

Sandy Cochran

List of Publications by Year in Descending Order

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

183
papers

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	Ultrasound technology for capsule endoscopy 2022 , 215-240		0
182	Full Set of Material Properties of Lead-Free PIC 700 for Transducer Designers. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2021 , 68, 1797-1807	3.2	2
181	A Learning-Based Microultrasound System for the Detection of Inflammation of the Gastrointestinal Tract. <i>IEEE Transactions on Medical Imaging</i> , 2021 , 40, 38-47	11.7	6
180	. <i>IEEE Access</i> , 2021 , 9, 94386-94397	3.5	2
179	Ultrasound mediated delivery of quantum dots from a proof of concept capsule endoscope to the gastrointestinal wall. <i>Scientific Reports</i> , 2021 , 11, 2584	4.9	6
178	Introduction of a Measurement Setup to Monitor the Pressure Applied During Handheld Ultrasound Elastography. <i>Ultrasound in Medicine and Biology</i> , 2020 , 46, 2556-2559	3.5	3
177	Imitation of spin density wave order in Cu ₃ Nb ₂ O ₈ . <i>Physical Review B</i> , 2020 , 102,	3.3	3
176	Twisting waves increase the visibility of nonlinear behaviour. <i>New Journal of Physics</i> , 2020 , 22, 063021	2.9	1
175	An Organoid-derived Cell Layer as an in vitro Model for US-mediated Drug Delivery Studies 2020 ,		1
174	Multi-Channel Signal-Generator ASIC for Acoustic Holograms. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2020 , 67, 49-56	3.2	2
173	Ultrasound Capsule Endoscopy With a Mechanically Scanning Micro-ultrasound: A Porcine Study. <i>Ultrasound in Medicine and Biology</i> , 2020 , 46, 796-804	3.5	6
172	Multimodal Integrated Sensor Platform for Rapid Biomarker Detection. <i>IEEE Transactions on Biomedical Engineering</i> , 2020 , 67, 614-623	5	17
171	Spin-wave directional anisotropies in antiferromagnetic Ba ₃ NbFe ₃ Si ₂ O ₁₄ . <i>Physical Review B</i> , 2019 , 100,	3.3	3
170	Gastrointestinal diagnosis using non-white light imaging capsule endoscopy. <i>Nature Reviews Gastroenterology and Hepatology</i> , 2019 , 16, 429-447	24.2	23
169	Light sheet microscopy with acoustic sample confinement. <i>Nature Communications</i> , 2019 , 10, 669	17.4	17
168	In-Vivo Evaluation of Microultrasound and Thermometric Capsule Endoscopes. <i>IEEE Transactions on Biomedical Engineering</i> , 2019 , 66, 632-639	5	13
167	Thin Film PZT-Based PMUT Arrays for Deterministic Particle Manipulation. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2019 , 66, 1606-1615	3.2	6

