 3.5 | 88  |
| 106 | High-resolution, high-contrast ultrasound imaging using a prototype dual-frequency transducer in-vitro and in-vivo studies <b>2009</b> ,  |     | 5   |
| 105 | Fabrication and performance of high-frequency composite transducers with triangular-pillar geometry. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , <b>2009</b> , 56, 827-36                          | 3.2 | 17  |
| 104 | Hybrid dual frequency transducer and Scanhead for micro-ultrasound imaging <b>2009</b> ,  |     | 11  |
| 103 | Radiation force-enhanced targeted imaging and near real-time molecular imaging using a dual-frequency high-resolution transducer: In-vitro and in-vivo results <b>2009</b> ,  |     | 2   |
| 102 | Acoustic and kinetic behaviour of definity in mice exposed to high frequency ultrasound. <i>Ultrasound in Medicine and Biology</i> , <b>2009</b> , 35, 296-307  | 3.5 | 22  |
| 101 | A method for differentiating targeted microbubbles in real time using subharmonic micro-ultrasound and interframe filtering. <i>Ultrasound in Medicine and Biology</i> , <b>2009</b> , 35, 1564-73                                      | 3.5 | 39  |
| 100 | A new 15-50 MHz array-based micro-ultrasound scanner for preclinical imaging. <i>Ultrasound in Medicine and Biology</i> , <b>2009</b> , 35, 1700-8  | 3.5 | 132 |
| 99  | Reflection from bound microbubbles at high ultrasound frequencies. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , <b>2009</b> , 56, 536-45  | 3.2 | 11  |
| 98  | Ultrasound Biomicroscopy. <i>Ultrasound Clinics</i> , <b>2008</b> , 3, 185-194  |     | 17  |
| 97  | Innovations in imaging for chronic total occlusions: a glimpse into the future of angiography& blind-spot. <i>European Heart Journal</i> , <b>2008</b> , 29, 583-93   | 9.5 | 40  |
| 96  | Micro-ultrasound takes off (In the biological sciences) <b>2008</b> ,   |     | 8   |
| 95  | Radial modulation imaging of microbubble contrast agents at high frequency. <i>Ultrasound in Medicine and Biology</i> , <b>2008</b> , 34, 949-62  | 3.5 | 22  |

|    |   |      |     |
|----|---|------|-----|
| 94 | High-frequency subharmonic pulsed-wave Doppler and color flow imaging of microbubble contrast agents. <i>Ultrasound in Medicine and Biology</i> , <b>2008</b> , 34, 1139-51   | 3.5  | 25  |
| 93 | Fabrication and performance of a 40-MHz linear array based on a 1-3 composite with geometric elevation focusing. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , <b>2007</b> , 54, 1888-94 | 3.2  | 73  |
| 92 | Microultrasound Molecular Imaging of Vascular Endothelial Growth Factor Receptor 2 in a Mouse Model of Tumor Angiogenesis. <i>Molecular Imaging</i> , <b>2007</b> , 6, 7290.2007.00024                                      | 3.7  | 85  |
| 91 | Interframe clutter filtering for high frequency flow imaging. <i>Ultrasound in Medicine and Biology</i> , <b>2007</b> , 33, 591-600   | 3.5  | 11  |
| 90 | Noninvasive ultrasonic measurement of regional and local pulse-wave velocity in mice. <i>Ultrasound in Medicine and Biology</i> , <b>2007</b> , 33, 1368-75   | 3.5  | 64  |
| 89 | Detecting vascular changes in tumour xenografts using micro-ultrasound and micro-ct following treatment with VEGFR-2 blocking antibodies. <i>Ultrasound in Medicine and Biology</i> , <b>2007</b> , 33, 1259-68             | 3.5  | 34  |
| 88 | Golay pulse encoding for microbubble contrast imaging in ultrasound. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , <b>2007</b> , 54, 2082-90   | 3.2  | 27  |
| 87 | Hemodynamics in the mouse aortic arch as assessed by MRI, ultrasound, and numerical modeling. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>2007</b> , 292, H884-92                         | 5.2  | 82  |
| 86 | Investigation of micro-ultrasound for microvessel imaging in a model of chronic total occlusion. <i>Ultrasonic Imaging</i> , <b>2007</b> , 29, 167-81   | 1.9  | 4   |
