Sandy Cochran

List of Publications by Year
in descending order

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259	3,062	236925	206112
papers	citations	25 h-index	48 g-index

262	262	262	3165
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Ultrasound technology for capsule endoscopy. , 2022, , 215-240.		3
2	Progress towards wafer-scale fabrication based on gel casting technique for 1â€“3 randomised piezocomposite Î¼US linear array. Journal of the European Ceramic Society, 2022, 42, 5565-5574.	5.7	2
3	A Learning-Based Microultrasound System for the Detection of Inflammation of the Gastrointestinal Tract. IEEE Transactions on Medical Imaging, 2021, 40, 38-47.	8.9	14
4	Full Set of Material Properties of Lead-Free PIC 700 for Transducer Designers. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2021, 68, 1797-1807.	3.0	10
5	High-Efficiency High Voltage Hybrid Charge Pump Design With an Improved Chip Area. IEEE Access, 2021, 9, 94386-94397.	4.2	6
6	Ultrasound mediated delivery of quantum dots from a proof of concept capsule endoscope to the gastrointestinal wall. Scientific Reports, 2021, 11, 2584.	3.3	16
7	Development of a Point-of-Care Ultrasound Driver for Applications with Low Power and Reduced Area Requirements. , 2021, , .		3
8	A Measure of Energy Density to Quantify Progress in Pb-free Piezoelectric Material Development. , 2021, , .		0
9	High-Power Characterization of d32-Mode Mn:PIN-PMN-PT Piezoelectric Single Crystals at Different Temperatures. , 2021, , .		0
10	Manipulating the Barrier Function of a Cell Monolayer Using a High-power Miniature Ultrasonic Transducer. , 2021, , .		1
11	Design and characterisation of a micro-US linear array based on randomised piezocomposite. , 2021, , .		0
12	Multimodal Integrated Sensor Platform for Rapid Biomarker Detection. IEEE Transactions on Biomedical Engineering, 2020, 67, 614-623.	4.2	26
13	Multi-Channel Signal-Generator ASIC for Acoustic Holograms. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2020, 67, 49-56.	3.0	3
14	Ultrasound Capsule Endoscopy With a Mechanically Scanning Micro-ultrasound: A Porcine Study. Ultrasound in Medicine and Biology, 2020, 46, 796-804.	1.5	19
15	Evaluation of PIC 181 and Mn:PIN-PMN-PT thickness extensional rings for use in power ultrasonic devices for minimally invasive surgery. , 2020, , .		1
16	Enhanced Modelling of a 1-D Phased Ultrasonic Array for Intracorporeal Sonoporation. , 2020, , .		0
17	Effect of Freezing and Fixation on Quantitative Ultrasound Parameters in Phantoms of Brain and Brain Tumour. , 2020, , .		1
18	Progress Towards the Miniaturization of an Ultrasonic Scalpel for Robotic Endoscopic Surgery Using Mn:PIN-PMN-PT High Performance Piezocrystals. , 2020, , .		1

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19	Introduction of a Measurement Setup to Monitor the Pressure Applied During Handheld Ultrasound Elastography. Ultrasound in Medicine and Biology, 2020, 46, 2556-2559.	1.5	4
20	Imitation of spin density wave order in Cu3Nb2O8. Physical Review B, 2020, 102, .	3.2	6
21	Twisting waves increase the visibility of nonlinear behaviour. New Journal of Physics, 2020, 22, 063021.	2.9	1
22	An Organoid-derived Cell Layer as an in vitro Model for US-mediated Drug Delivery Studies. , 2020, , .		3
23	Deep Compressed Sensing for Characterizing Inflammation Severity with Microultrasound. , 2020, , .		0
24	In-Vivo Evaluation of Microultrasound and Thermometric Capsule Endoscopes. IEEE Transactions on Biomedical Engineering, 2019, 66, 632-639.	4.2	25
25	Thin Film PZT-Based PMUT Arrays for Deterministic Particle Manipulation. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2019, 66, 1606-1615.	3.0	20
26	Intelligent magnetic manipulation for gastrointestinal ultrasound. Science Robotics, 2019, 4, .	17.6	77
27	Spin-wave directional anisotropies in antiferromagnetic Ba3NbFe3Si2O14. Physical Review B, 2019, 100, .	3.2	5
28	Gastrointestinal diagnosis using non-white light imaging capsule endoscopy. Nature Reviews Gastroenterology and Hepatology, 2019, 16, 429-447.	17.8	35
29	Light sheet microscopy with acoustic sample confinement. Nature Communications, 2019, 10, 669.	12.8	25
30	Ultrasound Capsule Endoscopy Components for in vivo and ex vivo Microultrasound Near-Field Imaging. , 2019, , .		2
31	Microfabrication of 1-3 Composites with Photolithographically Defined Electrode Patterns for Kerfless Microultrasound Arrays. , 2019, , .		3
32	Development of a 1-D Linear Phased Ultrasonic Array for Intravascular Sonoporation. , 2019, , .		1
33	Quantitative Ultrasound Differentiates Brain and Brain Tumour Phantoms. , 2019, , .		1
34	Design of Nanoparticles for Focused Ultrasound Drug Delivery. , 2019, , 205-239.		3
35	Common acoustic phonon lifetimes in inorganic and hybrid lead halide perovskites. Physical Review Materials, 2019, 3, .	2.4	23
36	Common acoustic phonon lifetimes in inorganic and hybrid lead halide perovskites. Physical Review Materials, 2019, 3, .	2.4	0

