Sandy Cochran

List of Publications by Citations

183 papers	2,144 citations	23 h-index	39 g-index
262 ext. papers	2,636 ext. citations	3.8 avg, IF	4.74 L-index

#	Paper	IF	Citations
183	Piezoelectric micromachined ultrasound transducer (PMUT) arrays for integrated sensing, actuation and imaging. *Sensors*, **2015**, 15, 8020-41	3.8	163
182	Independent trapping and manipulation of microparticles using dexterous acoustic tweezers. *Applied Physics Letters*, **2014**, 104, 154103	3.4	135
181	Mechanical evidence of the orbital angular momentum to energy ratio of vortex beams. *Physical Review Letters*, **2012**, 108, 194301	7.4	116
180	Dexterous manipulation of microparticles using Bessel-function acoustic pressure fields. *Applied Physics Letters*, **2013**, 102, 123508	3.4	100
179	Array-controlled ultrasonic manipulation of particles in planar acoustic resonator. *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, **2012**, 59, 1258-66	3.2	70
178	1-3 connectivity piezoelectric ceramic-polymer composite transducers made with viscous polymer processing for high frequency ultrasound. *Ultrasonics*, **2004**, 42, 479-84	3.5	66
177	Acoustic tractor beam. *Physical Review Letters*, **2014**, 112, 174302	7.4	58
176	Manipulation of microparticles using phase-controllable ultrasonic standing waves. *Journal of the Acoustical Society of America*, **2010**, 128, EL195-9	2.2	57
175	Intraoperative Ultrasound-Guided Resection of Gliomas: A Meta-Analysis and Review of the Literature. *World Neurosurgery*, **2016**, 92, 255-263	2.1	53
174	Resonance tracking and vibration stablilization for high power ultrasonic transducers. *Ultrasonics*, **2014**, 54, 187-94	3.5	49
173	Ultrasound assisted particle and cell manipulation on-chip. *Advanced Drug Delivery Reviews*, **2013**, 65, 1600-10	18.5	48
172	Acoustic devices for particle and cell manipulation and sensing. *Sensors*, **2014**, 14, 14806-38	3.8	43
171	Intelligent magnetic manipulation for gastrointestinal ultrasound. *Science Robotics*, **2019**, 4,	18.6	40
170	Periodic shock-emission from acoustically driven cavitation clouds: a source of the subharmonic signal. *Ultrasonics*, **2014**, 54, 2151-8	3.5	38
169	Ultrasound-mediated targeted drug delivery with a novel cyclodextrin-based drug carrier by mechanical and thermal mechanisms. *Journal of Controlled Release*, **2013**, 170, 316-24	11.7	38
168	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	5.1	38
167	Echogenic regional anaesthesia needles: a comparison study in Thiel cadavers. *Ultrasound in Medicine and Biology*, **2012**, 38, 702-7	3.5	36