166	Intelligent magnetic manipulation for gastrointestinal ultrasound. <i>Science Robotics</i> , 2019 , 4,	18.6	40
165	Common acoustic phonon lifetimes in inorganic and hybrid lead halide perovskites. <i>Physical Review Materials</i> , 2019 , 3,	3.2	8
164	Design of Nanoparticles for Focused Ultrasound Drug Delivery 2019 , 205-239		1
163	Design and Simulation of a Ring-Shaped Linear Array for Microultrasound Capsule Endoscopy. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2018 , 65, 589-599	3.2	11
162	A Prototype Therapeutic Capsule Endoscope for Ultrasound-Mediated Targeted Drug Delivery. <i>Journal of Medical Robotics Research</i> , 2018 , 03, 1840001	1.1	13
161	Improved Performance of -Mode Needle-Actuating Transducer With PMN-PT Piezocrystal. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2018 , 65, 1415-1422	3.2	1
160	Circuits and Systems for Biosensing with Microultrasound 2018 , 187-209		
159	In Vivo Characterization of a Wireless Telemetry Module for a Capsule Endoscopy System Utilizing a Conformal Antenna. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2018 , 12, 95-105	5.1	38
158	Ultrasound and Microbubbles Promote the Retention of Fluorescent Compounds in the Small Intestine 2018 ,		2
157	Challenges in developing collaborative interdisciplinary research between gastroenterologists and engineers. <i>Journal of Medical Engineering and Technology</i> , 2018 , 42, 435-442	1.8	4
156	Integrated Front End Circuitry for Microultrasound Capsule Endoscopy 2018 ,		1
155	An area-efficient hybrid high-voltage charge pump design for IoT applications 2018 ,		1
154	Imaging Fluorophore-Labelled Intestinal Tissue via Fluorescence Endoscope Capsule. <i>Proceedings (mdpi)</i> , 2018 , 2, 766	0.3	1
153	A highly compact packaging concept for ultrasound transducer arrays embedded in neurosurgical needles. <i>Microsystem Technologies</i> , 2017 , 23, 3881-3891	1.7	2
152	First step to facilitate long-term and multi-centre studies of shear wave elastography in solid breast lesions using a computer-assisted algorithm. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2017 , 12, 1533-1542	3.9	2
151	Development of a Mechanical Scanning Device With High-Frequency Ultrasound Transducer for Ultrasonic Capsule Endoscopy. <i>IEEE Transactions on Medical Imaging</i> , 2017 , 36, 1922-1929	11.7	26
150	High Resolution Microultrasound (US) Investigation of the Gastrointestinal (GI) Tract. <i>Methods in Molecular Biology</i> , 2017 , 1572, 541-561	1.4	3
149	Luminally expressed gastrointestinal biomarkers. <i>Expert Review of Gastroenterology and Hepatology</i> , 2017 , 11, 1119-1134	4.2	10

148	Development of a therapeutic capsule endoscope for treatment in the gastrointestinal tract: Bench testing to translational trial 2017 ,		3
147	Development of a therapeutic capsule endoscope for treatment in the gastrointestinal Tract: Bench testing to translational trial 2017 ,		1
146	The Performance of Piezoelectric Materials Under Stress 2017 , 787-814		0
145	Acoustic Sensing and Ultrasonic Drug Delivery in Multimodal Theranostic Capsule Endoscopy. <i>Sensors</i> , 2017 , 17,	3.8	9
144	Microultrasound characterisation of ex vivo porcine tissue for ultrasound capsule endoscopy. <i>Journal of Physics: Conference Series</i> , 2017 , 797, 012003	0.3	5
143	Ultrasound capsule endoscopy: sounding out the future. <i>Annals of Translational Medicine</i> , 2017 , 5, 201	3.2	15
142	2016 ,		2
141	Increased variability in Apc(Min)/+ intestinal tissue can be measured with microultrasound. <i>Scientific Reports</i> , 2016 , 6, 29570	4.9	12
140	Modelling and characterisation of a ultrasound-actuated needle for improved visibility in ultrasound-guided regional anaesthesia and tissue biopsy. <i>Ultrasonics</i> , 2016 , 69, 38-46	3.5	9
139	Dual Orientation 16-MHz Single-Element Ultrasound Needle Transducers for Image-Guided Neurosurgical Intervention. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2016 , 63, 233-44	3.2	4
138	Glass-windowed ultrasound transducers. <i>Ultrasonics</i> , 2016 , 68, 108-19	3.5	1
137	2-D crossed-electrode transducer arrays for ultrasonic particle manipulation 2016 ,		2
136	Loss characterisation of piezocrystals under elevated environmental conditions 2016 ,		2
135	Ultrasound facilitated marking of gastrointestinal tissue with fluorescent material 2016 ,		2
134	Progress towards a multi-modal capsule endoscopy device featuring microultrasound imaging 2016 ,		8
133	Intraoperative Ultrasound-Guided Resection of Gliomas: A Meta-Analysis and Review of the Literature. <i>World Neurosurgery</i> , 2016 , 92, 255-263	2.1	53
132	Implementation of a PMN-PT piezocrystal-based focused array with geodesic faceted structure. <i>Ultrasonics</i> , 2016 , 69, 137-43	3.5	1
131	Open-source, high-throughput ultrasound treatment chamber. <i>Biomedizinische Technik</i> , 2015 , 60, 77-87	1.3	7