| 85 | Microultrasound molecular imaging of vascular endothelial growth factor receptor 2 in a mouse model of tumor angiogenesis. <i>Molecular Imaging</i> , <b>2007</b> , 6, 289-96   | 3.7  | 43  |
| 84 | Targeted anti-vascular endothelial growth factor receptor-2 therapy leads to short-term and long-term impairment of vascular function and increase in tumor hypoxia. <i>Cancer Research</i> , <b>2006</b> , 66, 3639-48     | 10.1 | 140 |
| 83 | Therapy-induced acute recruitment of circulating endothelial progenitor cells to tumors. <i>Science</i> , <b>2006</b> , 313, 1785-7   | 33.3 | 505 |
| 82 | Performance and characterization of new micromachined high-frequency linear arrays. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , <b>2006</b> , 53, 1719-29                              | 3.2  | 52  |
| 81 | Nonlinear ultrasound propagation through layered liquid and tissue-equivalent media: computational and experimental results at high frequency. <i>Physics in Medicine and Biology</i> , <b>2006</b> , 51, 5809-24           | 3.8  | 12  |
| 80 | Transgenic expression of Angiopoietin 1 in the liver leads to changes in lymphatic and blood vessel architecture. <i>Biochemical and Biophysical Research Communications</i> , <b>2006</b> , 345, 1299-307                  | 3.4  | 8   |
| 79 | A model for reflectivity enhancement due to surface bound submicrometer particles. <i>Ultrasound in Medicine and Biology</i> , <b>2006</b> , 32, 1247-55  | 3.5  | 17  |
| 78 | Investigating perfluorohexane particles with high-frequency ultrasound. <i>Ultrasound in Medicine and Biology</i> , <b>2006</b> , 32, 73-82   | 3.5  | 44  |
| 77 | Ultrahigh frame rate retrospective ultrasound microimaging and blood flow visualization in mice in vivo. <i>Ultrasound in Medicine and Biology</i> , <b>2006</b> , 32, 683-91   | 3.5  | 79  |

|    |   |     |     |
|----|---|-----|-----|
| 76 | High frequency nonlinear B-scan imaging of microbubble contrast agents. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , <b>2005</b> , 52, 65-79                                      | 3.2 | 108 |
| 75 | Thermal assessment of 40-MHz pulsed Doppler ultrasound in human eye. <i>Ultrasound in Medicine and Biology</i> , <b>2005</b> , 31, 565-73   | 3.5 | 27  |
| 74 | Three-dimensional ultrasound biomicroscopy for xenograft growth analysis. <i>Ultrasound in Medicine and Biology</i> , <b>2005</b> , 31, 865-70  | 3.5 | 44  |
| 73 | Ultrasonic detection and developmental changes in calcification of the placenta during normal pregnancy in mice. <i>Placenta</i> , <b>2005</b> , 26, 129-37   | 3.4 | 33  |
| 72 | Quantitation of hemodynamic function during developmental vascular regression in the mouse eye. <i>Investigative Ophthalmology and Visual Science</i> , <b>2005</b> , 46, 2231-7                                      |     | 31  |
| 71 | Abnormal cardiac inflow patterns during postnatal development in a mouse model of Holt-Oram syndrome. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>2005</b> , 289, H992-H1001        | 5.2 | 36  |
| 70 | Non-invasive high-frequency vascular ultrasound elastography. <i>Physics in Medicine and Biology</i> , <b>2005</b> , 50, 1611-28  | 3.8 | 69  |
| 69 | In vivo assessment of postnatal murine ocular development by ultrasound biomicroscopy. <i>Current Eye Research</i> , <b>2005</b> , 30, 45-51  | 2.9 | 17  |
| 68 | High-frequency, nonlinear flow imaging of microbubble contrast agents. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , <b>2005</b> , 52, 495-502                                     | 3.2 | 43  |
| 67 | Design and fabrication of ultrafine piezoelectric composites. <i>Ultrasonic Imaging</i> , <b>2005</b> , 27, 54-64   | 1.9 | 7   |