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37	Design and Simulation of a Ring-Shaped Linear Array for Microultrasound Capsule Endoscopy. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2018, 65, 589-599.	3.0	17
38	A Prototype Therapeutic Capsule Endoscope for Ultrasound-Mediated Targeted Drug Delivery. Journal of Medical Robotics Research, 2018, 03, 1840001.	1.2	17
39	Circuits and Systems for Biosensing with Microultrasound. , 2018, , 187-209.		0
40	In Vivo Characterization of a Wireless Telemetry Module for a Capsule Endoscopy System Utilizing a Conformal Antenna. IEEE Transactions on Biomedical Circuits and Systems, 2018, 12, 95-105.	4.0	64
41	Ultrasound and Microbubbles Promote the Retention of Fluorescent Compounds in the Small Intestine. , 2018, , .		5
42	Virtual Prototyping of a Catheter Transducer Array for Internal Hepatic Sonoporation. , 2018, , .		0
43	Lead-Free Piezoceramic Based Ultrasonic Device for Medical Application. , 2018, , .		0
44	A Robust, Compact SPICE Model for Piezoelectric Ultrasonic Transducer Array Elements. , 2018, , .		0
45	Challenges in developing collaborative interdisciplinary research between gastroenterologists and engineers. Journal of Medical Engineering and Technology, 2018, 42, 435-442.	1.4	5
46	Integrated Front End Circuitry for Microultrasound Capsule Endoscopy. , 2018, , .		1
47	An area-efficient hybrid high-voltage charge pump design for IoT applications. , 2018, , .		3
48	Progress Towards Piezocrystal and Pb-Free Piezoceramic Performance Prediction for High Power Ultrasound Devices. , 2018, , .		1
49	Imaging Fluorophore-Labelled Intestinal Tissue via Fluorescence Endoscope Capsule. Proceedings (mdpi), 2018, 2, 766.	0.2	4
50	Effect of Ultrasonication on the Attachment of Biological material in Proximity of Gold Nanowire Arrays. , 2018, , .		0
51	Improved Performance of <inline-formula> <tex-math notation="LaTeX">d_{31} </tex-math> </inline-formula>-Mode Needle-Actuating Transducer With PMN-PT Piezocrystal. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2018, 65, 1415-1422.	3.0	3
52	A highly compact packaging concept for ultrasound transducer arrays embedded in neurosurgical needles. Microsystem Technologies, 2017, 23, 3881-3891.	2.0	9
53	First step to facilitate long-term and multi-centre studies of shear wave elastography in solid breast lesions using a computer-assisted algorithm. International Journal of Computer Assisted Radiology and Surgery, 2017, 12, 1533-1542.	2.8	4
54	Development of a Mechanical Scanning Device With High-Frequency Ultrasound Transducer for Ultrasonic Capsule Endoscopy. IEEE Transactions on Medical Imaging, 2017, 36, 1922-1929.	8.9	39

