

List of Publications by Year in descending order

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CVDIL LAFON

#	Article	IF	CITATIONS
1	Proof of Concept: Protein Delivery into Human Erythrocytes Using Stable Cavitation. Molecular Pharmaceutics, 2022, 19, 929-935.	4.6	4
2	Locoregional therapies and their effects on the tumoral microenvironment of pancreatic ductal adenocarcinoma. World Journal of Gastroenterology, 2022, 28, 1288-1303.	3.3	10
3	Development of a Numerical Model of High-Intensity Focused Ultrasound Treatment in Mobile and Elastic Organs: Application to a Beating Heart. Ultrasound in Medicine and Biology, 2022, 48, 1215-1228.	1.5	3
4	Pancreatic Ductal Adenocarcinoma: Current and Emerging Therapeutic Uses of Focused Ultrasound. Cancers, 2022, 14, 2577.	3.7	10
5	Evaluation of Pseudorandom Sonications for Reducing Cavitation With a Clinical Neurosurgery HIFU Device. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2021, 68, 1224-1233.	3.0	4
6	Ultrasound Molecular Imaging for the Guidance of Ultrasound-Triggered Release of Liposomal Doxorubicin and Its Treatment Monitoring in an Orthotopic Prostatic Tumor Model in Rat. Ultrasound in Medicine and Biology, 2021, 47, 3420-3434.	1.5	3
7	DNA Double-Strand Breaks in Murine Mammary Tumor Cells Induced by Combined Treatment with Doxorubicin and Controlled Stable Cavitation. Ultrasound in Medicine and Biology, 2021, 47, 2941-2957.	1.5	8
8	Spectral Analysis of Tissue Displacement for Cardiac Activation Mapping: Ex-vivo Working Heart and In-vivo Study. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2021, PP, 1-1.	3.0	0
9	High Frame Rate Ultrasound for Electromechanical Wave Imaging to Differentiate Endocardial From Epicardial Myocardial Activation. Ultrasound in Medicine and Biology, 2020, 46, 405-414.	1.5	2
10	Evaluation of the Uncertainty of Passive Cavitation Measurements for Blood–Brain Barrier Disruption Monitoring. Ultrasound in Medicine and Biology, 2020, 46, 2736-2743.	1.5	1
11	Confocal lens focused piezoelectric lithotripter. Ultrasonics, 2020, 103, 106066.	3.9	2
12	Blood-brain barrier disruption in humans using an implantable ultrasound device: quantification with MR images and correlation with local acoustic pressure. Journal of Neurosurgery, 2020, 132, 875-883.	1.6	27
13	Ultrasound-Induced Blood–Spinal Cord Barrier Opening in Rabbits. Ultrasound in Medicine and Biology, 2019, 45, 2417-2426.	1.5	15
14	Cavitation-induced release of liposomal chemotherapy in orthotopic murine pancreatic cancer models: A feasibility study. Clinics and Research in Hepatology and Gastroenterology, 2019, 43, 669-681.	1.5	9
15	Safety and Feasibility of Repeated and Transient Blood–Brain Barrier Disruption by Pulsed Ultrasound in Patients with Recurrent Glioblastoma. Clinical Cancer Research, 2019, 25, 3793-3801.	7.0	232
16	In vitro potentiation of doxorubicin by unseeded controlled non-inertial ultrasound cavitation. Scientific Reports, 2019, 9, 15581.	3.3	11
17	Ultrasound-induced Cavitation enhances the efficacy of Chemotherapy in a 3D Model of Pancreatic Ductal Adenocarcinoma with its microenvironment. Scientific Reports, 2019, 9, 18916.	3.3	14
18	Parametric Shape Optimization of Lens-Focused Piezoelectric Ultrasound Transducers. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2018, 65, 844-850.	3.0	5

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19	Therapeutic Ultrasound for the Heart: State of the Art. Irbm, 2018, 39, 227-235.	5.6	7
20	Transrectal highâ€intensity focused ultrasound as focal therapy for posterior deep infiltrating endometriosis. Ultrasound in Obstetrics and Gynecology, 2018, 51, 145-146.	1.7	6
