Koping Kirk Shung

List of Publications by Year
in descending order

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178 papers	4,955 citations	81900 39 h-index	106344 65 g-index

187 all docs	187 docs citations	187 times ranked	4706 citing authors

#	Article	IF	Citations
1	Piezoelectric single crystal ultrasonic transducers for biomedical applications. Progress in Materials Science, 2014, 66, 87-111.	32.8	299
2	Piezoelectric films for high frequency ultrasonic transducers in biomedical applications. Progress in Materials Science, 2011, 56, 139-174.	32.8	275
3	Biomimetic Anisotropic Reinforcement Architectures by Electrically Assisted Nanocomposite 3D Printing. Advanced Materials, 2017, 29, 1605750.	21.0	212
4	Development of a 35-MHz piezo-composite ultrasound array for medical imaging. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2006, 53, 224-236.	3.0	208
5	Mechanogenetics for the remote and noninvasive control of cancer immunotherapy. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 992-997.	7.1	181
6	Three dimensional printing of high dielectric capacitor using projection based stereolithography method. Nano Energy, 2016, 22, 414-421.	16.0	138
7	High Frequency Ultrasonic Imaging. Journal of Medical Ultrasound, 2009, 17, 25-30.	0.4	126
8	A theoretical study of the feasibility of acoustical tweezers: Ray acoustics approach. Journal of the Acoustical Society of America, 2005, 117, 3273-3280.	1.1	112
9	Prospective assessment of breast cancer risk from multimodal multiview ultrasound images via clinically applicable deep learning. Nature Biomedical Engineering, 2021, 5, 522-532.	22.5	109
10	High-speed Intravascular Photoacoustic Imaging of Lipid-laden Atherosclerotic Plaque Enabled by a 2-kHz Barium Nitrite Raman Laser. Scientific Reports, 2014, 4, 6889.	3.3	107
11	Flexible piezoelectric ultrasonic energy harvester array for bio-implantable wireless generator. Nano Energy, 2019, 56, 216-224.	16.0	105
12	Label-free automated three-dimensional imaging of whole organs by microtomy-assisted photoacoustic microscopy. Nature Communications, 2017, 8, 1386.	12.8	104
13	In Vivo Cardiac Imaging of Adult Zebrafish Using High Frequency Ultrasound (45-75 MHz). Ultrasound in Medicine and Biology, 2008, 34, 31-39.	1.5	103
14	Ultrasound-aided Multi-parametric Photoacoustic Microscopy of the Mouse Brain. Scientific Reports, 2016, 5, 18775.	3.3	78
15	Optical-resolution photoacoustic endomicroscopy in vivo. Biomedical Optics Express, 2015, 6, 918.	2.9	73
16	Ultrahigh Frequency (100â€‰MHzâ€“300â€‰MHz) Ultrasonic Transducers for Optical Resolution Medical Imagining. Scientific Reports, 2016, 6, 28360.	3.3	73
17	Spectroscopic intravascular photoacoustic imaging of lipids in atherosclerosis. Journal of Biomedical Optics, 2014, 19, 026006.	2.6	63
18	Cell Deformation by Single-beam Acoustic Trapping: A Promising Tool for Measurements of Cell Mechanics. Scientific Reports, 2016, 6, 27238.	3.3	59

