

Koping Kirk Shung

List of Publications by Year in descending order

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178
papers

4,955
citations

81743

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h-index

110170

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all docs

187
docs citations

187
times ranked

4706
citing authors

#	ARTICLE	IF	CITATIONS
1	Super-Resolution Ultrasound Localization Microscopy for Visualization of the Ocular Blood Flow. IEEE Transactions on Biomedical Engineering, 2022, 69, 1585-1594.	2.5	14
2	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
3	Noninvasive Ultrasound Retinal Stimulation for Vision Restoration at High Spatiotemporal Resolution. BME Frontiers, 2022, 2022, .	2.2	17
4	Automated estimation of cancer cell deformability with machine learning and acoustic trapping. Scientific Reports, 2022, 12, 6891.	1.6	3
5	Recent Advancements in Ultrasound Transducer: From Material Strategies to Biomedical Applications. BME Frontiers, 2022, 2022, .	2.2	37
6	High-Frequency Ultrasound Elastography to Assess the Nonlinear Elastic Properties of the Cornea and Ciliary Body. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2022, 69, 2621-2629.	1.7	15
7	Ultrasonic elastography to assess biomechanical properties of the optic nerve head and peripapillary sclera of the eye. Ultrasonics, 2021, 110, 106263.	2.1	25
8	2-D Ultrasonic Array-Based Optical Coherence Elastography. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2021, 68, 1096-1104.	1.7	11
9	Prospective assessment of breast cancer risk from multimodal multiview ultrasound images via clinically applicable deep learning. Nature Biomedical Engineering, 2021, 5, 522-532.	11.6	109
10	Layer-specific ultrasound elastography using a multi-layered shear wave dispersion model for assessing the viscoelastic properties. Physics in Medicine and Biology, 2021, 66, 035003.	1.6	2
11	A One-Sided Acoustic Trap for Cell Immobilization Using 30-MHz Array Transducer. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2020, 67, 167-172.	1.7	14
12	Integrin Antibody Decreases Deformability of Patient-Derived Pre-B Acute Lymphocytic Leukemia Cells as Measured by High-Frequency Acoustic Tweezers. Journal of Ultrasound in Medicine, 2020, 39, 589-595.	0.8	5
13	Investigation of Ultrasound-Mediated Intracellular Ca ²⁺ Oscillations in HIT-T15 Pancreatic β^2 -Cell Line. Cells, 2020, 9, 1129.	1.8	7
14	Classification of Breast Cancer Cells Using the Integration of High-Frequency Single-Beam Acoustic Tweezers and Convolutional Neural Networks. Cancers, 2020, 12, 1212.	1.7	12
15	Investigation of cell mechanics using single-beam acoustic tweezers as a versatile tool for the diagnosis and treatment of highly invasive breast cancer cell lines: an in vitro study. Microsystems and Nanoengineering, 2020, 6, 39.	3.4	20
16	Characterizing the Motility of Chemotherapeutics-Treated Acute Lymphoblastic Leukemia Cells by Time-Lapse Imaging. Cells, 2020, 9, 1470.	1.8	0
17	Focused Ultrasound Stimulates ER Localized Mechanosensitive PANXIN-1 to Mediate Intracellular Calcium Release in Invasive Cancer Cells. Frontiers in Cell and Developmental Biology, 2020, 8, 504.	1.8	20
18	<i>In Vivo</i> Visualization of Eye Vasculature Using Super-Resolution Ultrasound Microvessel Imaging. IEEE Transactions on Biomedical Engineering, 2020, 67, 2870-2880.	2.5	23