21	Ultrasonic cavitation induces necrosis and impairs growth in three-dimensional models of pancreatic ductal adenocarcinoma. PLoS ONE, 2018, 13, e0209094.	2.5	9
22	Myocardial Thermal Ablation with a Transesophageal High-Intensity Focused Ultrasound Probe: Experiments on Beating Heart Models. Ultrasound in Medicine and Biology, 2018, 44, 2625-2636.	1.5	6
23	Review on Biomedical Techniques for Imaging Electrical Impedance. Irbm, 2018, 39, 243-250.	5.6	17
24	Evaluation of a Three-Hydrophone Method for 2-D Cavitation Localization. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2018, 65, 1093-1101.	3.0	6
25	Transesophageal 2D ultrasound to 3D computed tomography registration for the guidance of a cardiac arrhythmia therapy. Physics in Medicine and Biology, 2018, 63, 155007.	3.0	7
26	Safe long-term repeated disruption of the blood-brain barrier using an implantable ultrasound device: a multiparametric study in a primate model. Journal of Neurosurgery, 2017, 126, 1351-1361.	1.6	85
27	Ultrasound-mediated ocular delivery of therapeutic agents: a review. Expert Opinion on Drug Delivery, 2017, 14, 539-550.	5.0	28
28	Doxorubicin Delivery into Tumor Cells by Stable Cavitation without Contrast Agents. Molecular Pharmaceutics, 2017, 14, 441-447.	4.6	17
29	Numerical study of a confocal ultrasonic setup for cavitation creation. Journal of the Acoustical Society of America, 2017, 141, 1953-1961.	1.1	11
30	1D multi-element CMUT arrays for ultrasound thermal therapy. AIP Conference Proceedings, 2017, , .	0.4	0
31	Ultrasound-Guided Transesophageal High-Intensity Focused Ultrasound Cardiac Ablation in a Beating Heart: A Pilot Feasibility Study in Pigs. Ultrasound in Medicine and Biology, 2016, 42, 1848-1861.	1.5	24
32	Clinical trial of blood-brain barrier disruption by pulsed ultrasound. Science Translational Medicine, 2016, 8, 343re2.	12.4	529
33	Enhancement of Fluorescent Probe Penetration into Tumors InÂVivo Using Unseeded Inertial Cavitation. Ultrasound in Medicine and Biology, 2016, 42, 1706-1713.	1.5	5
34	Unseeded Inertial Cavitation for Enhancing the Delivery ofÂChemotherapies: A Safety Study. Ultrasound in Medicine and Biology, 2016, 42, 220-231.	1.5	16
35	Ultrasound-induced opening of the blood-brain barrier to enhance temozolomide and irinotecan delivery: an experimental study in rabbits. Journal of Neurosurgery, 2016, 124, 1602-1610.	1.6	55
36	Numerical study of a confocal ultrasonic setup for creation of cavitation. AIP Conference Proceedings, 2015, , .	0.4	1

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37	Cardiac shear-wave elastography using a transesophageal transducer: application to the mapping of thermal lesions in ultrasound transesophageal cardiac ablation. Physics in Medicine and Biology, 2015, 60, 7829-7846.	3.0	21
38	Development of a confocal ultrasound device using an inertial cavitation control for transfection in-vitro. Journal of Physics: Conference Series, 2015, 656, 012003.	0.4	6
39	Spatial and Temporal Control of Cavitation Allows High In Vitro Transfection Efficiency in the Absence of Transfection Reagents or Contrast Agents. PLoS ONE, 2015, 10, e0134247.	2.5	19
40	Acousto-electrical speckle pattern in Lorentz force electrical impedance tomography. Physics in Medicine and Biology, 2015, 60, 3747-3757.	3.0	30
41	New isolated bovine colon model dedicated to colonic ESD hands-on training: development and first evaluation. Surgical Endoscopy and Other Interventional Techniques, 2015, 29, 3209-3215.	2.4	16
42	Evaluation of inertial cavitation activity in tissue through measurement of oxidative stress. Ultrasonics Sonochemistry, 2015, 26, 193-199.	8.2	9
43	Treatment of glaucoma with high intensity focused ultrasound. International Journal of Hyperthermia, 2015, 31, 292-301.	2.5	13