#	Article	IF	Citations
19	Multifunctional single beam acoustic tweezer for non-invasive cell/organism manipulation and tissue imaging. Scientific Reports, 2016, 6, 37554.	3.3	58
20	Acoustic Radiation Force Optical Coherence Elastography of Corneal Tissue. IEEE Journal of Selected Topics in Quantum Electronics, 2016, 22, 288-294.	2.9	58
21	High speed intravascular photoacoustic imaging with fast optical parametric oscillator laser at 1.7â€‰Î¼m. Applied Physics Letters, 2015, 107, 083701.	3.3	57
22	Resonant acoustic radiation force optical coherence elastography. Applied Physics Letters, 2013, 103, 103704.	3.3	56
23	Ultrasoundâ€induced Wireless Energy Harvesting for Potential Retinal Electrical Stimulation Application. Advanced Functional Materials, 2019, 29, 1902522.	14.9	56
24	Self-Focused AlScN Film Ultrasound Transducer for Individual Cell Manipulation. ACS Sensors, 2017, 2, 172-177.	7.8	54
25	Correspondence: Lead-free intravascular ultrasound transducer using BZT-50BCT ceramics. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2013, 60, 1272-1276.	3.0	53
26	Integrated IVUS-OCT Imaging for Atherosclerotic Plaque Characterization. IEEE Journal of Selected Topics in Quantum Electronics, 2014, 20, 196-203.	2.9	53
27	Fabrication of focused poly(vinylidene fluoride-trifluoroethylene) P(VDF-TrFE) copolymer 40â€“50 MHz ultrasound transducers on curved surfaces. Journal of Applied Physics, 2004, 96, 252-256.	2.5	51
28	High Frequency PMN-PT 1-3 Composite Transducer for Ultrasonic Imaging Application. Ferroelectrics, 2010, 408, 120-128.	0.6	51
29	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.	4.2	51
30	High-Resolution Acoustic-Radiation-Force-Impulse Imaging for Assessing Corneal Sclerosis. IEEE Transactions on Medical Imaging, 2013, 32, 1316-1324.	8.9	47
31	Design of matching layers for high-frequency ultrasonic transducers. Applied Physics Letters, 2015, 107, 123505.	3.3	47
32	(100)-Textured KNN-based thick film with enhanced piezoelectric property for intravascular ultrasound imaging. Applied Physics Letters, 2015, 106, 173504.	3.3	47
33	Direct and sustained intracellular delivery of exogenous molecules using acoustic-transfection with high frequency ultrasound. Scientific Reports, 2016, 6, 20477.	3.3	44
34	A Review of Intravascular Ultrasound-based Multimodal Intravascular Imaging. Ultrasonic Imaging, 2016, 38, 314-331.	2.6	44
35	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.	8.9	44
36	Effect of ultrasonic attenuation on the feasibility of acoustic tweezers. Ultrasound in Medicine and Biology, 2006, 32, 1575-1583.	1.5	43

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37	Three-Dimensional Photoacoustic Endoscopic Imaging of the Rabbit Esophagus. PLoS ONE, 2015, 10, e0120269.	2.5	43
38	A feasibility study of in vivo applications of single beam acoustic tweezers. Applied Physics Letters, 2014, 105, 173701.	3.3	41
39	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.	3.0	40
40	Impedance matching network for high frequency ultrasonic transducer for cellular applications. Ultrasonics, 2016, 65, 258-267.	3.9	40
41	Acoustic-transfection for genomic manipulation of single-cells using high frequency ultrasound. Scientific Reports, 2017, 7, 5275.	3.3	40
42	Multi-functional Ultrasonic Micro-elastography Imaging System. Scientific Reports, 2017, 7, 1230.	3.3	40
43	Confocal acoustic radiation force optical coherence elastography using a ring ultrasonic transducer. Applied Physics Letters, 2014, 104, 123702.	3.3	39
44	Fabrication of a (K,Na)NbO3-based lead-free 1-3 piezocomposite for high-sensitivity ultrasonic transducers application. Journal of Applied Physics, 2019, 125, .	2.5	39
45	Urogenital photoacoustic endoscope. Optics Letters, 2014, 39, 1473.	3.3	38
46	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.	3.0	37
47	Recent Advancements in Ultrasound Transducer: From Material Strategies to Biomedical Applications. BME Frontiers, 2022, 2022, .	4.5	37
48	PMN-PT single-crystal high-frequency kerfless phased array. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2014, 61, 1033-1041.	3.0	36
49	Ultrasonic Microelastography to Assess Biomechanical Properties of the Cornea. IEEE Transactions on Biomedical Engineering, 2019, 66, 647-655.	4.2	34
50	Multi-particle trapping and manipulation by a high-frequency array transducer. Applied Physics Letters, 2014, 105, 214103.	3.3	33
51	Acoustic tweezers for studying intracellular calcium signaling in SKBR-3 human breast cancer cells. Ultrasonics, 2015, 63, 94-101.	3.9	33
52	Non-contact High-Frequency Ultrasound Microbeam Stimulation for Studying Mechanotransduction in Human Umbilical Vein Endothelial Cells. Ultrasound in Medicine and Biology, 2014, 40, 2172-2182.	1.5	32
53	Lead-free BNT composite film for high-frequency broadband ultrasonic transducer applications. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2013, 60, 1533-1537.	3.0	31
54	Angled-focused 45MHz PMN-PT single element transducer for intravascular ultrasound imaging. Sensors and Actuators A: Physical, 2015, 228, 16-22.	4.1	31