130	Screen-printed ultrasonic 2-D matrix array transducers for microparticle manipulation. <i>Ultrasonics</i> , 2015 , 62, 136-46	3.5	11
129	Piezoelectric micromachined ultrasound transducer (PMUT) arrays for integrated sensing, actuation and imaging. <i>Sensors</i> , 2015 , 15, 8020-41	3.8	163
128	High-performance planar ultrasonic tool based on d ₃₁ mode piezocrystal. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2015 , 62, 428-38	3.2	5
127	Tunable beam shaping with a phased array acousto-optic modulator. <i>Optics Express</i> , 2015 , 23, 26-32	3.3	25
126	Design and Characterization of an Ultrasonic Surgical Tool Using d ₃₁ PMN-PT Plate. <i>Physics Procedia</i> , 2015 , 63, 182-188		3
125	Quantitative assessment of Thiel soft-embalmed human cadavers using shear wave elastography. <i>Annals of Anatomy</i> , 2015 , 202, 52-6	2.9	21
124	Alignment of an acoustic manipulation device with cepstral analysis of electronic impedance data. <i>Ultrasonics</i> , 2015 , 56, 172-7	3.5	2
123	A randomised, single-blind technical study comparing the ultrasonic visibility of smooth-surfaced and textured needles in a soft embalmed cadaver model. <i>Anaesthesia</i> , 2015 , 70, 537-42	6.6	8
122	Ex-vivo navigation of neurosurgical biopsy needles using microultrasound transducers with M-mode imaging 2015 ,		1
121	Functional Piezocrystal Characterisation under Varying Conditions. <i>Materials</i> , 2015 , 8, 8304-8326	3.5	14
120	In Vitro Investigation of the Individual Contributions of Ultrasound-Induced Stable and Inertial Cavitation in Targeted Drug Delivery. <i>Ultrasound in Medicine and Biology</i> , 2015 , 41, 1853-64	3.5	14
119	High-power characterization of a microcutter actuated by PMN-PT piezocrystals. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2015 , 62, 1957-67	3.2	5
118	Functional characterization of piezocrystals monitored under high power driving conditions 2015 ,		2
117	Capsule-based ultrasound-mediated targeted gastrointestinal drug delivery 2015 ,		3
116	Independent trapping and manipulation of microparticles using dexterous acoustic tweezers. <i>Applied Physics Letters</i> , 2014 , 104, 154103	3.4	135
115	Acoustic tractor beam. <i>Physical Review Letters</i> , 2014 , 112, 174302	7.4	58
114	Ultrasound beam distortion and pressure reduction in transcostal focused ultrasound surgery. <i>Applied Acoustics</i> , 2014 , 76, 337-345	3.1	1
113	Periodic shock-emission from acoustically driven cavitation clouds: a source of the subharmonic signal. <i>Ultrasonics</i> , 2014 , 54, 2151-8	3.5	38