166	Optically transparent piezoelectric transducer for ultrasonic particle manipulation. *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, **2014**, 61, 389-91	3.2	30
165	An evaluation of Thiel-embalmed cadavers for ultrasound-based regional anaesthesia training and research. *Ultrasound*, **2010**, 18, 125-129	1.3	28
164	Development of a Mechanical Scanning Device With High-Frequency Ultrasound Transducer for Ultrasonic Capsule Endoscopy. *IEEE Transactions on Medical Imaging*, **2017**, 36, 1922-1929	11.7	26
163	Tunable beam shaping with a phased array acousto-optic modulator. *Optics Express*, **2015**, 23, 26-32	3.3	25
162	Investigation of dental samples using a 35MHz focussed ultrasound piezocomposite transducer. *Ultrasonics*, **2009**, 49, 212-8	3.5	24
161	Gastrointestinal diagnosis using non-white light imaging capsule endoscopy. *Nature Reviews Gastroenterology and Hepatology*, **2019**, 16, 429-447	24.2	23
160	Thick aluminium nitride films deposited by room-temperature sputtering for ultrasonic applications. *Ultrasonics*, **2004**, 42, 485-90	3.5	22
159	Quantitative assessment of Thiel soft-embalmed human cadavers using shear wave elastography. *Annals of Anatomy*, **2015**, 202, 52-6	2.9	21
158	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, 1911-21	3.2	20
157	Translation of sonoelastography from Thiel cadaver to patients for peripheral nerve blocks. *Anaesthesia*, **2012**, 67, 721-8	6.6	19
156	Net-shape ceramic processing as a route to ultrafine scale 1-3 connectivity piezoelectric ceramic-polymer composite transducers		19
155	Light sheet microscopy with acoustic sample confinement. *Nature Communications*, **2019**, 10, 669	17.4	17
154	Characterization of piezocrystals for practical configurations with temperature- and pressure-dependent electrical impedance spectroscopy. *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, **2011**, 58, 1793-803	3.2	17
153	Multimodal Integrated Sensor Platform for Rapid Biomarker Detection. *IEEE Transactions on Biomedical Engineering*, **2020**, 67, 614-623	5	17
152	Application of gel-casting to the fabrication of 1□3 piezoelectric ceramic□polymer composites for high-frequency ultrasound devices. *Journal of Micromechanics and Microengineering*, **2012**, 22, 125001	2	16
151	1-3 connectivity lithium niobate composites for high temperature operation. *Ultrasonics*, **2007**, 47, 15-22	3.5	15
150	Piezoelectric 1□3 Composites for High Frequency Ultrasonic Transducer Applications. *Ferroelectrics*, **2004**, 304, 201-205	0.6	15
149	Ultrasound capsule endoscopy: sounding out the future. *Annals of Translational Medicine*, **2017**, 5, 201	3.2	15

148	Functional Piezocrystal Characterisation under Varying Conditions. *Materials*, **2015**, 8, 8304-8326	3.5	14
147	In Vitro Investigation of the Individual Contributions of Ultrasound-Induced Stable and Inertial Cavitation in Targeted Drug Delivery. *Ultrasound in Medicine and Biology*, **2015**, 41, 1853-64	3.5	14
146	A Prototype Therapeutic Capsule Endoscope for Ultrasound-Mediated Targeted Drug Delivery. *Journal of Medical Robotics Research*, **2018**, 03, 1840001	1.1	13
145	In-Vivo Evaluation of Microultrasound and Thermometric Capsule Endoscopes. *IEEE Transactions on Biomedical Engineering*, **2019**, 66, 632-639	5	13
144	Directed jetting from collapsing cavities exposed to focused ultrasound. *Applied Physics Letters*, **2012**, 100, 024104	3.4	13
143	Increased variability in Apc(Min)/+ intestinal tissue can be measured with microultrasound. *Scientific Reports*, **2016**, 6, 29570	4.9	12
142	Ultrasonics Part 12. Fundamentals of ultrasonic phased arrays. *Insight: Non-Destructive Testing and Condition Monitoring*, **2006**, 48, 212-217	1.3	12
141	Screen-printed ultrasonic 2-D matrix array transducers for microparticle manipulation. *Ultrasonics*, **2015**, 62, 136-46	3.5	11
140	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	3.2	11
139	Lithium niobate transducers for MRI-guided ultrasonic microsurgery. *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, **2011**, 58, 1570-6	3.2	11
138	Mathematical optimization of multilayer piezoelectric devices with nonuniform layers by simulated annealing. *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, **2007**, 54, 1920-9	3.2	11
137	Progress towards ultrasound applications of new single crystal materials. *Journal of Materials Science: Materials in Electronics*, **2004**, 15, 715-720	2.1	11
136	Luminally expressed gastrointestinal biomarkers. *Expert Review of Gastroenterology and Hepatology* , **2017**, 11, 1119-1134	4.2	10
135	Ultrabroadband single crystal composite transducers for underwater ultrasound		10
134	Modelling and characterisation of a ultrasound-actuated needle for improved visibility in ultrasound-guided regional anaesthesia and tissue biopsy. *Ultrasonics*, **2016**, 69, 38-46	3.5	9
133	Acoustic Sensing and Ultrasonic Drug Delivery in Multimodal Theranostic Capsule Endoscopy. *Sensors*, **2017**, 17,	3.8	9
132	Shear wave elastography: novel technology for ultrasound-guided regional anesthesia. *Anesthesiology*, **2013**, 119, 698	4.3	9
131	Material parameter variations of lead metaniobate piezoceramic in elevated temperature applications. *Electronics Letters*, **2008**, 44, 940	1.1	9