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19	A combined ultrasonic B-mode and color Doppler system for the classification of breast masses using neural network. <i>European Radiology</i> , 2020, 30, 3023-3033.	2.3	18
20	Ultrasonic Microelastography to Assess Biomechanical Properties of the Cornea. <i>IEEE Transactions on Biomedical Engineering</i> , 2019, 66, 647-655.	2.5	34
21	Biomedical Applications: Ultrasound-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
22	Ultrasound-Induced Wireless Energy Harvesting for Potential Retinal Electrical Stimulation Application. <i>Advanced Functional Materials</i> , 2019, 29, 1902522.	7.8	56
23	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
24	Helical-Like 3D Ultrathin Piezoelectric Element for Complicated Ultrasonic Field. <i>Advanced Functional Materials</i> , 2019, 29, 1902912.	7.8	15
25	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
26	Development of Hydrostatic Annular Ultrasounds Transducers for Intravascular Sonoelastographic Shear Velocity Imaging. , 2019, , .		3
27	Monitoring of Adult Zebrafish Heart Regeneration Using High-Frequency Ultrasound Spectral Doppler and Nakagami Imaging. <i>Sensors</i> , 2019, 19, 4094.	2.1	12
28	Flexible piezoelectric ultrasonic energy harvester array for bio-implantable wireless generator. <i>Nano Energy</i> , 2019, 56, 216-224.	8.2	105
29	Eco-Friendly Highly Sensitive Transducers Based on a New KNN-NTK-PM Lead-Free Piezoelectric Ceramic for High-Frequency Biomedical Ultrasonic Imaging Applications. <i>IEEE Transactions on Biomedical Engineering</i> , 2019, 66, 1580-1587.	2.5	51
30	Mechanogenetics for the remote and noninvasive control of cancer immunotherapy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 992-997.	3.3	181
31	Investigation of Optimized Treatment Conditions for Acoustic-Transfection Technique for Intracellular Delivery of Macromolecules. <i>Ultrasound in Medicine and Biology</i> , 2018, 44, 622-634.	0.7	10
32	Low-Intensity Ultrasound Modulates Ca ²⁺ Dynamics in Human Mesenchymal Stem Cells via Connexin 43 Hemichannel. <i>Annals of Biomedical Engineering</i> , 2018, 46, 48-59.	1.3	22
33	High-Resolution Shear Wave Imaging of the Human Cornea Using a Dual-Element Transducer. <i>Sensors</i> , 2018, 18, 4244.	2.1	26
34	Development of a KNN Ceramic-Based Lead-Free Linear Array Ultrasonic Transducer. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2018, 65, 2113-2120.	1.7	29
35	Characterizing Deformability of Drug Resistant Patient-Derived Acute Lymphoblastic Leukemia (ALL) Cells Using Acoustic Tweezers. <i>Scientific Reports</i> , 2018, 8, 15708.	1.6	16
36	CMOS High-Voltage Analog 1-64 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

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37	Development of an intravascular ultrasound elastography based on a dual-element transducer. Royal Society Open Science, 2018, 5, 180138.	1.1	23
38	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
39	A Dual-Modality Hybrid Imaging System Harnesses Radioluminescence and Sound to Reveal Molecular Pathology of Atherosclerotic Plaques. Scientific Reports, 2018, 8, 8992.	1.6	8
40	Single-Beam Acoustic Trapping of Red Blood Cells and Polystyrene Microspheres in Flowing Red Blood Cell Saline and Plasma Suspensions. Ultrasound in Medicine and Biology, 2017, 43, 852-859.	0.7	17
41	Biomimetic Anisotropic Reinforcement Architectures by Electrically Assisted Nanocomposite 3D Printing. Advanced Materials, 2017, 29, 1605750.	11.1	212
42	Quantification of Inter-Erythrocyte Forces with Ultra-High Frequency (410MHz) Single Beam Acoustic Tweezer. Annals of Biomedical Engineering, 2017, 45, 2174-2183.	1.3	28
43	Biomimetics: Biomimetic Anisotropic Reinforcement Architectures by Electrically Assisted Nanocomposite 3D Printing (Adv. Mater. 11/2017). Advanced Materials, 2017, 29, .	11.1	2
44	Self-Focused AlScN Film Ultrasound Transducer for Individual Cell Manipulation. ACS Sensors, 2017, 2, 172-177.	4.0	54
45	Acoustic-transfection for genomic manipulation of single-cells using high frequency ultrasound. Scientific Reports, 2017, 7, 5275.	1.6	40
46	Label-free analysis of the characteristics of a single cell trapped by acoustic tweezers. Scientific Reports, 2017, 7, 14092.	1.6	26
47	Label-free automated three-dimensional imaging of whole organs by microtomy-assisted photoacoustic microscopy. Nature Communications, 2017, 8, 1386.	5.8	104
48	Multi-functional Ultrasonic Micro-elastography Imaging System. Scientific Reports, 2017, 7, 1230.	1.6	40
49	An adjustable multi-scale single beam acoustic tweezers based on ultrahigh frequency ultrasonic transducer. Biotechnology and Bioengineering, 2017, 114, 2637-2647.	1.7	23
50	Discrimination of minimal residual disease in acute lymphoblastic leukemia by using single-beam acoustic tweezer. , 2017, , .		0
51	Discrimination of minimal residual disease in acute lymphoblastic leukemia by using single-beam acoustic tweezer. , 2017, , .		0
52	Notice of Removal: Multi-focused acoustic holograms by 3D printing. , 2017, , .		0
53	High frequency single crystal ultrasonic transducers up to 100 MHz for high resolution ophthalmic imaging applications. , 2017, , .		2
54	KNN-based single crystal high frequency transducer for intravascular photoacoustic imaging. , 2017, , .		1