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55	High Resolution Microultrasound (Î¼US) Investigation of the Gastrointestinal (GI) Tract. Methods in Molecular Biology, 2017, 1572, 541-561.	0.9	4
56	Luminally expressed gastrointestinal biomarkers. Expert Review of Gastroenterology and Hepatology, 2017, 11, 1119-1134.	3.0	10
57	A feasibility study of soft embalmed human breast tissue for preclinical trials of HIFU- preliminary results. AIP Conference Proceedings, 2017, , .	0.4	0
58	Development of a therapeutic capsule endoscope for treatment in the gastrointestinal tract: Bench testing to translational trial. , 2017, , .		3
59	Optimization and characterisation of bonding of piezoelectric transducers using anisotropic conductive adhesive. , 2017, , .		0
60	Translational trial outcomes for capsule endoscopy test devices. , 2017, , .		0
61	Nanotechnology in multimodal theranostic capsule endoscopy. , 2017, , .		0
62	Development of a therapeutic capsule endoscope for treatment in the gastrointestinal Tract: Bench testing to translational trial. , 2017, , .		3
63	The fabrication and integration of a 15 MHz array within a biopsy needle. , 2017, , .		0
64	The Performance of Piezoelectric Materials Under Stress. , 2017, , 787-814.		1
65	Acoustic Sensing and Ultrasonic Drug Delivery in Multimodal Theranostic Capsule Endoscopy. Sensors, 2017, 17, 1553.	3.8	15
66	Microultrasound characterisation of ex vivo porcine tissue for ultrasound capsule endoscopy. Journal of Physics: Conference Series, 2017, 797, 012003.	0.4	8
67	Notice of Removal: A fully-automated insonation system for in vitro investigations of ultrasound-mediated targeted drug delivery. , 2017, , .		1
68	Translational trial outcomes for capsule endoscopy test devices. , 2017, , .		0
69	Optimization and characterisation of bonding of piezoelectric transducers using anisotropic conductive adhesive. , 2017, , .		0
70	Acoustic radiation pressure as a versatile tool for cell compression and mechanobiology studies. , 2017, , .		0
71	The fabrication and integration of a 15 MHz array within a biopsy needle. , 2017, , .		0
72	Notice of Removal: A few twists regarding the momentum of shaped beams. , 2017, , .		0

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73	Ultrasound capsule endoscopy: sounding out the future. Annals of Translational Medicine, 2017, 5, 201-201.	1.7	28
74	2-D crossed-electrode transducer arrays for ultrasonic particle manipulation. , 2016, , .		3
75	Loss characterisation of piezocrystals under elevated environmental conditions. , 2016, , .		2
76	Ultrasound facilitated marking of gastrointestinal tissue with fluorescent material. , 2016, , .		4
77	Assessment of the ultrasonic properties of additive manufactured materials for passive components of piezoelectric transducers. , 2016, , .		2
78	Comparison of needle actuation transducers working in the d<inf>31</inf> and d<inf>33</inf> modes. , 2016, , .		1
79	Progress towards a multi-modal capsule endoscopy device featuring microultrasound imaging. , 2016, , .		10
80	Intraoperative Ultrasound-Guided Resection of Gliomas: A Meta-Analysis and Review of the Literature. World Neurosurgery, 2016, 92, 255-263.	1.3	78
81	Implementation of a PMN-PT piezocrystal-based focused array with geodesic faceted structure. Ultrasonics, 2016, 69, 137-143.	3.9	1
82	An in vitro sonication system for applications in ultrasound-mediated targeted drug delivery. , 2016, , .		3
83	Increased variability in ApcMin/+ intestinal tissue can be measured with microultrasound. Scientific Reports, 2016, 6, 29570.	3.3	17
84	Role of periodic shock waves in passive acoustic mapping of cavitation. , 2016, , .		1
85	Modelling and characterisation of a ultrasound-actuated needle for improved visibility in ultrasound-guided regional anaesthesia and tissue biopsy. Ultrasonics, 2016, 69, 38-46.	3.9	13
86	Dual Orientation 16-MHz Single-Element Ultrasound Needle Transducers for Image-Guided Neurosurgical Intervention. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2016, 63, 233-244.	3.0	5
87	Glass-windowed ultrasound transducers. Ultrasonics, 2016, 68, 108-119.	3.9	5
88	A randomised, singleâ€blind technical study comparing the ultrasonic visibility of smoothâ€surfaced and textured needles in a soft embalmed cadaver model. Anaesthesia, 2015, 70, 537-542.	3.8	9
89	Ex-vivo navigation of neurosurgical biopsy needles using microultrasound transducers with M-mode imaging. , 2015, , .		1
90	Functional Piezocrystal Characterisation under Varying Conditions. Materials, 2015, 8, 8304-8326.	2.9	21

