

David Melodelima

List of Publications by Citations

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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.

49
papers

705
citations

18
h-index

24
g-index

85
ext. papers

880
ext. citations

3.8
avg, IF

3.52
L-index

#	Paper	IF	Citations
49	Combination of thermal and cavitation effects to generate deep lesions with an endocavitary applicator using a plane transducer: ex vivo studies. <i>Ultrasound in Medicine and Biology</i> , 2004 , 30, 103-111	3.5	58
48	Transient elastography using impulsive ultrasound radiation force: a preliminary comparison with surface palpation elastography. <i>Ultrasound in Medicine and Biology</i> , 2007 , 33, 959-69	3.5	45
47	Thermal ablation by high-intensity-focused ultrasound using a toroid transducer increases the coagulated volume. Results of animal experiments. <i>Ultrasound in Medicine and Biology</i> , 2009 , 35, 425-35	3.5	35
46	Interstitial devices for minimally invasive thermal ablation by high-intensity ultrasound. <i>International Journal of Hyperthermia</i> , 2007 , 23, 153-63	3.7	35
45	Elastography for breast cancer diagnosis using radiation force: system development and performance evaluation. <i>Ultrasound in Medicine and Biology</i> , 2006 , 32, 387-96	3.5	32
44	First clinical experience of intra-operative high intensity focused ultrasound in patients with colorectal liver metastases: a phase I-IIa study. <i>PLoS ONE</i> , 2015 , 10, e0118212	3.7	29
43	64-element intraluminal ultrasound cylindrical phased array for transesophageal thermal ablation under fast MR temperature mapping: an ex vivo study. <i>Medical Physics</i> , 2006 , 33, 2926-34	4.4	29
42	Intraluminal high intensity ultrasound treatment in the esophagus under fast MR temperature mapping: in vivo studies. <i>Magnetic Resonance in Medicine</i> , 2005 , 54, 975-82	4.4	29
41	Transoesophageal ultrasound applicator for sector-based thermal ablation: first in vivo experiments. <i>Ultrasound in Medicine and Biology</i> , 2003 , 29, 285-91	3.5	27
40	Treatment of esophageal tumors using high intensity intraluminal ultrasound: first clinical results. <i>Journal of Translational Medicine</i> , 2008 , 6, 28	8.5	26
39	Utility of a tumor-mimic model for the evaluation of the accuracy of HIFU treatments. results of in vitro experiments in the liver. <i>Ultrasound in Medicine and Biology</i> , 2008 , 34, 1934-43	3.5	25
38	Electronic beam steering used with a toroidal HIFU transducer substantially increases the coagulated volume. <i>Ultrasound in Medicine and Biology</i> , 2013 , 39, 1241-54	3.5	24
37	Ultrasound surgery with a toric transducer allows the treatment of large volumes over short periods of time. <i>Applied Physics Letters</i> , 2007 , 91, 193901	3.4	24
36	Thermal ablation produced using a surgical toroidal high-intensity focused ultrasound device is independent from hepatic inflow occlusion. <i>Physics in Medicine and Biology</i> , 2009 , 54, 6353-68	3.8	22
35	Intra-operative ultrasound hand-held strain imaging for the visualization of ablations produced in the liver with a toroidal HIFU transducer: first in vivo results. <i>Physics in Medicine and Biology</i> , 2010 , 55, 3131-44	3.8	20
34	Cancer treatment by ultrasound: Increasing the depth of necrosis. <i>Applied Physics Letters</i> , 2004 , 84, 5365-5367	3.67	20
33	Assisted hepatic resection using a toroidal HIFU device: an in vivo comparative study in pig. <i>Medical Physics</i> , 2011 , 38, 1769-78	4.4	19