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55	Cell membrane deformation induced by a fibronectin-coated polystyrene microbead in a 200-MHz acoustic trap. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2014, 61, 399-406.	3.0	29
56	Contactless microparticle control via ultrahigh frequency needle type single beam acoustic tweezers. Applied Physics Letters, 2016, 109, 173509.	3.3	29
57	Development of a KNN Ceramic-Based Lead-Free Linear Array Ultrasonic Transducer. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2018, 65, 2113-2120.	3.0	29
58	Micro-particle manipulation by single beam acoustic tweezers based on hydrothermal PZT thick film. AIP Advances, 2016, 6, 035102.	1.3	28
59	Quantification of Inter-Erythrocyte Forces with Ultra-High Frequency (410ÂMHz) Single Beam Acoustic Tweezer. Annals of Biomedical Engineering, 2017, 45, 2174-2183.	2.5	28
60	Non-Rigid Ultrasound Image Registration Based on Intensity and Local Phase Information. Journal of Signal Processing Systems, 2009, 54, 33-43.	2.1	26
61	Non-coding RNAs derived from an alternatively spliced REST transcript (REST-003) regulate breast cancer invasiveness. Scientific Reports, 2015, 5, 11207.	3.3	26
62	Label-free analysis of the characteristics of a single cell trapped by acoustic tweezers. Scientific Reports, 2017, 7, 14092.	3.3	26
63	High-Resolution Shear Wave Imaging of the Human Cornea Using a Dual-Element Transducer. Sensors, 2018, 18, 4244.	3.8	26
64	Ultrasonic elastography to assess biomechanical properties of the optic nerve head and peripapillary sclera of the eye. Ultrasonics, 2021, 110, 106263.	3.9	25
65	A sidelobe suppressing near-field beamforming approach for ultrasound array imaging. Journal of the Acoustical Society of America, 2015, 137, 2785-2790.	1.1	24
66	Dual-element needle transducer for intravascular ultrasound imaging. Journal of Medical Imaging, 2015, 2, 027001.	1.5	23
67	An adjustable multiâ€scale single beam acoustic tweezers based on ultrahigh frequency ultrasonic transducer. Biotechnology and Bioengineering, 2017, 114, 2637-2647.	3.3	23
68	Development of an intravascular ultrasound elastography based on a dual-element transducer. Royal Society Open Science, 2018, 5, 180138.	2.4	23
69	In Vivo Visualization of Eye Vasculature Using Super-Resolution Ultrasound Microvessel Imaging. IEEE Transactions on Biomedical Engineering, 2020, 67, 2870-2880.	4.2	23
70	Low-Intensity Ultrasound Modulates Ca2+ Dynamics in Human Mesenchymal Stem Cells via Connexin 43 Hemichannel. Annals of Biomedical Engineering, 2018, 46, 48-59.	2.5	22
71	Systematic study of high-frequency ultrasonic transducer design for laser-scanning photoacoustic ophthalmoscopy. Journal of Biomedical Optics, 2014, 19, 016015.	2.6	20
72	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.	7.0	20