44	High pressure jet injection of viscous solutions for endoscopic submucosal dissection (ESD): first clinical experience. Endoscopy International Open, 2015, 03, E368-E372.	1.8	7
45	Observation of a cavitation cloud in tissue using correlation between ultrafast ultrasound images. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2015, 62, 1256-1264.	3.0	12
46	Acousto-electrical speckle pattern in Electrical Impedance Tomography. , 2014, , .		3
47	Lorentz-force hydrophone characterization. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2014, 61, 353-363.	3.0	5
48	Contribution of Inertial Cavitation in the Enhancement of InÂVitro Transscleral Drug Delivery. Ultrasound in Medicine and Biology, 2014, 40, 1216-1227.	1.5	16
49	High-pressure jet injection of viscous solutions for endoscopic submucosal dissection: a study on ex vivo pig stomachs. Surgical Endoscopy and Other Interventional Techniques, 2014, 28, 1742-1747.	2.4	18
50	A 10.5 cm Ultrasound Link for Deep Implanted Medical Devices. IEEE Transactions on Biomedical Circuits and Systems, 2014, 8, 738-750.	4.0	56
51	Therapeutic efficacy of the combination of doxorubicin-loaded liposomes with inertial cavitation generated by confocal ultrasound in AT2 Dunning rat tumour model. Journal of Drug Targeting, 2014, 22, 688-697.	4.4	17
52	Imaging of Shear Waves Induced by Lorentz Force in Soft Tissues. Physical Review Letters, 2014, 113, 038101.	7.8	20
53	Short- and Long-Term Effects on the Ciliary Body and the Aqueous Outflow Pathways of High-Intensity Focused Ultrasound Cyclocoagulation. Ultrasound in Medicine and Biology, 2014, 40, 2096-2106.	1.5	41
54	Non-invasive Magnetic Resonance Imaging Follow-up of Sono-sensitive Liposome Tumor Delivery and Controlled Release After High-Intensity Focused Ultrasound. Ultrasound in Medicine and Biology, 2013, 39, 2342-2350.	1.5	13

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55	Ultrasound-guided transesophageal HIFU exposures for atrial fibrillation treatment: First animal experiment. Irbm, 2013, 34, 315-318.	5.6	7
56	Lorentz force electrical impedance tomography. Irbm, 2013, 34, 357-360.	5.6	59
57	In vivo monitoring of liposomal release in tumours following ultrasound stimulation. European Journal of Pharmaceutics and Biopharmaceutics, 2013, 84, 526-531.	4.3	32
58	Imaging of shear waves induced by Lorentz force in soft solids. , 2013, , .		0
59	Detection of deeply implanted impedance- switching devices using ultrasound doppler. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2013, 60, 1074-1083.	3.0	3
60	Opening of the blood-brain barrier with an unfocused ultrasound device in rabbits. Journal of Neurosurgery, 2013, 119, 887-898.	1.6	57
61	A multi-element interstitial ultrasound applicator for the thermal therapy of brain tumors. Journal of the Acoustical Society of America, 2013, 134, 1647-1655.	1.1	21
62	Design and evaluation of a transesophageal HIFU probe for ultrasound-guided cardiac ablation: simulation of a HIFU mini-maze procedure and preliminary ex vivo trials. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2013, 60, 1868-1883.	3.0	30
63	Electromagnetic tomographic ultrasonic sensor. Proceedings of Meetings on Acoustics, 2013, , .	0.3	1
64	Electromagnetic hydrophone for high-intensity focused ultrasound (HIFU) measurement. Proceedings of Meetings on Acoustics, 2013, , .	0.3	4
65	TU-E-144-01: Advanced Novel Technologies & Therapeutic Strategies. Medical Physics, 2013, 40, 451-451.	3.0	0
66	High-intensity focused ultrasound liver destruction through the gastric wall under endoscopic ultrasound control: first experience in living pigs. Endoscopy, 2012, 44, E376-E377.	1.8	12