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91	InÂVitro Investigation of the Individual Contributions of Ultrasound-Induced Stable and Inertial Cavitation in Targeted Drug Delivery. Ultrasound in Medicine and Biology, 2015, 41, 1853-1864.	1.5	20
92	A compact packaging technique for the integration of ultrasound probes in surgical needles. , 2015, , .		0
93	High-power characterization of a microcutter actuated by PMN-PT piezocrystals. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2015, 62, 1957-1967.	3.0	5
94	Functional characterization of piezocrystals monitored under high power driving conditions. , 2015, , .		2
95	Microultraound and small bowel inflammation: Tissue phantom studies. , 2015, , .		1
96	Development of a hybrid custom / commercial multi-channel, high-frequency transmit pulser and beamformer system. , 2015, , .		0
97	Capsule-based ultrasound-mediated targeted gastrointestinal drug delivery. , 2015, , .		4
98	Open-source, high-throughput ultrasound treatment chamber. Biomedizinische Technik, 2015, 60, 77-87.	0.8	8
99	Screen-printed ultrasonic 2-D matrix array transducers for microparticle manipulation. Ultrasonics, 2015, 62, 136-146.	3.9	15
100	Piezoelectric Micromachined Ultrasound Transducer (PMUT) Arrays for Integrated Sensing, Actuation and Imaging. Sensors, 2015, 15, 8020-8041.	3.8	257
101	High-performance planar ultrasonic tool based on d₃₁-mode piezocrystal. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2015, 62, 428-438.	3.0	7
102	Tunable beam shaping with a phased array acousto-optic modulator. Optics Express, 2015, 23, 26.	3.4	35
103	Design and Characterization of an Ultrasonic Surgical Tool Using d31 PMN-PT Plate. Physics Procedia, 2015, 63, 182-188.	1.2	4
104	Quantitative assessment of Thiel soft-embalmed human cadavers using shear wave elastography. Annals of Anatomy, 2015, 202, 52-56.	1.9	27
105	Alignment of an acoustic manipulation device with cepstral analysis of electronic impedance data. Ultrasonics, 2015, 56, 172-177.	3.9	4
106	Enhanced US-guided needle intervention through ultrasound actuation of a standard needle. , 2014, , .		7
107	Transparent glass-windowed ultrasound transducers. , 2014, , .		0
108	Mass-spring matching layers for high-frequency ultrasound transducers: a new technique using vacuum deposition. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2014, 61, 1911-1921.	3.0	26

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109	Acoustic Devices for Particle and Cell Manipulation and Sensing. Sensors, 2014, 14, 14806-14838.	3.8	53
110	Letters: optically transparent piezoelectric transducer for ultrasonic particle manipulation. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2014, 61, 389-391.	3.0	43
111	Hybrid optical and acoustic force based sorting. , 2014, , .		4
112	Automatic estimation of elasticity parameters in breast tissue. Proceedings of SPIE, 2014, , .	0.8	2
113	Advanced electrical array interconnections for ultrasound probes integrated in surgical needles. , 2014, , .		4
114	15 MHz single element ultrasound needle transducers for neurosurgical applications. , 2014, , .		3
115	Customized modular multichannel electronics for ultrasound-mediated targeted drug delivery with a geodesic piezocrystal phased array. , 2014, , .		1
116	Design and simulation of a high-frequency ring-shaped linear array for capsule ultrasound endoscopy. , 2014, , .		8
117	Performance optimization of ultrasonic needle actuating device for insertion operation into tissue mimics. , 2014, , .		4
118	Automatic frequency tracking system for needle actuating device. , 2014, , .		3
119	Characterization of a Langevin transducer incorporating Mn-doped piezocrystal material. , 2014, , .		0
120	Non-linear cavitation cloud oscillations in High-Intensity Focused Ultrasound. , 2014, , .		0
121	Vacuum deposition of mass-spring matching layers for high-frequency ultrasound transducers. , 2014, , .		1
122	Automated performance assessment of ultrasound systems using a dynamic phantom. Ultrasound, 2014, 22, 199-204.	0.7	2
123	FPGA embedded system for ultrasound particle manipulation with Sonotweezers. , 2014, , .		0
124	Resonance tracking and vibration stablilization for high power ultrasonic transducers. Ultrasonics, 2014, 54, 187-194.	3.9	76
125	Independent trapping and manipulation of microparticles using dexterous acoustic tweezers. Applied Physics Letters, 2014, 104, 154103.	3.3	168
126	Acoustic Tractor Beam. Physical Review Letters, 2014, 112, 174302.	7.8	74