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73	Focused Ultrasound Stimulates ER Localized Mechanosensitive PANNEXIN-1 to Mediate Intracellular Calcium Release in Invasive Cancer Cells. Frontiers in Cell and Developmental Biology, 2020, 8, 504.	3.7	20
74	High frequency ultrasound: A new frontier for ultrasound. , 2009, 2009, 1953-5.		19
75	A combined ultrasonic B-mode and color Doppler system for the classification of breast masses using neural network. European Radiology, 2020, 30, 3023-3033.	4.5	18
76	Entropic Imaging of Cataract Lens: An In Vitro Study. PLoS ONE, 2014, 9, e96195.	2.5	18
77	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.	1.5	17
78	Noninvasive Ultrasound Retinal Stimulation for Vision Restoration at High Spatiotemporal Resolution. BME Frontiers, 2022, 2022, .	4.5	17
79	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.	3.4	16
80	Characterizing Deformability of Drug Resistant Patient-Derived Acute Lymphoblastic Leukemia (ALL) Cells Using Acoustic Tweezers. Scientific Reports, 2018, 8, 15708.	3.3	16
81	Helicalâ€Like 3D Ultrathin Piezoelectric Element for Complicated Ultrasonic Field. Advanced Functional Materials, 2019, 29, 1902912.	14.9	15
82	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.	3.0	15
83	Fabrication and Characterization of a Miniaturized 15-MHz Side-Looking Phased-Array Transducer Catheter. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2019, 66, 1079-1092.	3.0	14
84	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.	3.0	14
85	Super-Resolution Ultrasound Localization Microscopy for Visualization of the Ocular Blood Flow. IEEE Transactions on Biomedical Engineering, 2022, 69, 1585-1594.	4.2	14
86	Distribution and deposition of organic fouling on the microfiltration membrane evaluated by high-frequency ultrasound. Journal of Membrane Science, 2013, 433, 100-111.	8.2	12
87	Power Amplifier Linearizer for High Frequency Medical Ultrasound Applications. Journal of Medical and Biological Engineering, 2015, 35, 226-235.	1.8	12
88	Monitoring of Adult Zebrafish Heart Regeneration Using High-Frequency Ultrasound Spectral Doppler and Nakagami Imaging. Sensors, 2019, 19, 4094.	3.8	12
89	Classification of Breast Cancer Cells Using the Integration of High-Frequency Single-Beam Acoustic Tweezers and Convolutional Neural Networks. Cancers, 2020, 12, 1212.	3.7	12
90	Non-contact multi-particle annular patterning and manipulation with ultrasound microbeam. Applied Physics Letters, 2014, 104, 244107.	3.3	11

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91	2-D Ultrasonic Array-Based Optical Coherence Elastography. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2021, 68, 1096-1104.	3.0	11
92	Fabrication of 20 MHz convex array transducers for high frequency ophthalmic imaging. , 2009, , .		10
93	Investigation of Optimized Treatment Conditions for Acoustic-Transfection Technique for Intracellular Delivery of Macromolecules. Ultrasound in Medicine and Biology, 2018, 44, 622-634.	1.5	10
94	Bipolar-power-transistor-based limiter for high frequency ultrasound imaging systems. Ultrasonics, 2014, 54, 754-758.	3.9	9
95	Non-contact acoustic radiation force impulse microscopy via photoacoustic detection for probing breast cancer cell mechanics. Biomedical Optics Express, 2015, 6, 11.	2.9	9
96	CMOS High-Voltage Analog 1â€“64 Multiplexer/Demultiplexer for Integrated Ultrasound Guided Breast Needle Biopsy. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2018, 65, 1334-1345.	3.0	9
97	Enhanced Structures and Electrical Properties of Leadâ€Free K_{0.5}Na_{0.5}NbO₃â€“Bi_{0.5}Na_{0.5}TiO₃3.8 0â€“3 Composite FerroelectricThick Films. Journal of the American Ceramic Society, 2011, 94, 3425-3430.		8
98	A Dual-Modality Hybrid Imaging System Harnesses Radioluminescence and Sound to Reveal Molecular Pathology of Atherosclerotic Plaques. Scientific Reports, 2018, 8, 8992.	3.3	8
99	High-resolution harmonic motion imaging (HR-HMI) for tissue biomechanical property characterization. Quantitative Imaging in Medicine and Surgery, 2015, 5, 108-17.	2.0	8
100	A Novel Ultrasound Technique for Non-Invasive Assessment of Cell Differentiation. IEEE Sensors Journal, 2016, 16, 61-68.	4.7	7
101	Investigation of Ultrasound-Mediated Intracellular Ca2+ Oscillations in HIT-T15 Pancreatic Î²-Cell Line. Cells, 2020, 9, 1129.	4.1	7
102	Single microparticle manipulation by an ultrasound microbeam. , 2010, , .		6
103	New MOSFET-based expander for high frequency ultrasound systems. , 2012, , .		6
104	Development of high frequency linear arrays using interdigital bonded composites. , 2008, , .		5
105	Design of a 64-channel Digital High Frequency linear array ultrasound imaging beamformer on a Massively Parallel Processor Array. , 2008, , .		5
106	Development of integrated preamplifier for high frequency ultrasonic transducer. , 2010, , .		5
107	Power MOSFETâ€“Diodeâ€“Based Limiter for High-Frequency Ultrasound Systems. Ultrasonic Imaging, 2014, 36, 317-330.	2.6	5
108	A configurable dual-frequency transmit/receive system for acoustic angiography imaging. , 2014, , .		5