67	MR-guided interstitial thermal therapy for the treatment of brain tumors with a multi-element ultrasound probe. , 2012, , .		1
68	Electromagnetic hydrophone with tomographic system for absolute velocity field mapping. Applied Physics Letters, 2012, 100, .	3.3	18
69	Feasibility study of cavitation-induced liposomal doxorubicin release in an AT2 Dunning rat tumor model. Journal of Drug Targeting, 2012, 20, 691-702.	4.4	13
70	Therapeutic applications of ultrasound in ophthalmology. International Journal of Hyperthermia, 2012, 28, 405-418.	2.5	64
71	Heart ablation using a planar rectangular high intensity ultrasound transducer and MRI guidance. Ultrasonics, 2012, 52, 821-829.	3.9	8
72	Theoretical study for safe and efficient energy transfer to deeply implanted devices using ultrasound. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2012, 59, 1674-1685.	3.0	18

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73	Miniaturized High-Intensity Focused Ultrasound Device in Patients with Glaucoma: A Clinical Pilot Study. , 2011, 52, 8747.		88
74	Heart ablation using a planar rectangular high intensity focused ultrasound transducer and MRI guidance. AIP Conference Proceedings, 2011, , .	0.4	0
75	Development of a Miniaturized HIFU Device for Glaucoma Treatment With Conformal Coagulation of the Ciliary Bodies. Ultrasound in Medicine and Biology, 2011, 37, 742-754.	1.5	58
76	Validation of an acoustic cavitation dose with hydroxyl radical production generated by inertial cavitation in pulsed mode: Application to in vitro drug release from liposomes. Ultrasonics Sonochemistry, 2011, 18, 577-588.	8.2	40
77	WE-C-220-02: Development of a Miniature Ultrasonic Device for Conformal Cyclocoagulation : From Transducer Design to Early Clinical Trials. Medical Physics, 2011, 38, 3812-3812.	3.0	1
78	<i>In Vivo</i> Evaluation of a Mechanically Oscillating Dual-Mode Applicator for Ultrasound Imaging and Thermal Ablation. IEEE Transactions on Biomedical Engineering, 2010, 57, 80-92.	4.2	12
79	Liver Vessels Segmentation Using a Hybrid Geometrical Moments/Graph Cuts Method. IEEE Transactions on Biomedical Engineering, 2010, 57, 276-283.	4.2	64
80	Automatic temperature control for MR-guided interstitial ultrasound ablation in liver using a percutaneous applicator: Ex vivo and in vivo initial studies. Magnetic Resonance in Medicine, 2010, 63, 667-679.	3.0	23
81	Dual-mode transducers for ultrasound imaging and thermal therapy. Ultrasonics, 2010, 50, 216-220.	3.9	38
82	Histologic Effects of a New Device for High-Intensity Focused Ultrasound Cyclocoagulation. , 2010, 51, 5092.		70
83	In-vitro platform to study ultrasound as source for wireless energy transfer and communication for implanted medical devices. , 2010, 2010, 3751-4.		32
84	Suitable acoustic paths to transfer energy in depth using ultrasound. , 2010, 2010, 6694-7.		2
85	Interstitial thermal ablation with a fast rotating dual-mode transducer. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2010, 57, 1066-1095.	3.0	7
86	Dual-mode 5-element transducer for image-guided interstitial ultrasound therapy: In vitro evaluation. , 2009, , .		1
87	Feasibility of using ultrasound contrast agents to increase the size of thermal lesions induced by non-focused transducers: In vitro demonstration in tissue mimicking phantom. Ultrasonics, 2009, 49, 172-178.	3.9	9
88	Blood Clot Disruption in vitro Using Shockwaves Delivered by an Extracorporeal Generator after Pre-Exposure to Lytic Agent. Ultrasound in Medicine and Biology, 2009, 35, 985-990.	1.5	6
89	Développement d'un dispositif expérimental ultrasonore pour le largage ciblé et contrÃ1é d'une chimiothérapie encapsulée. Irbm, 2009, 30, 171-173.	5.6	2