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55	KNN-based single crystal high frequency transducer for intravascular photoacoustic imaging. , 2017, , .		0
56	Correlation of IOP with Corneal Acoustic Impedance in Porcine Eye Model. BioMed Research International, 2017, 2017, 1-6.	0.9	2
57	Notice of Removal: Intravascular Ultrasound (IVUS) imaging reaching 100 MHz. , 2017, , .		1
58	Notice of Removal: Acoustic-transfection for gene editing using high frequency ultrasound. , 2017, , .		0
59	Notice of Removal: Virtual source synthetic aperture focusing and coherence factor weighting for intravascular ultrasound (IVUS). , 2017, , .		1
60	Notice of Removal: Assessment of corneal biomechanical properties using the ultrasonic micro-elastography. , 2017, , .		0
61	Notice of Removal: Quantitative assessment of plate-like tissue viscoelastic properties using ultrasonic micro-elastography with lamb wave model. , 2017, , .		0
62	Cross-Sectional Nakagami Images in Passive Stretches Reveal Damage of Injured Muscles. BioMed Research International, 2016, 2016, 1-11.	0.9	2
63	Contactless microparticle control via ultrahigh frequency needle type single beam acoustic tweezers. Applied Physics Letters, 2016, 109, 173509.	1.5	29
64	Ultrahigh Frequency (100â€™%MHzâ€“300â€™%MHz) Ultrasonic Transducers for Optical Resolution Medical Imaging. Scientific Reports, 2016, 6, 28360.	1.6	73
65	Direct and sustained intracellular delivery of exogenous molecules using acoustic-transfection with high frequency ultrasound. Scientific Reports, 2016, 6, 20477.	1.6	44
66	Multifunctional single beam acoustic tweezer for non-invasive cell/organism manipulation and tissue imaging. Scientific Reports, 2016, 6, 37554.	1.6	58
67	Cell Deformation by Single-beam Acoustic Trapping: A Promising Tool for Measurements of Cell Mechanics. Scientific Reports, 2016, 6, 27238.	1.6	59
68	Ultrasound-aided Multi-parametric Photoacoustic Microscopy of the Mouse Brain. Scientific Reports, 2016, 5, 18775.	1.6	78
69	Micro-particle manipulation by single beam acoustic tweezers based on hydrothermal PZT thick film. AIP Advances, 2016, 6, 035102.	0.6	28
70	Acoustic Radiation Force Optical Coherence Elastography of Corneal Tissue. IEEE Journal of Selected Topics in Quantum Electronics, 2016, 22, 288-294.	1.9	58
71	Three dimensional printing of high dielectric capacitor using projection based stereolithography method. Nano Energy, 2016, 22, 414-421.	8.2	138
72	A Review of Intravascular Ultrasound-based Multimodal Intravascular Imaging. Ultrasonic Imaging, 2016, 38, 314-331.	1.4	44