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127	Ultrasound beam distortion and pressure reduction in transcostal focused ultrasound surgery. Applied Acoustics, 2014, 76, 337-345.	3.3	3
128	Periodic shock-emission from acoustically driven cavitation clouds: A source of the subharmonic signal. Ultrasonics, 2014, 54, 2151-2158.	3.9	61
129	Synthesis and Inclusion Study of a Novel Î³-Cyclodextrin Derivative as a Potential Thermo-Sensitive Carrier for Doxorubicin. Chemical and Pharmaceutical Bulletin, 2014, 62, 627-635.	1.3	6
130	Ultrasound-mediated targeted drug delivery with a novel cyclodextrin-based drug carrier by mechanical and thermal mechanisms. Journal of Controlled Release, 2013, 170, 316-324.	9.9	41
131	Ultrasound assisted particle and cell manipulation on-chip. Advanced Drug Delivery Reviews, 2013, 65, 1600-1610.	13.7	62
132	Mapping out tractor beams: topological angular momentum and reduced axial flux; gradient versus non-conservative forces. , 2013, , .		0
133	Ultrasound-Mediated Targeted Drug Delivery Generated by Multifocal Beam Patterns: An InÂvitro Study. Ultrasound in Medicine and Biology, 2013, 39, 507-514.	1.5	11
134	Dexterous manipulation of microparticles using Bessel-function acoustic pressure fields. Applied Physics Letters, 2013, 102, .	3.3	127
135	Thick film PZT transducer arrays for particle manipulation. , 2013, , .		0
136	Effects of power levels and soft tissue loads on an ultrasonic planar tool driven by PMN-PT d<inf>31</inf> plates. , 2013, , .		1
137	Reduced penetration force through ultrasound activation of a standard needle: An experimental and computational study. , 2013, , .		6
138	Shear Wave Elastography. Anesthesiology, 2013, 119, 698-698.	2.5	10
139	Tailoring Acoustic Beam Momentum and Angular Momentum. , 2013, , .		0
140	Planar Particle Trapping and Manipulation with Ultrasonic Transducer Arrays. , 2013, , .		0
141	Images in anesthesiology: shear wave elastography: novel technology for ultrasound-guided regional anesthesia. Anesthesiology, 2013, 119, 698.	2.5	1
142	Modelling ultrasonic-transducer performance: one-dimensional models. , 2012, , 187-219.		4
143	Application of sonoelastography to regional anaesthesia: a descriptive study with the Thiel embalmed cadaver model. Ultrasound, 2012, 20, 41-48.	0.7	5
144	High-frequency transducer for MR-guided FUS. Biomedizinische Technik, 2012, 57, .	0.8	0

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145	Optimizing sonication protocols for transthoracic focused ultrasound surgery. , 2012, , .		0
146	New piezocrystal material in the development of a 96-element array transducer for MR-guided focused ultrasound surgery. AIP Conference Proceedings, 2012, , .	0.4	2
147	Simultaneous measurements of thermo-physical properties of egg white phantoms for HIFU by using the step-wise transient plane source technique. , 2012, , .		0
148	Focusing through the rib cage for MR-guided transcostal FUS. , 2012, , .		2
149	Applicator for in-vitro ultrasound-activated targeted drug delivery. , 2012, , .		0
150	Particle manipulation in a microfluidic channel with an electronically controlled linear piezoelectric array. , 2012, , .		2
151	Ultrasonic cutting with resonance tracking and vibration stabilization. , 2012, , .		6
152	Directed jetting from collapsing cavities exposed to focused ultrasound. Applied Physics Letters, 2012, 100, 024104.	3.3	17
153	Microfabrication of electrode patterns for high-frequency ultrasound transducer arrays. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2012, 59, 1820-1829.	3.0	12
154	Investigating the motility of Dictyostelium discodeum using high frequency ultrasound as a method of manipulation. , 2012, , .		2
155	Micromachined diaphragm transducers for miniaturised ultrasound arrays. , 2012, , .		9
156	Ultrasound Activated Nano-Encapsulated Targeted Drug Delivery and Tumour Cell Poration. Advances in Experimental Medicine and Biology, 2012, 733, 135-144.	1.6	5
157	Micro-moulded randomised piezocomposites for high frequency ultrasound imaging. , 2012, , .		8
158	The importance of physics to progress in medical treatment. Lancet, The, 2012, 379, 1534-1543.	13.7	11
159	Echogenic Regional Anaesthesia Needles: A Comparison Study in Thiel Cadavers. Ultrasound in Medicine and Biology, 2012, 38, 702-707.	1.5	44
160	Piezoelectricity and basic configurations for piezoelectric ultrasonic transducers. , 2012, , 3-35.		7
161	Low temperature bonding of piezoelectric single crystal materials for miniaturized high resolution ultrasound transducers. , 2012, , .		0
162	Low temperature bonding of piezoelectric single crystal materials for miniaturized high resolution ultrasound transducers. , 2012, , .		1