90	Dual-Mode Ultrasound Transducer for Image-Guided Interstitial Thermal Therapy. Ultrasound in Medicine and Biology, 2008, 34, 607-616.	1.5	42

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91	Delivery by shock waves of active principle embedded in gelatin-based capsules. Ultrasonics Sonochemistry, 2008, 15, 808-814.	8.2	11
92	Percutaneous Sonographically Guided Interstitial US Ablation: Experimentation in an In Vivo Pig Liver Model. Journal of Vascular and Interventional Radiology, 2008, 19, 1749-1756.	0.5	8
93	3-D Modeling of the Thermal Coagulation Necrosis Induced by an Interstitial Ultrasonic Transducer. IEEE Transactions on Biomedical Engineering, 2008, 55, 833-837.	4.2	19
94	Morphological Analysis of the Interstitial Ultrasonic Ablation in Porcine Liver in vivo. European Surgical Research, 2008, 41, 24-32.	1.3	2
95	In vitro evaluation of an oscillating dual-mode ultrasound probe for sector imaging and directive therapy. , 2008, 2008, 3669-72.		2
96	Endoluminal ultrasound applicator with an integrated RF coil for high-resolution magnetic resonance imaging-guided high-intensity contact ultrasound thermotherapy. Physics in Medicine and Biology, 2008, 53, 6549-6567.	3.0	18
97	Interstitial devices for minimally invasive thermal ablation by high-intensity ultrasound. International Journal of Hyperthermia, 2007, 23, 153-163.	2.5	45
98	Accurate Temperature Feedback Control for MRI-Guided, Phased Array HICU Endocavitary Therapy. AIP Conference Proceedings, 2007, , .	0.4	0
99	Developing an Interstitial Ultrasound Applicator for Thermal Ablation in Liver: Results of Animal Experiments. Journal of Surgical Research, 2007, 142, 81-89.	1.6	17
100	Automatic feedback control of the temperature for MRI-guided therapeutic ultrasound. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 222-5.	0.5	3
101	MONITORING AND FOLLOW UP OF HIFU LESIONS BY ULTRASOUND. , 2007, , .		5
102	Two Treatment Strategies Using a Therapy / Imaging Rotating Transducer. AIP Conference Proceedings, 2007, , .	0.4	1
103	High intensity ultrasound clamp for bloodless partial nephrectomy: In vitro and in vivo experiments. Ultrasound in Medicine and Biology, 2007, 33, 105-112.	1.5	8
104	An Ultrasonic Clamp for Bloodless Partial Nephrectomy. AIP Conference Proceedings, 2007, , .	0.4	0
105	Bloodless partial nephrectomy with a new high-intensity collimated ultrasonic coagulating applicator in the porcine model. Urology, 2006, 68, 226-230.	1.0	6
106	Use of a bovine eye lens for observation of HIFU-induced lesions in real-time. Ultrasound in Medicine and Biology, 2006, 32, 1731-1741.	1.5	13
107	Transpleurodiaphragmatic cryosurgical ablation for recurrent unresectable colorectal liver metastases. Journal of Surgical Oncology, 2006, 93, 268-272.	1.7	2
108	Interstitial devices for treating deep seated tumors. AIP Conference Proceedings, 2006, , .	0.4	0

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109	MRI-guided Therapeutic Ultrasound : In vitro Validation of a New MR Compatible, Phased Array, Contact Endorectal Ultrasound Transducer with Active Feedback Control of Temperature Evolution. AIP Conference Proceedings, 2006, , .	0.4	0
110	Initiate and Maintain Cavitation by Combining High Amplitude Bursts and Continuous Ultrasound Exposure in Culture Medium. AIP Conference Proceedings, 2006, , .	0.4	1
111	Determination of the nonlinear parameter by propagating and modeling finite amplitude plane waves. Journal of the Acoustical Society of America, 2006, 119, 2639-2644.	1.1	19
112	P1D-4 Fast Rotating Single Element Ultrasound Transducer for Image-Guided Thermal. , 2006, , .		0
113	5J-1 Simultaneous Imaging and Therapeutic Ultrasound (Invited). , 2006, , .		3