130	Comparison of y/36°-cut and z-cut lithium niobate composites for high temperature ultrasonic applications. *Nondestructive Testing and Evaluation*, **2005**, 20, 77-87	2	9
129	Ultrasound-mediated targeted drug delivery generated by multifocal beam patterns: an in vitro study. *Ultrasound in Medicine and Biology*, **2013**, 39, 507-14	3.5	8
128	A randomised, single-blind technical study comparing the ultrasonic visibility of smooth-surfaced and textured needles in a soft embalmed cadaver model. *Anaesthesia*, **2015**, 70, 537-42	6.6	8
127	The importance of physics to progress in medical treatment. *Lancet, The*, **2012**, 379, 1534-43	40	8
126	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, 353-62	3.2	8
125	Common acoustic phonon lifetimes in inorganic and hybrid lead halide perovskites. *Physical Review Materials*, **2019**, 3,	3.2	8
124	Progress towards a multi-modal capsule endoscopy device featuring microultrasound imaging **2016**,		8
123	Open-source, high-throughput ultrasound treatment chamber. *Biomedizinische Technik*, **2015**, 60, 77-87	1.3	7
122	Characterization of an epoxy filler for piezocomposites compatible with microfabrication processes. *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, **2011**, 58, 2743-8	3.2	7
121	Piezocrystal-polymer composites: new materials for transducers for ultrasonic NDT. *Insight: Non-Destructive Testing and Condition Monitoring*, **2004**, 46, 653-657	1.3	7
120	Imaging with lithium niobate/epoxy composites. *Ultrasonics*, **2004**, 42, 439-42	3.5	7
119	Ultrasonic thin film transducers for high-temperature NDT. *Insight: Non-Destructive Testing and Condition Monitoring*, **2005**, 47, 85-87	1.3	7
118	Thin Film PZT-Based PMUT Arrays for Deterministic Particle Manipulation. *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, **2019**, 66, 1606-1615	3.2	6
117	Synthesis and inclusion study of a novel β-cyclodextrin derivative as a potential thermo-sensitive carrier for doxorubicin. *Chemical and Pharmaceutical Bulletin*, **2014**, 62, 627-35	1.9	6
116	Piezoelectricity and basic configurations for piezoelectric ultrasonic transducers **2012**, 3-35		6
115	Microfabrication of electrode patterns for high-frequency ultrasound transducer arrays. *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, **2012**, 59, 1820-9	3.2	6
114	1-3 piezocomposite design optimised for high frequency kerfless transducer arrays **2009**,		6
113	Concepts and issues in piezo-on-3D silicon structures. *Sensor Review*, **2009**, 29, 326-332	1.4	6

112	Loss effects on adhesively-bonded multilayer ultrasonic transducers by self-heating. *Ultrasonics*, **2010**, 50, 508-11	3.5	6
111	Net-shape ceramic manufacturing as an aid to realize ultrasonic transducers for high-resolution medical imaging		6
110	Multilayer piezocomposite structures with piezoceramic volume fractions determined by mathematical optimisation. *Ultrasonics*, **2004**, 42, 259-65	3.5	6
109	Ultrasound Capsule Endoscopy With a Mechanically Scanning Micro-ultrasound: A Porcine Study. *Ultrasound in Medicine and Biology*, **2020**, 46, 796-804	3.5	6
108	A Learning-Based Microultrasound System for the Detection of Inflammation of the Gastrointestinal Tract. *IEEE Transactions on Medical Imaging*, **2021**, 40, 38-47	11.7	6
107	Ultrasound mediated delivery of quantum dots from a proof of concept capsule endoscope to the gastrointestinal wall. *Scientific Reports*, **2021**, 11, 2584	4.9	6
106	High-performance planar ultrasonic tool based on d□mode piezocrystal. *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, **2015**, 62, 428-38	3.2	5
105	Microultrasound characterisation of ex vivo porcine tissue for ultrasound capsule endoscopy. *Journal of Physics: Conference Series*, **2017**, 797, 012003	0.3	5
104	High-power characterization of a microcutter actuated by PMN-PT piezocrystals. *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, **2015**, 62, 1957-67	3.2	5
103	Reduced penetration force through ultrasound activation of a standard needle: An experimental and computational study **2013**,		5
102	Transducer arrays for ultrasonic particle manipulation **2010**,		5
101	Ultrasound activated nano-encapsulated targeted drug delivery and tumour cell poration. *Advances in Experimental Medicine and Biology*, **2012**, 733, 135-44	3.6	5
100	Functional characterisation of high frequency arrays based on micro-moulded 1□ piezocomposites **2009**,		5
99	Progress towards wafer-scale fabrication of ultrasound arrays for real-time high-resolution biomedical imaging. *Sensor Review*, **2009**, 29, 333-338	1.4	5
98	Characterisation of an epoxy filler for piezocomposite material compatible with microfabrication processes **2008**,		5
97	2F-6 Properties and Application-Oriented Performance of High Frequency Piezocomposite Ultrasonic Transducers. *Proceedings IEEE Ultrasonics Symposium*, **2007**,		5
96	2F-5 Surface Preparation of 1-3 Piezocomposite Material for Microfabrication of High Frequency Transducer Arrays. *Proceedings IEEE Ultrasonics Symposium*, **2007**,		5
95	Lithium niobate piezocomposite phased arrays operating at high temperatures. *Insight: Non-Destructive Testing and Condition Monitoring*, **2004**, 46, 662-665	1.3	5