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73	Impedance matching network for high frequency ultrasonic transducer for cellular applications. Ultrasonics, 2016, 65, 258-267.	2.1	40
74	A Novel Ultrasound Technique for Non-Invasive Assessment of Cell Differentiation. IEEE Sensors Journal, 2016, 16, 61-68.	2.4	7
75	High speed intravascular photoacoustic imaging with fast optical parametric oscillator laser at 1.7 μ m. Applied Physics Letters, 2015, 107, 083701.	1.5	57
76	Design of matching layers for high-frequency ultrasonic transducers. Applied Physics Letters, 2015, 107, 123505.	1.5	47
77	(100)-Textured KNN-based thick film with enhanced piezoelectric property for intravascular ultrasound imaging. Applied Physics Letters, 2015, 106, 173504.	1.5	47
78	A sidelobe suppressing near-field beamforming approach for ultrasound array imaging. Journal of the Acoustical Society of America, 2015, 137, 2785-2790.	0.5	24
79	Dual-element needle transducer for intravascular ultrasound imaging. Journal of Medical Imaging, 2015, 2, 027001.	0.8	23
80	Recent advances in developing biomedical applications of single beam acoustic tweezers. , 2015, , .		0
81	High-frequency ultrasound imaging for breast cancer biopsy guidance. Journal of Medical Imaging, 2015, 2, 047001.	0.8	2
82	Non-coding RNAs derived from an alternatively spliced REST transcript (REST-003) regulate breast cancer invasiveness. Scientific Reports, 2015, 5, 11207.	1.6	26
83	Angled-focused 45MHz PMN-PT single element transducer for intravascular ultrasound imaging. Sensors and Actuators A: Physical, 2015, 228, 16-22.	2.0	31
84	High-frequency dual mode pulsed wave Doppler imaging for monitoring the functional regeneration of adult zebrafish hearts. Journal of the Royal Society Interface, 2015, 12, 20141154.	1.5	16
85	Non-contact acoustic radiation force impulse microscopy via photoacoustic detection for probing breast cancer cell mechanics. Biomedical Optics Express, 2015, 6, 11.	1.5	9
86	Optical-resolution photoacoustic endomicroscopy in vivo. Biomedical Optics Express, 2015, 6, 918.	1.5	73
87	Acoustic tweezers for studying intracellular calcium signaling in SKBR-3 human breast cancer cells. Ultrasonics, 2015, 63, 94-101.	2.1	33
88	Power Amplifier Linearizer for High Frequency Medical Ultrasound Applications. Journal of Medical and Biological Engineering, 2015, 35, 226-235.	1.0	12
89	Three-Dimensional Photoacoustic Endoscopic Imaging of the Rabbit Esophagus. PLoS ONE, 2015, 10, e0120269.	1.1	43
90	High-resolution harmonic motion imaging (HR-HMI) for tissue biomechanical property characterization. Quantitative Imaging in Medicine and Surgery, 2015, 5, 108-17.	1.1	8

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91	Power MOSFET-“Diode”-Based Limiter for High-Frequency Ultrasound Systems. <i>Ultrasonic Imaging</i> , 2014, 36, 317-330.	1.4	5
92	Fabrication and characterization of a 20 MHz microlinear phased array transducer for intervention guidance. , 2014, , .		3
93	A configurable dual-frequency transmit/receive system for acoustic angiography imaging. , 2014, , .		5
94	Non-contact multi-particle annular patterning and manipulation with ultrasound microbeam. <i>Applied Physics Letters</i> , 2014, 104, 244107.	1.5	11
95	Confocal acoustic radiation force optical coherence elastography using a ring ultrasonic transducer. <i>Applied Physics Letters</i> , 2014, 104, 123702.	1.5	39
96	A feasibility study of <i>in vivo</i> applications of single beam acoustic tweezers. <i>Applied Physics Letters</i> , 2014, 105, 173701.	1.5	41
97	Spectroscopic intravascular photoacoustic imaging of lipids in atherosclerosis. <i>Journal of Biomedical Optics</i> , 2014, 19, 026006.	1.4	63
98	Systematic study of high-frequency ultrasonic transducer design for laser-scanning photoacoustic ophthalmoscopy. <i>Journal of Biomedical Optics</i> , 2014, 19, 016015.	1.4	20
99	Multi-particle trapping and manipulation by a high-frequency array transducer. <i>Applied Physics Letters</i> , 2014, 105, 214103.	1.5	33
100	Integrated IVUS-OCT Imaging for Atherosclerotic Plaque Characterization. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2014, 20, 196-203.	1.9	53
101	Bipolar-power-transistor-based limiter for high frequency ultrasound imaging systems. <i>Ultrasonics</i> , 2014, 54, 754-758.	2.1	9
102	PMN-PT single-crystal high-frequency kerfless phased array. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2014, 61, 1033-1041.	1.7	36
103	Non-contact High-Frequency Ultrasound Microbeam Stimulation for Studying Mechanotransduction in Human Umbilical Vein Endothelial Cells. <i>Ultrasound in Medicine and Biology</i> , 2014, 40, 2172-2182.	0.7	32
104	Urogenital photoacoustic endoscope. <i>Optics Letters</i> , 2014, 39, 1473.	1.7	38
105	Cell membrane deformation induced by a fibronectin-coated polystyrene microbead in a 200-MHz acoustic trap. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2014, 61, 399-406.	1.7	29
106	Piezoelectric single crystal ultrasonic transducers for biomedical applications. <i>Progress in Materials Science</i> , 2014, 66, 87-111.	16.0	299
107	High-speed Intravascular Photoacoustic Imaging of Lipid-laden Atherosclerotic Plaque Enabled by a 2-kHz Barium Nitrite Raman Laser. <i>Scientific Reports</i> , 2014, 4, 6889.	1.6	107
108	Entropic Imaging of Cataract Lens: An In Vitro Study. <i>PLoS ONE</i> , 2014, 9, e96195.	1.1	18