| 66 | Non-Gaussian statistics and temporal variations of the ultrasound signal backscattered by blood at frequencies between 10 and 58 MHz. <i>Journal of the Acoustical Society of America</i> , <b>2004</b> , 116, 566-77 | 2.2 | 41  |
| 65 | Ultrasound-guided left-ventricular catheterization: a novel method of whole mouse perfusion for microimaging. <i>Laboratory Investigation</i> , <b>2004</b> , 84, 385-9   | 5.9 | 43  |
| 64 | Biological effects of high-frequency ultrasound exposure during mouse organogenesis. <i>Ultrasound in Medicine and Biology</i> , <b>2004</b> , 30, 1223-32  | 3.5 | 12  |
| 63 | Effects of aggregation of red cells and linear velocity gradients on the correlation-based method for quantitative IVUS blood flow at 20 MHz. <i>Ultrasound in Medicine and Biology</i> , <b>2004</b> , 30, 205-14    | 3.5 | 2   |
| 62 | Thermal assessment of 40-MHz ultrasound at soft tissue-bone interfaces. <i>Ultrasound in Medicine and Biology</i> , <b>2004</b> , 30, 665-73  | 3.5 | 6   |
| 61 | Developmental changes in integrated ultrasound backscatter from embryonic blood in vivo in mice at high US frequency. <i>Ultrasound in Medicine and Biology</i> , <b>2004</b> , 30, 1307-19                           | 3.5 | 21  |
| 60 | Comprehensive transthoracic cardiac imaging in mice using ultrasound biomicroscopy with anatomical confirmation by magnetic resonance imaging. <i>Physiological Genomics</i> , <b>2004</b> , 18, 232-44               | 3.6 | 109 |
| 59 | Developmental changes in left and right ventricular diastolic filling patterns in mice. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>2003</b> , 285, H1563-75                        | 5.2 | 82  |

|    |   |      |     |
|----|---|------|-----|
| 58 | In vivo imaging of embryonic development in the mouse eye by ultrasound biomicroscopy. <i>Investigative Ophthalmology and Visual Science</i> , <b>2003</b> , 44, 2361-6   |      | 54  |
| 57 | Dynamic measurement of internal solid displacement in articular cartilage using ultrasound backscatter. <i>Journal of Biomechanics</i> , <b>2003</b> , 36, 443-7  | 2.9  | 50  |
| 56 | High-frequency 3-D color-flow imaging of the microcirculation. <i>Ultrasound in Medicine and Biology</i> , <b>2003</b> , 29, 39-51  | 3.5  | 77  |
| 55 | Multifrequency ultrasound transducers for conformal interstitial thermal therapy. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , <b>2003</b> , 50, 881-9                      | 3.2  | 37  |
| 54 | Ultrasound characterization of coronary artery wall in vitro using temperature-dependent wave speed. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , <b>2003</b> , 50, 1474-85 | 3.2  | 13  |
| 53 | Applications for multifrequency ultrasound biomicroscopy in mice from implantation to adulthood. <i>Physiological Genomics</i> , <b>2002</b> , 10, 113-26   | 3.6  | 108 |
| 52 | In vivo ultrasound biomicroscopy in developmental biology. <i>Trends in Biotechnology</i> , <b>2002</b> , 20, S29-S33   | 15.1 | 45  |
| 51 | Experimental characterization of fundamental and second harmonic beams for a high-frequency ultrasound transducer. <i>Ultrasound in Medicine and Biology</i> , <b>2002</b> , 28, 635-46                         | 3.5  | 39  |
| 50 | High-frequency Doppler ultrasound monitors the effects of antivasular therapy on tumor blood flow. <i>Cancer Research</i> , <b>2002</b> , 62, 6371-5  | 10.1 | 103 |
| 49 | In vitro and in vivo comparison of three different intravascular ultrasound catheter designs. <i>Catheterization and Cardiovascular Interventions</i> , <b>2001</b> , 52, 382-92                                | 2.7  | 9   |
| 48 | Interstitial ultrasound heating applicator for MR-guided thermal therapy. <i>Physics in Medicine and Biology</i> , <b>2001</b> , 46, 3133-45  | 3.8  | 38  |