112	Synthesis and inclusion study of a novel Cyclodextrin derivative as a potential thermo-sensitive carrier for doxorubicin. <i>Chemical and Pharmaceutical Bulletin</i> , 2014 , 62, 627-35	1.9	6
111	Enhanced US-guided needle intervention through ultrasound actuation of a standard needle 2014 ,		2
110	Mass-spring matching layers for high-frequency ultrasound transducers: a new technique using vacuum deposition. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2014 , 61, 1911-21	3.2	20
109	Acoustic devices for particle and cell manipulation and sensing. <i>Sensors</i> , 2014 , 14, 14806-38	3.8	43
108	Optically transparent piezoelectric transducer for ultrasonic particle manipulation. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2014 , 61, 389-91	3.2	30
107	Hybrid optical and acoustic force based sorting 2014 ,		2
106	Automatic estimation of elasticity parameters in breast tissue 2014 ,		2
105	Advanced electrical array interconnections for ultrasound probes integrated in surgical needles 2014 ,		1
104	15 MHz single element ultrasound needle transducers for neurosurgical applications 2014 ,		1
103	Customized modular multichannel electronics for ultrasound-mediated targeted drug delivery with a geodesic piezocrystal phased array 2014 ,		1
102	Design and simulation of a high-frequency ring-shaped linear array for capsule ultrasound endoscopy 2014 ,		4
101	2014 ,		3
100	Automatic frequency tracking system for needle actuating device 2014 ,		2
99	Automated performance assessment of ultrasound systems using a dynamic phantom. <i>Ultrasound</i> , 2014 , 22, 199-204	1.3	0
98	Resonance tracking and vibration stabilization for high power ultrasonic transducers. <i>Ultrasonics</i> , 2014 , 54, 187-94	3.5	49
97	Ultrasound-mediated targeted drug delivery with a novel cyclodextrin-based drug carrier by mechanical and thermal mechanisms. <i>Journal of Controlled Release</i> , 2013 , 170, 316-24	11.7	38
96	Ultrasound assisted particle and cell manipulation on-chip. <i>Advanced Drug Delivery Reviews</i> , 2013 , 65, 1600-10	18.5	48
95	Ultrasound-mediated targeted drug delivery generated by multifocal beam patterns: an in vitro study. <i>Ultrasound in Medicine and Biology</i> , 2013 , 39, 507-14	3.5	8

94	Dexterous manipulation of microparticles using Bessel-function acoustic pressure fields. <i>Applied Physics Letters</i> , 2013 , 102, 123508	3.4	100
93	Effects of power levels and soft tissue loads on an ultrasonic planar tool driven by PMN-PT d31 plates 2013 ,		1
92	Reduced penetration force through ultrasound activation of a standard needle: An experimental and computational study 2013 ,		5
91	Shear wave elastography: novel technology for ultrasound-guided regional anesthesia. <i>Anesthesiology</i> , 2013 , 119, 698	4.3	9
90	Images in anesthesiology: shear wave elastography: novel technology for ultrasound-guided regional anesthesia. <i>Anesthesiology</i> , 2013 , 119, 698	4.3	1
89	Translation of sonoelastography from Thiel cadaver to patients for peripheral nerve blocks. <i>Anaesthesia</i> , 2012 , 67, 721-8	6.6	19
88	The importance of physics to progress in medical treatment. <i>Lancet, The</i> , 2012 , 379, 1534-43	4.0	8
87	Echogenic regional anaesthesia needles: a comparison study in Thiel cadavers. <i>Ultrasound in Medicine and Biology</i> , 2012 , 38, 702-7	3.5	36
86	Piezoelectricity and basic configurations for piezoelectric ultrasonic transducers 2012 , 3-35		6
85	Array-controlled ultrasonic manipulation of particles in planar acoustic resonator. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2012 , 59, 1258-66	3.2	70
84	Application of gel-casting to the fabrication of 1B piezoelectric ceramic/polymer composites for high-frequency ultrasound devices. <i>Journal of Micromechanics and Microengineering</i> , 2012 , 22, 125001	2	16
83	Mechanical evidence of the orbital angular momentum to energy ratio of vortex beams. <i>Physical Review Letters</i> , 2012 , 108, 194301	7.4	116
82	Simultaneous Measurement of Thermophysical Properties of Tissue-Mimicking Phantoms for High Intensity Focused Ultrasound (HIFU) Exposures. <i>International Journal of Thermophysics</i> , 2012 , 33, 495-504 ^{2,1}		2
81	Modelling ultrasonic-transducer performance: one-dimensional models 2012 , 187-219		4
80	Application of sonoelastography to regional anaesthesia: a descriptive study with the Thiel embalmed cadaver model. <i>Ultrasound</i> , 2012 , 20, 41-48	1.3	4
79	Focusing through the rib cage for MR-guided transcostal FUS 2012 ,		2
78	Particle manipulation in a microfluidic channel with an electronically controlled linear piezoelectric array 2012 ,		1
77	Ultrasonic cutting with resonance tracking and vibration stabilization 2012 ,		3