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109	Ultrasonic Synthetic Aperture Focusing Technique With Finite Source Element for Focused Transducers. Journal of Testing and Evaluation, 2014, 42, 842-850.	0.4	1
110	Lead-free BNT composite film for high-frequency broadband ultrasonic transducer applications. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2013, 60, 1533-1537.	1.7	31
111	Distribution and deposition of organic fouling on the microfiltration membrane evaluated by high-frequency ultrasound. Journal of Membrane Science, 2013, 433, 100-111.	4.1	12
112	Correspondence: Lead-free intravascular ultrasound transducer using BZT-50BCT ceramics. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2013, 60, 1272-1276.	1.7	53
113	Zebrafish egg manipulation using ultrasound microbeam. , 2013, , .		1
114	Resonant acoustic radiation force optical coherence elastography. Applied Physics Letters, 2013, 103, 103704.	1.5	56
115	High-Resolution Acoustic-Radiation-Force-Impulse Imaging for Assessing Corneal Sclerosis. IEEE Transactions on Medical Imaging, 2013, 32, 1316-1324.	5.4	47
116	Real-time co-registered IVUS-OCT catheter for atherosclerotic plaque identification. , 2013, , .		2
117	Wideband portable power amplifier design for very high frequency ultrasonic transducer applications. , 2013, , .		1
118	Bipolar pulse generator for very high frequency (> 100 MHz) ultrasound applications. , 2013, , .		2
119	10.1063/1.4793654.1. , 2013, , .		0
120	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
121	A flexible annular array imaging platform for micro-ultrasound. , 2012, , .		0
122	Ultrahigh frequency ultrasound microbeam for biomedical applications. , 2012, , .		1
123	An open system for intravascular ultrasound imaging. , 2012, , .		4
124	Dual-frequency acoustic cavitation for noninvasively breaking down a cataractous lens. , 2012, , .		0
125	Micro defect detection on silicon carbide mirror with high frequency ultrasound array scanning. , 2012, , .		1
126	Coded excitation technique for real-time simultaneous HIFU therapy and imaging. , 2012, , .		0

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127	Integrated IVUS-OCT catheter for in vivo intravascular imaging. , 2012, , .		1
128	Ultrasonic stimulation of single bovine aortic endothelial cells at 1GHz. , 2012, , .		0
129	New MOSFET-based expander for high frequency ultrasound systems. , 2012, , .		6
130	Acoustic particle trapping in a microfluidic device using frequency modulated signal. , 2011, , .		0
131	High frequency, high frame rate pulse inversion chirp coded tissue harmonic imaging. , 2011, , .		1
132	Novel limiter using bipolar power transistors for high frequency ultrasonic transducer applications. , 2011, , .		4
133	Extended necrosis by using dual-curved therapeutic transducer for noninvasive HIFU surgery. , 2011, , .		0
134	A high-frequency linear ultrasonic array utilizing an interdigitally bonded 2-2 piezo-composite. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2011, 58, 2202-2212.	1.7	40
135	Enhanced Structures and Electrical Properties of Lead-free $K_{0.5}Na_{0.5}NbO_3 \cdot Bi_{0.5}Na_{0.5}TiO_3 \cdot 1.9O_3$ Composite Ferroelectric Thick Films. Journal of the American Ceramic Society, 2011, 94, 3425-3430.		8
136	Piezoelectric films for high frequency ultrasonic transducers in biomedical applications. Progress in Materials Science, 2011, 56, 139-174.	16.0	275
137	80 MHz Intravascular Ultrasound (IVUS) transducer. , 2011, , .		1
138	Intravascular ultrasound chirp imaging. , 2011, , .		0
139	Real time acoustic sensing of flowing microdroplets in a microfluidic device. , 2011, , .		0
140	Two-dimensional cell trapping by ultrasound microbeam. , 2011, , .		1
141	High Frequency PMN-PT 1-3 Composite Transducer for Ultrasonic Imaging Application. Ferroelectrics, 2010, 408, 120-128.	0.3	51
142	Optimal suppression of therapeutic interference for real-time therapy and imaging with an integrated HIFU/imaging transducer. , 2010, , .		1
143	High-resolution co-registered intravascular imaging with integrated high frequency ultrasound and OCT probe. , 2010, , .		0
144	Design of a 64 channel analog receive beamformer for high frequency linear arrays. , 2010, , .		3