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109	Integrin Antibody Decreases Deformability of Patientâ€Derived Preâ€B Acute Lymphocytic Leukemia Cells as Measured by Highâ€Frequency Acoustic Tweezers. Journal of Ultrasound in Medicine, 2020, 39, 589-595.	1.7	5
110	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.	3.0	5
111	A family of intracardiac ultrasound imaging devices designed for guidance of electrophysiology ablation procedures. , 2009, 2009, 1913-7.		4
112	High frequency ultrasonic transducer with KNN/BNT 0–3 composite active element. , 2010, , .		4
113	Characterization and evaluation of high frequency convex array transducers. , 2010, , .		4
114	Novel limiter using biploar power transistors for high frequency ultrasonic transducer applications. , 2011, , .		4
115	An open system for intravascular ultrasound imaging. , 2012, , .		4
116	10.1063/1.3206910.1. , 2009, , .		4
117	Sonothrombolysis of Ear Marginal Vein of Rabbits Monitored with High-frequency Ultrasound Needle Transducer. Journal of Medical and Biological Engineering, 2013, 33, 103-110.	1.8	4
118	Improved high-frequency high frame rate duplex ultrasound linear array imaging system. , 2008, , .		3
119	DESIGN AND FABRICATION OF HIGH-INTENSITY FOCUSED ULTRASOUND PHASED ARRAY FOR LIVER TUMOR THERAPY. Biomedical Engineering - Applications, Basis and Communications, 2009, 21, 187-192.	0.6	3
120	Design of a 64 channel analog receive beamformer for high frequency linear arrays. , 2010, , .		3
121	Development of a digital high frequency ultrasound array imaging system. , 2010, , .		3
122	Fabrication and characterization of a 20 MHz microlinear phased array transducer for intervention guidance. , 2014, , .		3
123	Development of Hydrostatic Annular Ultrasounds Transducers for Intravascular Sonoelastographic Shear Velocity Imaging. , 2019, , .		3
124	Automated estimation of cancer cell deformability with machine learning and acoustic trapping. Scientific Reports, 2022, 12, 6891.	3.3	3
125	Dielectric relaxation behavior of BaTiO3/SrTiO3 composites. Journal of Materials Science, 2005, 40, 1509-1511.	3.7	2
126	Real-time simultaneous therapy and imaging for noninvasive HIFU surgery of prostate tissue. , 2009, , .		2

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127	Real-time co-registered IVUS-OCT catheter for atherosclerotic plaque identification. , 2013, , .		2
128	Bipolar pulse generator for very high frequency (> 100 MHz) ultrasound applications. , 2013, , .		2
129	High-frequency ultrasound imaging for breast cancer biopsy guidance. Journal of Medical Imaging, 2015, 2, 047001.	1.5	2
130	Cross-Sectional Nakagami Images in Passive Stretches Reveal Damage of Injured Muscles. BioMed Research International, 2016, 2016, 1-11.	1.9	2
131	Biomimetics: Biomimetic Anisotropic Reinforcement Architectures by Electrically Assisted Nanocomposite 3D Printing (Adv. Mater. 11/2017). Advanced Materials, 2017, 29, .	21.0	2
132	High frequency single crystal ultrasonic transducers up to 100 MHz for high resolution ophthalmic imaging applications. , 2017, , .		2
133	Correlation of IOP with Corneal Acoustic Impedance in Porcine Eye Model. BioMed Research International, 2017, 2017, 1-6.	1.9	2
134	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.	3.0	2
135	PMN-PT high frequency ultrasonic needle transducers for pulsed wave Doppler in the eye. , 0, , .		1
136	Novel biomedical imaging that combines intravascular ultrasound (IVUS) and optical coherence tomography (OCT). , 2008, , .		1
137	Development of high frequency annular array ultrasound transducers using interdigital bonded composites. , 2009, , .		1
138	Optimal suppression of therapeutic interference for real-time therapy and imaging with an integrated HIFU/imaging transducer. , 2010, , .		1
139	Cardiac parameters analysis for zebrafish heart regeneration based on high frequency ultrasound imaging. , 2010, , .		1
140	High frequency, high frame rate pulse inversion chirp coded tissue harmonic imaging. , 2011, , .		1
141	80 MHz Intravascular Ultrasound (IVUS) transducer. , 2011, , .		1
142	Two-dimensional cell trapping by ultrasound microbeam. , 2011, , .		1
143	Ultrahigh frequency ultrasound microbeam for biomedical applications. , 2012, , .		1
144	Micro defect detection on silicon carbide mirror with high frequency ultrasound array scanning. , 2012, , .		1