94	Dual Orientation 16-MHz Single-Element Ultrasound Needle Transducers for Image-Guided Neurosurgical Intervention. *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, **2016**, 63, 233-44	3.2	4
93	Design and simulation of a high-frequency ring-shaped linear array for capsule ultrasound endoscopy **2014**,		4
92	Early exploration of MRI-compatible diagnostic ultrasound transducers **2010**,		4
91	**2011**,		4
90	Operation of a high frequency piezoelectric ultrasound array with an application specific integrated circuit **2009**,		4
89	Focused ultrasound for early detection of tooth decay **2009**,		4
88	Modelling ultrasonic-transducer performance: one-dimensional models **2012**, 187-219		4
87	Application of sonoelastography to regional anaesthesia: a descriptive study with the Thiel embalmed cadaver model. *Ultrasound*, **2012**, 20, 41-48	1.3	4
86	Micromachined diaphragm transducers for miniaturised ultrasound arrays **2012**,		4
85	Micro-moulded randomised piezocomposites for high frequency ultrasound imaging **2012**,		4
84	Determining moisture content in concrete under simulated precipitation using ultrasonic propagation time measurements. *Nondestructive Testing and Evaluation*, **2008**, 23, 241-255	2	4
83	5B-2 3D Imaging of Teeth Using High Frequency Ultrasound **2007**,		4
82	Experimental investigation of alternative pre-stress components for a 3-1 connectivity multilayer piezoelectric-polymer composite ultrasonic transducer. *Ultrasonics*, **2002**, 40, 913-9	3.5	4
81	Implementation of multilayer ultrasonic transducer structures with optimized non-uniform layer thicknesses		4
80	Growth of sputtered AlN thin film on glass in room temperature		4
79	Challenges in developing collaborative interdisciplinary research between gastroenterologists and engineers. *Journal of Medical Engineering and Technology*, **2018**, 42, 435-442	1.8	4
78	High Resolution Microultrasound (US) Investigation of the Gastrointestinal (GI) Tract. *Methods in Molecular Biology*, **2017**, 1572, 541-561	1.4	3
77	Spin-wave directional anisotropies in antiferromagnetic Ba3NbFe3Si2O14. *Physical Review B*, **2019**, 100,	3.3	3