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145	Development of integrated preamplifier for high frequency ultrasonic transducer. , 2010, , .		5
146	High frequency ultrasonic transducer with KNN/BNT O–3 composite active element. , 2010, , .		4
147	Development of a digital high frequency ultrasound array imaging system. , 2010, , .		3
148	Cardiac parameters analysis for zebrafish heart regeneration based on high frequency ultrasound imaging. , 2010, , .		1
149	A 40 MHz high frequency ultrasound embedded epidural needle for assisting epidural access in pig study. , 2010, , .		0
150	Single microparticle manipulation by an ultrasound microbeam. , 2010, , .		6
151	Characterization and evaluation of high frequency convex array transducers. , 2010, , .		4
152	A high-frequency, high frame rate duplex ultrasound linear array imaging system for small animal imaging. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2010, 57, 1548-1557.	1.7	37
153	Calibration of acoustic trapping forces by fluid drag forces. , 2009, , .		0
154	Fabrication of 20 MHz convex array transducers for high frequency ophthalmic imaging. , 2009, , .		10
155	DESIGN AND FABRICATION OF HIGH-INTENSITY FOCUSED ULTRASOUND PHASED ARRAY FOR LIVER TUMOR THERAPY. Biomedical Engineering - Applications, Basis and Communications, 2009, 21, 187-192.	0.3	3
156	A family of intracardiac ultrasound imaging devices designed for guidance of electrophysiology ablation procedures. , 2009, 2009, 1913-7.		4
157	Non-Rigid Ultrasound Image Registration Based on Intensity and Local Phase Information. Journal of Signal Processing Systems, 2009, 54, 33-43.	1.4	26
158	High frequency ultrasound: A new frontier for ultrasound. , 2009, 2009, 1953-5.		19
159	Real-time simultaneous therapy and imaging for noninvasive HIFU surgery of prostate tissue. , 2009, , .		2
160	In situ measurements of attenuation coefficient for evaluating the hardness of cataract lens by a high frequency ultrasonic needle transducer. , 2009, , .		0
161	Development of high frequency annular array ultrasound transducers using interdigital bonded composites. , 2009, , .		1
162	High Frequency Ultrasonic Imaging. Journal of Medical Ultrasound, 2009, 17, 25-30.	0.2	126

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163	10.1063/1.3206910.1., 2009, , .		4
164	In Vivo Cardiac Imaging of Adult Zebrafish Using High Frequency Ultrasound (45-75 MHz). Ultrasound in Medicine and Biology, 2008, 34, 31-39.	0.7	103
165	Development of high frequency linear arrays using interdigital bonded composites. , 2008, , .		5
166	Novel biomedical imaging that combines intravascular ultrasound (IVUS) and optical coherence tomography (OCT). , 2008, , .		1
167	Ultrasonic Doppler measurements of blood flow velocity of rabbit retinal vessels with high-frequency angled needle transducer. , 2008, , .		0
168	Improved high-frequency high frame rate duplex ultrasound linear array imaging system. , 2008, , .		3
169	A novel scan method using angled high frequency single element needle transducers. , 2008, , .		0
170	Design of a 64-channel Digital High Frequency linear array ultrasound imaging beamformer on a Massively Parallel Processor Array. , 2008, , .		5
171	Longitudinal study of adult zebrafish heart regeneration using high frequency echocardiography. , 2008, , .		0
172	Development of 1.5D cylindrical HIFU phased array. , 2008, , .		0
173	Development of a 35-MHz piezo-composite ultrasound array for medical imaging. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2006, 53, 224-236.	1.7	208
174	Effect of ultrasonic attenuation on the feasibility of acoustic tweezers. Ultrasound in Medicine and Biology, 2006, 32, 1575-1583.	0.7	43
175	Dielectric relaxation behavior of BaTiO ₃ /SrTiO ₃ composites. Journal of Materials Science, 2005, 40, 1509-1511.	1.7	2
176	A theoretical study of the feasibility of acoustical tweezers: Ray acoustics approach. Journal of the Acoustical Society of America, 2005, 117, 3273-3280.	0.5	112
177	Fabrication of focused poly(vinylidene fluoride-trifluoroethylene) P(VDF-TrFE) copolymer 40-50 MHz ultrasound transducers on curved surfaces. Journal of Applied Physics, 2004, 96, 252-256.	1.1	51
178	PMN-PT high frequency ultrasonic needle transducers for pulsed wave Doppler in the eye. , 0, , .		1