76	Directed jetting from collapsing cavities exposed to focused ultrasound. <i>Applied Physics Letters</i> , 2012 , 100, 024104	3.4	13
75	Microfabrication of electrode patterns for high-frequency ultrasound transducer arrays. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2012 , 59, 1820-9	3.2	6
74	Investigating the motility of Dictyostelium discoideum using high frequency ultrasound as a method of manipulation 2012 ,		1
73	Micromachined diaphragm transducers for miniaturised ultrasound arrays 2012 ,		4
72	Ultrasound activated nano-encapsulated targeted drug delivery and tumour cell poration. <i>Advances in Experimental Medicine and Biology</i> , 2012 , 733, 135-44	3.6	5
71	Micro-moulded randomised piezocomposites for high frequency ultrasound imaging 2012 ,		4
70	A sonic screwdriver: Acoustic angular momentum transfer for ultrasonic manipulation 2011 ,		3
69	Lithium niobate transducers for MRI-guided ultrasonic microsurgery. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2011 , 58, 1570-6	3.2	11
68	Characterization of piezocrystals for practical configurations with temperature- and pressure-dependent electrical impedance spectroscopy. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2011 , 58, 1793-803	3.2	17
67	Characterization of an epoxy filler for piezocomposites compatible with microfabrication processes. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2011 , 58, 2743-8	3.2	7
66	2011 ,		1
65	Design, manufacturing and packaging of high frequency micro ultrasonic transducers for medical applications 2011 ,		2
64	2011 ,		4
63	The sonic screwdriver: a model system for study of wave angular momentum 2011 ,		1
62	Multi-wavelength ultrasonic standing wave device for non-invasive cell manipulation and characterisation 2011 ,		1
61	Focused ultrasound ablation using real time ultrasound image guidance 2011 ,		1
60	Design and fabrication of PMN-PT based high frequency ultrasound imaging devices integrated into medical interventional tools 2011 ,		1
59	Investigation of Elevated Temperature Effects on Multiple Layer Piezoelectric Ultrasonic Transducers with Adhesive Bondlines by Self-Heating 2010 ,		2

58	Early exploration of MRI-compatible diagnostic ultrasound transducers 2010 ,		4
57	An evaluation of Thiel-embalmed cadavers for ultrasound-based regional anaesthesia training and research. <i>Ultrasound</i> , 2010 , 18, 125-129	1.3	28
56	Future integration of silicon electronics with miniature piezoelectric ultrasonic transducers and arrays 2010 ,		3
55	Transducer arrays for ultrasonic particle manipulation 2010 ,		5
54	Lithium niobate ultrasound transducers for high-resolution focused ultrasound surgery 2010 ,		1
53	Low-voltage coded excitation utilizing a miniaturized integrated ultrasound system employing piezoelectric 2-D arrays. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2010 , 57, 353-62	3.2	8
52	Manipulation of microparticles using phase-controllable ultrasonic standing waves. <i>Journal of the Acoustical Society of America</i> , 2010 , 128, EL195-9	2.2	57
51	Loss effects on adhesively-bonded multilayer ultrasonic transducers by self-heating. <i>Ultrasonics</i> , 2010 , 50, 508-11	3.5	6
50	Operation of a high frequency piezoelectric ultrasound array with an application specific integrated circuit 2009 ,		4
49	The development of therapeutic ultrasound with assistance of robotic manipulator. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2009 , 2009, 733-6	0.9	1
48	2009 ,		3
47	Focused ultrasound for early detection of tooth decay 2009 ,		4
46	Investigation of dental samples using a 35MHz focussed ultrasound piezocomposite transducer. <i>Ultrasonics</i> , 2009 , 49, 212-8	3.5	24
45	Functional characterisation of high frequency arrays based on micro-moulded 1 β piezocomposites 2009 ,		5
44	1 β piezocomposite design optimised for high frequency kerfless transducer arrays 2009 ,		6
43	Concepts and issues in piezo-on-3D silicon structures. <i>Sensor Review</i> , 2009 , 29, 326-332	1.4	6
42	The development of a robotic approach to therapeutic ultrasound. <i>Journal of Physics: Conference Series</i> , 2009 , 181, 012017	0.3	1
41	Progress towards wafer-scale fabrication of ultrasound arrays for real-time high-resolution biomedical imaging. <i>Sensor Review</i> , 2009 , 29, 333-338	1.4	5