114	Monitoring the formation of thermal lesions with heat-induced echo-strain imaging: A feasibility study. Ultrasound in Medicine and Biology, 2005, 31, 251-259.	1.5	93
115	Gel phantom for use in high-intensity focused ultrasound dosimetry. Ultrasound in Medicine and Biology, 2005, 31, 1383-1389.	1.5	221
116	Bloodless Partial Nephrectomy Through Application of Non-Focused High-Intensity Ultrasound. AIP Conference Proceedings, 2005, , .	0.4	2
117	Safety Issues for HIFU Transducer Design. AIP Conference Proceedings, 2005, , .	0.4	8
118	Feasibility of a transurethral ultrasound applicator for coagulation in prostate. Ultrasound in Medicine and Biology, 2004, 30, 113-122.	1.5	24
119	Transoesophageal ultrasound applicator for sector-based thermal ablation: first in vivo experiments. Ultrasound in Medicine and Biology, 2003, 29, 285-291.	1.5	29
120	Mechanisms of lesion formation in high intensity focused ultrasound therapy. Acoustics Research Letters Online: ARLO, 2003, 4, 41-46.	0.7	58
121	Optimizing the shape of ultrasound transducers for interstitial thermal ablation. Medical Physics, 2002, 29, 290-297.	3.0	24
122	Ultrasound cylindrical phased array for transoesophageal thermal therapy: initial studies. Physics in Medicine and Biology, 2002, 47, 4191-4203.	3.0	20
123	Endoscopic treatment of cholangiocarcinoma and carcinoma of the duodenal papilla by intraductal high-intensity US: Results of a pilot study. Gastrointestinal Endoscopy, 2002, 56, 909-915.	1.0	48
124	Endoscopic treatment of cholangiocarcinoma and carcinoma of the duodenal papilla by intraductal high-intensity US: Results of a pilot study. Gastrointestinal Endoscopy, 2002, 56, 909-915.	1.0	50
125	Destruction of a bile duct carcinoma by intraductal high intensity ultrasound during ERCP. Gastrointestinal Endoscopy, 2001, 53, 797-800.	1.0	24
126	The feasibility of constructing a cylindrical array with a plane rotating beam for interstitial thermal surgery. Ultrasonics, 2000, 37, 615-621.	3.9	9

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127	Development of an interstitial ultrasound applicator for endoscopic procedures: animal experimentation. Ultrasound in Medicine and Biology, 2000, 26, 669-675.	1.5	29
128	Cylindrical thermal coagulation necrosis using an interstitial applicator with a plane ultrasonic transducer: in vitro and in vivo experiments versus computer simulations. International Journal of Hyperthermia, 2000, 16, 508-522.	2.5	35
129	Theoretical comparison of two interstitial ultrasound applicators designed to induce cylindrical zones of tissue ablation. Medical and Biological Engineering and Computing, 1999, 37, 298-303.	2.8	24
130	A high-intensity US probe designed for intraductal tumor destruction: experimental results. Gastrointestinal Endoscopy, 1999, 50, 388-392.	1.0	26
131	Design and in vitro results of a high intensity ultrasound interstitial applicator. Ultrasonics, 1998, 36, 683-687.	3.9	14
132	Design and preliminary results of an ultrasound applicator for interstitial thermal coagulation. Ultrasound in Medicine and Biology, 1998, 24, 113-122.	1.5	66
133	In vivo effects of interstitial ultrasound plane applicator on Dunning tumours. , 0, , .		1
134	Ultrasound interstitial applicator for digestive endoscopy: in vivo destruction of bilary tissues. , 0, , .		3
135	Development and characterization of an innovative synthetic tissue-mimicking material for high intensity focused ultrasound (HIFU) exposures. , 0, , .		13
136	The feasibility of developing a 64-elements cylindrical phased array for intraductal thermal ablation. , 0, , .		0
137	Feasibility of haemostasis in prostate using a flat trans-urethral transducer. , 0, , .		0