76	Design and Characterization of an Ultrasonic Surgical Tool Using d31 PMN-PT Plate. *Physics Procedia*, **2015**, 63, 182-188		3
75	Introduction of a Measurement Setup to Monitor the Pressure Applied During Handheld Ultrasound Elastography. *Ultrasound in Medicine and Biology*, **2020**, 46, 2556-2559	3.5	3
74	Imitation of spin density wave order in Cu3Nb2O8. *Physical Review B*, **2020**, 102,	3.3	3
73	Development of a therapeutic capsule endoscope for treatment in the gastrointestinal tract: Bench testing to translational trial **2017**,		3
72	Capsule-based ultrasound-mediated targeted gastrointestinal drug delivery **2015**,		3
71	**2014**,		3
70	A sonic screwdriver: Acoustic angular momentum transfer for ultrasonic manipulation **2011**,		3
69	Future integration of silicon electronics with miniature piezoelectric ultrasonic transducers and arrays **2010**,		3
68	**2009**,		3
67	Ultrasonic cutting with resonance tracking and vibration stabilization **2012**,		3
66	A modular FPGA-based ultrasonic array system for applications including non-destructive testing. *Insight: Non-Destructive Testing and Condition Monitoring*, **2008**, 50, 74-77	1.3	3
65	Fundamental performance characterisation of high frequency piezocomposites made with net-shape viscous polymer processing for medical ultrasound transducers **2008**,		3
64	4F-4 Parametric Array Design and Characterisation for Underwater Sonar and Medical Strain Imaging Applications **2007**,		3
63	Investigation of crack sizing using ultrasonic phased arrays with signal processing techniques. *Insight: Non-Destructive Testing and Condition Monitoring*, **2006**, 48, 80-83	1.3	3
62	Towards the Automatic Interpretation of Ultrasonic Non-Destructive Testing Data through the Application of Image-Thresholding and Region-Growing Segmentation. *Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture*, **2006**, 220, 1011-1016	2.4	3
61	P3K-5 Passive Materials for High Frequency Ultrasound Components. *Proceedings IEEE Ultrasonics Symposium*, **2007**,		3
60	A highly compact packaging concept for ultrasound transducer arrays embedded in neurosurgical needles. *Microsystem Technologies*, **2017**, 23, 3881-3891	1.7	2
59	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	3.9	2

58	Alignment of an acoustic manipulation device with cepstral analysis of electronic impedance data. *Ultrasonics*, **2015**, 56, 172-7	3.5	2
57	**2016**,		2
56	Functional characterization of piezocrystals monitored under high power driving conditions **2015**,		2
55	Enhanced US-guided needle intervention through ultrasound actuation of a standard needle **2014**,		2
54	Hybrid optical and acoustic force based sorting **2014**,		2
53	Automatic estimation of elasticity parameters in breast tissue **2014**,		2
52	Automatic frequency tracking system for needle actuating device **2014**,		2
51	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	2
50	Investigation of Elevated Temperature Effects on Multiple Layer Piezoelectric Ultrasonic Transducers with Adhesive Bondlines by Self-Heating **2010**,		2
49	Design, manufacturing and packaging of high frequency micro ultrasonic transducers for medical applications **2011**,		2
48	Focusing through the rib cage for MR-guided transcostal FUS **2012**,		2
47	P3Q-1 Ultra Precision Grinding in the Fabrication of High Frequency Piezocomposite Ultrasonic Transducers **2006**,		2
46	Condition monitoring with ultrasonic arrays at elevated temperatures. *Insight: Non-Destructive Testing and Condition Monitoring*, **2003**, 45, 130-133	1.3	2
45	Multi-Channel Signal-Generator ASIC for Acoustic Holograms. *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, **2020**, 67, 49-56	3.2	2
44	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	3.2	2
43	2-D crossed-electrode transducer arrays for ultrasonic particle manipulation **2016**,		2
42	Loss characterisation of piezocrystals under elevated environmental conditions **2016**,		2
41	Ultrasound facilitated marking of gastrointestinal tissue with fluorescent material **2016**,		2