40	A modular FPGA-based ultrasonic array system for applications including non-destructive testing. <i>Insight: Non-Destructive Testing and Condition Monitoring</i> , 2008 , 50, 74-77	1.3	3
39	Characterisation of an epoxy filler for piezocomposite material compatible with microfabrication processes 2008 ,		5
38	Fundamental performance characterisation of high frequency piezocomposites made with net-shape viscous polymer processing for medical ultrasound transducers 2008 ,		3
37	Characterisation of self-heating effects on multilayer ultrasonic transducers with adhesive bondlines. <i>Electronics Letters</i> , 2008 , 44, 1333	1.1	1
36	Material parameter variations of lead metaniobate piezoceramic in elevated temperature applications. <i>Electronics Letters</i> , 2008 , 44, 940	1.1	9
35	Determining moisture content in concrete under simulated precipitation using ultrasonic propagation time measurements. <i>Nondestructive Testing and Evaluation</i> , 2008 , 23, 241-255	2	4
34	Mathematical optimization of multilayer piezoelectric devices with nonuniform layers by simulated annealing. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2007 , 54, 1920-9	3.2	11
33	4F-4 Parametric Array Design and Characterisation for Underwater Sonar and Medical Strain Imaging Applications 2007 ,		3
32	1-3 connectivity lithium niobate composites for high temperature operation. <i>Ultrasonics</i> , 2007 , 47, 15-22,3,5		15
31	P3K-5 Passive Materials for High Frequency Ultrasound Components. <i>Proceedings IEEE Ultrasonics Symposium</i> , 2007 ,		3
30	2F-6 Properties and Application-Oriented Performance of High Frequency Piezocomposite Ultrasonic Transducers. <i>Proceedings IEEE Ultrasonics Symposium</i> , 2007 ,		5
29	2F-5 Surface Preparation of 1-3 Piezocomposite Material for Microfabrication of High Frequency Transducer Arrays. <i>Proceedings IEEE Ultrasonics Symposium</i> , 2007 ,		5
28	5B-2 3D Imaging of Teeth Using High Frequency Ultrasound 2007 ,		4
27	4F-2 Effects of Increasing Environmental Temperature on the Practical Performance of PMN-PT and PZN-PT Single Crystals. <i>Proceedings IEEE Ultrasonics Symposium</i> , 2007 ,		1
26	Investigation of crack sizing using ultrasonic phased arrays with signal processing techniques. <i>Insight: Non-Destructive Testing and Condition Monitoring</i> , 2006 , 48, 80-83	1.3	3
25	Ultrasonics Part 12. Fundamentals of ultrasonic phased arrays. <i>Insight: Non-Destructive Testing and Condition Monitoring</i> , 2006 , 48, 212-217	1.3	12
24	Towards the Automatic Interpretation of Ultrasonic Non-Destructive Testing Data through the Application of Image-Thresholding and Region-Growing Segmentation. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , 2006 , 220, 1011-1016	2.4	3
23	P3Q-1 Ultra Precision Grinding in the Fabrication of High Frequency Piezocomposite Ultrasonic Transducers 2006 ,		2