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163	Array-controlled ultrasonic manipulation of particles in planar acoustic resonator. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2012, 59, 1258-1266.	3.0	85
164	Application of gel-casting to the fabrication of 1â€“3 piezoelectric ceramicâ€“polymer composites for high-frequency ultrasound devices. Journal of Micromechanics and Microengineering, 2012, 22, 125001.	2.6	19
165	Mechanical Evidence of the Orbital Angular Momentum to Energy Ratio of Vortex Beams. Physical Review Letters, 2012, 108, 194301.	7.8	143
166	Simultaneous Measurement of Thermophysical Properties of Tissue-Mimicking Phantoms for High Intensity Focused Ultrasound (HIFU) Exposures. International Journal of Thermophysics, 2012, 33, 495-504.	2.1	4
167	Translation of sonoelastography from Thiel cadaver to patients for peripheral nerve blocks*. Anaesthesia, 2012, 67, 721-728.	3.8	20
168	Design, manufacturing and packaging of high frequency micro ultrasonic transducers for medical applications. , 2011, , .		3
169	High performance ultrasonic tool for tissue cutting. , 2011, , .		0
170	Characterization of PMN-29%PT as a function of temperature and pressure. , 2011, , .		1
171	Ultrasonic cutting with a d<inf>31</inf>-mode PMN-PT-driven planar tool. , 2011, , .		4
172	Validation of an automated dynamic phantom to assess the performance of ultrasound system. , 2011, , .		0
173	A sonic screwdriver: Acoustic angular momentum transfer for ultrasonic manipulation. , 2011, , .		3
174	Lithium niobate transducers for MRI-guided ultrasonic microsurgery. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2011, 58, 1570-1576.	3.0	13
175	Characterization of piezocrystals for practical configurations with temperature- and pressure-dependent electrical impedance spectroscopy. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2011, 58, 1793-1803.	3.0	21
176	Characterization of an epoxy filler for piezocomposites compatible with microfabrication processes [Correspondence]. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2011, 58, 2743-2748.	3.0	9
177	Effect of focus splitting on ultrasound propagation through the rib cage in focused ultrasound surgery. , 2011, , .		2
178	The sonic screwdriver: a model system for study of wave angular momentum. , 2011, , .		1
179	Automated transducer testing and calibration with a dynamic phantom. , 2011, , .		0
180	Multi-wavelength ultrasonic standing wave device for non-invasive cell manipulation and characterisation. , 2011, , .		2