40	Ultrasound and Microbubbles Promote the Retention of Fluorescent Compounds in the Small Intestine **2018**,		2
39	. *IEEE Access*, **2021**, 9, 94386-94397	3.5	2
38	Twisting waves increase the visibility of nonlinear behaviour. *New Journal of Physics*, **2020**, 22, 063021	2.9	1
37	Glass-windowed ultrasound transducers. *Ultrasonics*, **2016**, 68, 108-19	3.5	1
36	Improved Performance of -Mode Needle-Actuating Transducer With PMN-PT Piezocrystal. *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, **2018**, 65, 1415-1422	3.2	1
35	Ultrasound beam distortion and pressure reduction in transcostal focused ultrasound surgery. *Applied Acoustics*, **2014**, 76, 337-345	3.1	1
34	Development of a therapeutic capsule endoscope for treatment in the gastrointestinal Tract: Bench testing to translational trial **2017**,		1
33	Ex-vivo navigation of neurosurgical biopsy needles using microultrasound transducers with M-mode imaging **2015**,		1
32	Advanced electrical array interconnections for ultrasound probes integrated in surgical needles **2014**,		1
31	15 MHz single element ultrasound needle transducers for neurosurgical applications **2014**,		1
30	Customized modular multichannel electronics for ultrasound-mediated targeted drug delivery with a geodesic piezocrystal phased array **2014**,		1
29	Effects of power levels and soft tissue loads on an ultrasonic planar tool driven by PMN-PT d31 plates **2013**,		1
28	**2011**,		1
27	Lithium niobate ultrasound transducers for high-resolution focused ultrasound surgery **2010**,		1
26	The development of therapeutic ultrasound with assistance of robotic manipulator. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2009**, 2009, 733-6	0.9	1
25	The sonic screwdriver: a model system for study of wave angular momentum **2011**,		1
24	Multi-wavelength ultrasonic standing wave device for non-invasive cell manipulation and characterisation **2011**,		1
23	Focused ultrasound ablation using real time ultrasound image guidance **2011**,		1

22	Design and fabrication of PMN-PT based high frequency ultrasound imaging devices integrated into medical interventional tools **2011**,		1
21	Particle manipulation in a microfluidic channel with an electronically controlled linear piezoelectric array **2012**,		1
20	Investigating the motility of Dictyostelium discodeum using high frequency ultrasound as a method of manipulation **2012**,		1
19	The development of a robotic approach to therapeutic ultrasound. *Journal of Physics: Conference Series*, **2009**, 181, 012017	0.3	1
18	Spatial response of symmetric and asymmetric planar SQUID gradiometers. *IEEE Transactions on Applied Superconductivity*, **1997**, 7, 3220-3223	1.8	1
17	Characterisation of self-heating effects on multilayer ultrasonic transducers with adhesive bondlines. *Electronics Letters*, **2008**, 44, 1333	1.1	1
16	4F-2 Effects of Increasing Environmental Temperature on the Practical Performance of PMN-PT and PZN-PT Single Crystals. *Proceedings IEEE Ultrasonics Symposium*, **2007**,		1
15	Nondestructive and destructive investigation of bondlines for high-power multilayer ultrasonic transducers for underwater sonar		1
14	An Organoid-derived Cell Layer as an in vitro Model for US-mediated Drug Delivery Studies **2020**,		1
13	Design of Nanoparticles for Focused Ultrasound Drug Delivery **2019**, 205-239		1
12	Implementation of a PMN-PT piezocrystal-based focused array with geodesic faceted structure. *Ultrasonics*, **2016**, 69, 137-43	3.5	1
11	Integrated Front End Circuitry for Microultrasound Capsule Endoscopy **2018**,		1
10	An area-efficient hybrid high-voltage charge pump design for IoT applications **2018**,		1
9	Imaging Fluorophore-Labelled Intestinal Tissue via Fluorescence Endoscope Capsule. *Proceedings (mdpi)*, **2018**, 2, 766	0.3	1
8	Images in anesthesiology: shear wave elastography: novel technology for ultrasound-guided regional anesthesia. *Anesthesiology*, **2013**, 119, 698	4.3	1
7	The Performance of Piezoelectric Materials Under Stress **2017**, 787-814		0
6	Automated performance assessment of ultrasound systems using a dynamic phantom. *Ultrasound*, **2014**, 22, 199-204	1.3	0
5	Ultrasound technology for capsule endoscopy **2022**, 215-240		0

4	Investigating post-processing of phased array data for detection and sizing capabilities using incoherent compounding. *Insight: Non-Destructive Testing and Condition Monitoring*, **2006**, 48, 228-232	1.3
3	2D ultrasonic arrays with low-voltage operation for high density electronics. *Insight: Non-Destructive Testing and Condition Monitoring*, **2006**, 48, 94-97	1.3
2	Characterisation and modelling of multilayer ultrasonic transducers with non-uniform bondlines. *Electronics Letters*, **2005**, 41, 880	1.1
1	Circuits and Systems for Biosensing with Microultrasound **2018**, 187-209	