22	Investigating post-processing of phased array data for detection and sizing capabilities using incoherent compounding. <i>Insight: Non-Destructive Testing and Condition Monitoring</i> , 2006 , 48, 228-232	1.3	
21	2D ultrasonic arrays with low-voltage operation for high density electronics. <i>Insight: Non-Destructive Testing and Condition Monitoring</i> , 2006 , 48, 94-97	1.3	
20	Comparison of y/36°-cut and z-cut lithium niobate composites for high temperature ultrasonic applications. <i>Nondestructive Testing and Evaluation</i> , 2005 , 20, 77-87	2	9
19	Characterisation and modelling of multilayer ultrasonic transducers with non-uniform bondlines. <i>Electronics Letters</i> , 2005 , 41, 880	1.1	
18	Ultrasonic thin film transducers for high-temperature NDT. <i>Insight: Non-Destructive Testing and Condition Monitoring</i> , 2005 , 47, 85-87	1.3	7
17	Lithium niobate piezocomposite phased arrays operating at high temperatures. <i>Insight: Non-Destructive Testing and Condition Monitoring</i> , 2004 , 46, 662-665	1.3	5
16	Piezocrystal-polymer composites: new materials for transducers for ultrasonic NDT. <i>Insight: Non-Destructive Testing and Condition Monitoring</i> , 2004 , 46, 653-657	1.3	7
15	Progress towards ultrasound applications of new single crystal materials. <i>Journal of Materials Science: Materials in Electronics</i> , 2004 , 15, 715-720	2.1	11
14	Imaging with lithium niobate/epoxy composites. <i>Ultrasonics</i> , 2004 , 42, 439-42	3.5	7
13	Multilayer piezocomposite structures with piezoceramic volume fractions determined by mathematical optimisation. <i>Ultrasonics</i> , 2004 , 42, 259-65	3.5	6
12	Thick aluminium nitride films deposited by room-temperature sputtering for ultrasonic applications. <i>Ultrasonics</i> , 2004 , 42, 485-90	3.5	22
11	1-3 connectivity piezoelectric ceramic-polymer composite transducers made with viscous polymer processing for high frequency ultrasound. <i>Ultrasonics</i> , 2004 , 42, 479-84	3.5	66
10	Piezoelectric 1B Composites for High Frequency Ultrasonic Transducer Applications. <i>Ferroelectrics</i> , 2004 , 304, 201-205	0.6	15
9	Condition monitoring with ultrasonic arrays at elevated temperatures. <i>Insight: Non-Destructive Testing and Condition Monitoring</i> , 2003 , 45, 130-133	1.3	2
8	Experimental investigation of alternative pre-stress components for a 3-1 connectivity multilayer piezoelectric-polymer composite ultrasonic transducer. <i>Ultrasonics</i> , 2002 , 40, 913-9	3.5	4
7	Spatial response of symmetric and asymmetric planar SQUID gradiometers. <i>IEEE Transactions on Applied Superconductivity</i> , 1997 , 7, 3220-3223	1.8	1
6	Net-shape ceramic manufacturing as an aid to realize ultrasonic transducers for high-resolution medical imaging		6
5	Net-shape ceramic processing as a route to ultrafine scale 1-3 connectivity piezoelectric ceramic-polymer composite transducers		19

4	Implementation of multilayer ultrasonic transducer structures with optimized non-uniform layer thicknesses	4
3	Ultrabroadband single crystal composite transducers for underwater ultrasound	10
2	Nondestructive and destructive investigation of bondlines for high-power multilayer ultrasonic transducers for underwater sonar	1
1	Growth of sputtered AlN thin film on glass in room temperature	4