| 47 | Ultrasound for the visualization and quantification of tumor microcirculation. <i>Cancer and Metastasis Reviews</i> , <b>2000</b> , 19, 131-8   | 9.6  | 79  |
| 46 | Feasibility of linear arrays for interstitial ultrasound thermal therapy. <i>Medical Physics</i> , <b>2000</b> , 27, 1281-6   | 4.4  | 25  |
| 45 | Evaluation of tumor angiogenesis with US: imaging, Doppler, and contrast agents. <i>Academic Radiology</i> , <b>2000</b> , 7, 824-39  | 4.3  | 151 |
| 44 | 2D piezoelectric composites with high density and fine scale fabricated by interdigital pair bonding. <i>Applied Physics Letters</i> , <b>1999</b> , 75, 3390-3392  | 3.4  | 7   |
| 43 | Plateau iris syndrome: changes in angle opening associated with dark, light, and pilocarpine administration. <i>American Journal of Ophthalmology</i> , <b>1999</b> , 128, 288-91                               | 4.9  | 61  |
| 42 | Ultrasonic and viscoelastic properties of skin under transverse mechanical stress in vitro. <i>Ultrasound in Medicine and Biology</i> , <b>1998</b> , 24, 995-1007  | 3.5  | 87  |
| 41 | Ultrasound biomicroscopy. High-frequency ultrasound imaging of the eye at microscopic resolution. <i>Radiologic Clinics of North America</i> , <b>1998</b> , 36, 1047-58  | 2.3  | 62  |

|    |   |     |     |
|----|---|-----|-----|
| 40 | Ultrasound biomicroscopic imaging of the anterior aspect of peripheral choroidal melanomas. <i>American Journal of Ophthalmology</i> , <b>1997</b> , 123, 506-14                                | 4.9 | 44  |
| 39 | Supraciliary effusions and ciliary body thickening after scleral buckling procedures. <i>Ophthalmology</i> , <b>1997</b> , 104, 433-8   | 7.3 | 64  |
| 38 | Diagnosis of Traumatic Cyclodialysis by Ultrasound Biomicroscopy. <i>Ophthalmic Surgery Lasers and Imaging Retina</i> , <b>1996</b> , 27, 97-99   | 1.4 | 38  |
| 37 | Accommodation and Iridotomy in the Pigment Dispersion Syndrome. <i>Ophthalmic Surgery Lasers and Imaging Retina</i> , <b>1996</b> , 27, 113-120   | 1.4 | 41  |
| 36 | Ultrasound biomicroscopic imaging of the effects of YAG laser cycloablation in postmortem eyes and living patients. <i>Ophthalmology</i> , <b>1995</b> , 102, 334-41                            | 7.3 | 14  |
| 35 | An Ultrasound Biomicroscopic Dark-Room Provocative Test. <i>Ophthalmic Surgery Lasers and Imaging Retina</i> , <b>1995</b> , 26, 253-255  | 1.4 | 1   |
| 34 | Malignant glaucoma. Clinical and ultrasound biomicroscopic features. <i>Ophthalmology</i> , <b>1994</b> , 101, 1030-57.3  |     | 106 |
| 33 | Posterior iris bowing in pigmentary dispersion syndrome caused by accommodation. <i>American Journal of Ophthalmology</i> , <b>1994</b> , 118, 114-6  | 4.9 | 35  |
| 32 | Correction of phase aberrations for sectored annular array ultrasound transducers. <i>Ultrasound in Medicine and Biology</i> , <b>1993</b> , 19, 763-76   | 3.5 | 7   |
| 31 | Ultrasonic fields of a convex semispherical transducer. <i>Journal of the Acoustical Society of America</i> , <b>1993</b> , 94, 1923-1929   | 2.2 | 5   |
| 30 | An ultrasound biomicroscopic analysis of angle-closure glaucoma secondary to ciliochoroidal effusion in IgA nephropathy. <i>American Journal of Ophthalmology</i> , <b>1993</b> , 116, 341-5    | 4.9 | 48  |
| 29 | Ultrasound biomicroscopy in the assessment of anterior scleral disease. <i>American Journal of Ophthalmology</i> , <b>1993</b> , 116, 628-35  | 4.9 | 42  |
| 28 | High Frequency Ultrasound Scanning of the Arterial Wall. <i>Developments in Cardiovascular Medicine</i> , <b>1993</b> , 91-108  |     | 9   |
| 27 | PLATEAU IRIS SYNDROME: ULTRASOUND BIOMICROSCOPIC AND HISTOLOGIC STUDY. <i>Ophthalmic Surgery Lasers and Imaging Retina</i> , <b>1993</b> , 24, 129-131  | 1.4 | 3   |
| 26 | Ultrasound biomicroscopy in glaucoma. <i>Acta Ophthalmologica</i> , <b>1992</b> , 70, 7-9   | 3.7 | 28  |