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145	Integrated IVUS-OCT catheter for in vivo intravascular imaging. , 2012, , .		1
146	Zebrafish egg manipulation using ultrasound microbeam. , 2013, , .		1
147	Wideband portable power amplifier design for very high frequency ultrasonic transducer applications. , 2013, , .		1
148	KNN-based single crystal high frequency transducer for intravascular photoacoustic imaging. , 2017, , .		1
149	Notice of Removal: Intravascular Ultrasound (IVUS) imaging reaching 100 MHz. , 2017, , .		1
150	Notice of Removal: Virtual source synthetic aperture focusing and coherence factor weighting for intravascular ultrasound (IVUS). , 2017, , .		1
151	Biomedical Applications: Ultrasoundâ€Induced Wireless Energy Harvesting for Potential Retinal Electrical Stimulation Application (Adv. Funct. Mater. 33/2019). Advanced Functional Materials, 2019, 29, 1970231.	14.9	1
152	Ultrasonic Synthetic Aperture Focusing Technique With Finite Source Element for Focused Transducers. Journal of Testing and Evaluation, 2014, 42, 842-850.	0.7	1
153	Ultrasonic Doppler measurements of blood flow velocity of rabbit retinal vessels with high-frequency angled needle transducer. , 2008, , .		0
154	A novel scan method using angled high frequency single element needle transducers. , 2008, , .		0
155	Longitudinal study of adult zebrafish heart regeneration using high frequency echocardiography. , 2008, , .		0
156	Development of 1.5D cylindrical HIFU phased array. , 2008, , .		0
157	Calibration of acoustic trapping forces by fluid drag forces. , 2009, , .		0
158	In situ measurements of attenuation coefficient for evaluating the hardness of cataract lens by a high frequency ultrasonic needle transducer. , 2009, , .		0
159	High-resolution co-registered intravascular imaging with integrated high frequency ultrasound and OCT probe. , 2010, , .		0
160	A 40 MHz high frequency ultrasound embedded epidural needle for assisting epidural access in pig study. , 2010, , .		0
161	Acoustic particle trapping in a microfluidic device using frequency modulated signal. , 2011, , .		0
162	Extended necrosis by using dual-curved therapeutic transducer for noninvasive HIFU surgery. , 2011, , .		0

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163	Intravascular ultrasound chirp imaging. , 2011, , .		0
164	Real time acoustic sensing of flowing microdroplets in a microfluidic device. , 2011, , .		0
165	A flexible annular array imaging platform for micro-ultrasound. , 2012, , .		0
166	Dual-frequency acoustic cavitation for noninvasively breaking down a cataractous lens. , 2012, , .		0
167	Coded excitation technique for real-time simultaneous HIFU therapy and imaging. , 2012, , .		0
168	Ultrasonic stimulation of single bovine aortic endothelial cells at 1GHz. , 2012, , .		0
169	Recent advances in developing biomedical applications of single beam acoustic tweezers. , 2015, , .		0
170	Discrimination of minimal residual disease in acute lymphoblastic leukemia by using single-beam acoustic tweezer. , 2017, , .		0
171	Discrimination of minimal residual disease in acute lymphoblastic leukemia by using single-beam acoustic tweezer. , 2017, , .		0
172	Notice of Removal: Multi-focused acoustic holograms by 3D printing. , 2017, , .		0
173	KNN-based single crystal high frequency transducer for intravascular photoacoustic imaging. , 2017, , .		0
174	Notice of Removal: Acoustic-transfection for gene editing using high frequency ultrasound. , 2017, , .		0
175	Notice of Removal: Assessment of corneal biomechanical properties using the ultrasonic micro-elastography. , 2017, , .		0
176	Notice of Removal: Quantitative assessment of plate-like tissue viscoelastic properties using ultrasonic micro-elsatography with lamb wave model. , 2017, , .		0
177	Characterizing the Motility of Chemotherapeutics-Treated Acute Lymphoblastic Leukemia Cells by Time-Lapse Imaging. Cells, 2020, 9, 1470.	4.1	0
178	10.1063/1.4793654.1. , 2013, , .		0