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181	Focused ultrasound ablation using real time ultrasound image guidance. , 2011, , .		2
182	Design and fabrication of PMN-PT based high frequency ultrasound imaging devices integrated into medical interventional tools. , 2011, , .		3
183	Encapsulation and controlled release of chemotherapeutic drugs by novel Î³-cyclodextrin derived carriers.. Journal of Clinical Oncology, 2011, 29, e13062-e13062.	1.6	0
184	Manipulation of microparticles using phase-controllable ultrasonic standing waves. Journal of the Acoustical Society of America, 2010, 128, EL195-EL199.	1.1	72
185	Loss effects on adhesively-bonded multilayer ultrasonic transducers by self-heating. Ultrasonics, 2010, 50, 508-511.	3.9	6
186	Investigation of Elevated Temperature Effects on Multiple Layer Piezoelectric Ultrasonic Transducers with Adhesive Bondlines by Self-Heating. , 2010, , .		3
187	Early exploration of MRI-compatible diagnostic ultrasound transducers. , 2010, , .		8
188	An evaluation of Thiel-embalmed cadavers for ultrasound-based regional anaesthesia training and research. Ultrasound, 2010, 18, 125-129.	0.7	31
189	Future integration of silicon electronics with miniature piezoelectric ultrasonic transducers and arrays. , 2010, , .		4
190	Transducer arrays for ultrasonic particle manipulation. , 2010, , .		7
191	Lithium niobate ultrasound transducers for high-resolution focused ultrasound surgery. , 2010, , .		2
192	Progress towards the development of novel fabrication and assembly methods for the next generation of ultrasonic transducers. , 2010, , .		3
193	Low-voltage coded excitation utilizing a miniaturized integrated ultrasound system employing piezoelectric 2-D arrays. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2010, 57, 353-362.	3.0	9
194	Operation of a high frequency piezoelectric ultrasound array with an application specific integrated circuit. , 2009, , .		4
195	The development of therapeutic ultrasound with assistance of robotic manipulator. , 2009, 2009, 733-6.		2
196	Techniques for wirebond free interconnection of piezoelectric ultrasound arrays operating above 50 MHz. , 2009, , .		5
197	Focused ultrasound for early detection of tooth decay. , 2009, , .		6
198	Investigation of dental samples using a 35MHz focussed ultrasound piezocomposite transducer. Ultrasonics, 2009, 49, 212-218.	3.9	28

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199	Functional characterisation of high frequency arrays based on micro-moulded 1â€“3 piezocomposites. , 2009, , .		6
200	1â€“3 piezocomposite design optimised for high frequency kerfless transducer arrays. , 2009, , .		10
201	Concepts and issues in piezoâ€onâ€3D silicon structures. Sensor Review, 2009, 29, 326-332.	1.8	7
202	The development of a robotic approach to therapeutic ultrasound. Journal of Physics: Conference Series, 2009, 181, 012017.	0.4	4
203	Progress towards waferâ€scale fabrication of ultrasound arrays for realâ€time highâ€resolution biomedical imaging. Sensor Review, 2009, 29, 333-338.	1.8	8
204	Comparison of Wax and Wax-free Mounting of Irregular Piezocomposite Materials for Thinning for High-frequency Medical Devices. IEEE International Symposium on Semiconductor Manufacturing Conference, Proceedings, 2008, , .	0.0	0
205	A modular FPGA-based ultrasonic array system for applications including non-destructive testing. Insight: Non-Destructive Testing and Condition Monitoring, 2008, 50, 74-77.	0.6	4
206	Characterisation of an epoxy filler for piezocomposite material compatible with microfabrication processes. , 2008, , .		7
207	Fundamental performance characterisation of high frequency piezocomposites made with net-shape viscous polymer processing for medical ultrasound transducers. , 2008, , .		3
208	MOSAIC: A SCALABLE RECONFIGURABLE 2D ARRAY SYSTEM FOR NDT. AIP Conference Proceedings, 2008, , .	0.4	1
209	Characterisation of self-heating effects on multilayer ultrasonic transducers with adhesive bondlines. Electronics Letters, 2008, 44, 1333.	1.0	2
210	Material parameter variations of lead metaniobate piezoceramic in elevated temperature applications. Electronics Letters, 2008, 44, 940.	1.0	9
211	Determining moisture content in concrete under simulated precipitation using ultrasonic propagation time measurements. Nondestructive Testing and Evaluation, 2008, 23, 241-255.	2.1	6
212	P3K-5 Passive Materials for High Frequency Ultrasound Components. Proceedings IEEE Ultrasonics Symposium, 2007, , .	0.0	7
213	11D-3 MOSAIC: An Integrated Ultrasonic 2D Array System. Proceedings IEEE Ultrasonics Symposium, 2007, , .	0.0	3
214	P5C-5 Design and Validation of an Ultrasound Array Optimised for Epidural Needle Guidance. Proceedings IEEE Ultrasonics Symposium, 2007, , .	0.0	1
215	2F-6 Properties and Application-Oriented Performance of High Frequency Piezocomposite Ultrasonic Transducers. Proceedings IEEE Ultrasonics Symposium, 2007, , .	0.0	7
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