| 25 | Simulation of B-scan images from two-dimensional transducer arrays: Part II--Comparisons between linear and two-dimensional phased arrays. <i>Ultrasonic Imaging</i> , <b>1992</b> , 14, 344-53 | 1.9 | 12  |
| 24 | Ultrasound biomicroscopy in plateau iris syndrome. <i>American Journal of Ophthalmology</i> , <b>1992</b> , 113, 390-5.9  | 4.9 | 240 |
| 23 | Ultrasound biomicroscopy of anterior segment structures in normal and glaucomatous eyes. <i>American Journal of Ophthalmology</i> , <b>1992</b> , 113, 381-9                                    | 4.9 | 430 |

|    |   |     |     |
|----|---|-----|-----|
| 22 | Ultrasound biomicroscopy of anterior segment tumors. <i>Ophthalmology</i> , <b>1992</b> , 99, 1220-8  | 7.3 | 159 |
| 21 | Simulation of B-scan images from two-dimensional transducer arrays: Part I [Methods and quantitative contrast measurements. <i>Ultrasonic Imaging</i> , <b>1992</b> , 14, 323-343 | 1.9 | 24  |
| 20 | Clinical use of ultrasound biomicroscopy. <i>Ophthalmology</i> , <b>1991</b> , 98, 287-95   | 7.3 | 572 |
| 19 | Clinical performance of a cone/annular array ultrasound breast scanner. <i>Ultrasound in Medicine and Biology</i> , <b>1990</b> , 16, 361-74                                      | 3.5 | 7   |
| 18 | Subsurface ultrasound microscopic imaging of the intact eye. <i>Ophthalmology</i> , <b>1990</b> , 97, 244-50  | 7.3 | 343 |
| 17 | The design and fabrication of high frequency poly(vinylidene fluoride) transducers. <i>Ultrasonic Imaging</i> , <b>1989</b> , 11, 75-94   | 1.9 | 73  |
| 16 | Ultrasonic characterization of selected renal tissues. <i>Ultrasound in Medicine and Biology</i> , <b>1989</b> , 15, 241-53   | 3.5 | 25  |
| 15 | Quantitative contrast measurements in B-mode images comparison between experiment and theory. <i>Ultrasound in Medicine and Biology</i> , <b>1986</b> , 12, 197-208               | 3.5 | 23  |
| 14 | Frequency dependence of ultrasound attenuation and backscatter in breast tissue. <i>Ultrasound in Medicine and Biology</i> , <b>1986</b> , 12, 795-808                            | 3.5 | 192 |
| 13 | Artifactual echoes in B-mode images due to multiple scattering. <i>Ultrasound in Medicine and Biology</i> , <b>1985</b> , 11, 99-111  | 3.5 | 13  |
| 12 | Breast imaging with a conical transducer/annular array hybrid scanner. <i>Ultrasound in Medicine and Biology</i> , <b>1983</b> , 9, 151-64  | 3.5 | 13  |
| 11 | The improvement and quantitative assessment of B-mode images produced by an annular array/cone hybrid. <i>Ultrasonic Imaging</i> , <b>1983</b> , 5, 195-213                       | 1.9 | 70  |
| 10 | Computer simulations of speckle in B-scan images. <i>Ultrasonic Imaging</i> , <b>1983</b> , 5, 308-30   | 1.9 | 66  |
| 9  | Ultrasound transducers for pulse-echo medical imaging. <i>IEEE Transactions on Biomedical Engineering</i> , <b>1983</b> , 30, 453-81  | 5   | 149 |
| 8  | An annular array system for high resolution breast echography. <i>Ultrasonic Imaging</i> , <b>1982</b> , 4, 1-31  | 1.9 | 33  |
| 7  | Acoustic Fields of Conical Radiators. <i>IEEE Transactions on Sonics and Ultrasonics</i> , <b>1982</b> , 29, 83-91  |     | 38  |
| 6  | Transient fields of concave annular arrays. <i>Ultrasonic Imaging</i> , <b>1981</b> , 3, 37-61  | 1.9 | 131 |
| 5  | Cylindrical transducer scatter scanner. <i>Journal of the Acoustical Society of America</i> , <b>1980</b> , 68, 85-92   | 2.2 | 11  |

- 4 Transmission of ultrasound beams through human tissue--focusing and attenuation studies. *Ultrasound in Medicine and Biology*, **1979**, 5, 257-68 3.5 69
- 3 The design and characterization of short pulse ultrasound transducers. *Ultrasonics*, **1978**, 16, 116-122 3.5 31
- 2 Imaging of Heart, Muscle, Vessels 257-275
- 1 High Frequency Ultrasound for the Visualization and Quantification of the Microcirculation 293-312 0