32	Ultrasound cylindrical phased array for transoesophageal thermal therapy: initial studies. <i>Physics in Medicine and Biology</i> , 2002 , 47, 4191-203	3.8	19
31	Intraluminal ultrasound applicator compatible with magnetic resonance imaging "real-time" temperature mapping for the treatment of oesophageal tumours: an ex vivo study. <i>Medical Physics</i> , 2004 , 31, 236-44	4.4	18
30	Low-Intensity Ultrasound Promotes Clathrin-Dependent Endocytosis for Drug Penetration into Tumor Cells. <i>Ultrasound in Medicine and Biology</i> , 2015 , 41, 2740-54	3.5	16
29	Evaluation of experimental methods for assessing safety for ultrasound radiation force elastography. <i>British Journal of Radiology</i> , 2009 , 82, 666-74	3.4	15
28	Low-intensity continuous ultrasound triggers effective bisphosphonate anticancer activity in breast cancer. <i>Scientific Reports</i> , 2015 , 5, 16354	4.9	13
27	High-intensity focused ultrasound applied to the placenta using a toroidal transducer: a preliminary ex-vivo study. <i>Ultrasound in Obstetrics and Gynecology</i> , 2015 , 45, 313-9	5.8	13
26	Thermal Ablation of the Pancreas With Intraoperative High-Intensity Focused Ultrasound: Safety and Efficacy in a Porcine Model. <i>Pancreas</i> , 2017 , 46, 219-224	2.6	12
25	In vivo preclinical evaluation of the accuracy of toroidal-shaped HIFU treatments using a tumor-mimic model. <i>Physics in Medicine and Biology</i> , 2010 , 55, 2137-54	3.8	11
24	Non-invasive high-intensity focused ultrasound treatment of the placenta: a preliminary in-vivo study using a simian model. <i>Ultrasound in Obstetrics and Gynecology</i> , 2017 , 50, 635-641	5.8	10
23	An Ultrasound Image-Based Dynamic Fusion Modeling Method for Predicting the Quantitative Impact of In Vivo Liver Motion on Intraoperative HIFU Therapies: Investigations in a Porcine Model. <i>PLoS ONE</i> , 2015 , 10, e0137317	3.7	9
22	Suitability of a tumour-mimicking material for the evaluation of high-intensity focused ultrasound ablation under magnetic resonance guidance. <i>Physics in Medicine and Biology</i> , 2013 , 58, 2163-83	3.8	9
21	Visualisation of liver tumours using hand-held real-time strain imaging: results of animal experiments. <i>British Journal of Radiology</i> , 2012 , 85, e556-65	3.4	7
20	Evaluation of the Feasibility, Safety, and Accuracy of an Intraoperative High-intensity Focused Ultrasound Device for Treating Liver Metastases. <i>Journal of Visualized Experiments</i> , 2019 ,	1.6	6
19	Efficacy of high-intensity focused ultrasound-assisted hepatic resection (HIFU-AR) on blood loss reduction in patients with liver metastases requiring hepatectomy: study protocol for a randomized controlled trial. <i>Trials</i> , 2017 , 18, 57	2.8	6
18	High-intensity focused ultrasound (HIFU)-assisted hepatic resection in an animal model. <i>Annals of Surgical Oncology</i> , 2012 , 19 Suppl 3, S447-54	3.1	5
17	Low dimensional optimization for in vivo real-time porcine liver motion estimation using ultrasound imaging. <i>Ultrasonics</i> , 2010 , 50, 44-51	3.5	5
16	Comparison of two methods of treatment for intraluminal thermal ablation using an ultrasound cylindrical phased array. <i>Ultrasonics</i> , 2004 , 42, 937-42	3.5	5
15	Fast and Selective Ablation of Liver Tumors by High-Intensity Focused Ultrasound Using a Toroidal Transducer Guided by Ultrasound Imaging: The Results of Animal Experiments. <i>Ultrasound in Medicine and Biology</i> , 2020 , 46, 3286-3295	3.5	4

14	High-Intensity Focused Ultrasound Using a Toroidal Transducer as an Adjuvant Treatment for Placenta Accreta: A Preliminary Ex Vivo Study. <i>Irbm</i> , 2019 , 40, 228-234	4.8	3
13	Toric HIFU transducer for large thermal ablation. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2007 , 2007, 230-3		3
12	Development of a Simple In Vitro Artery Model and an Evaluation of the Impact of Pulsed Flow on High-Intensity Focused Ultrasound Ablation. <i>Irbm</i> , 2021 , 42, 112-119	4.8	2
11	Evaluation of Ultrasonic Attenuation in Primary and Secondary Human Liver Tumors and Its Potential Effect on High-Intensity Focused Ultrasound Treatment. <i>Ultrasound in Medicine and Biology</i> , 2021 , 47, 1761-1774	3.5	2
10	Pancreatic Ductal Adenocarcinoma: Current and Emerging Therapeutic Uses of Focused Ultrasound. <i>Cancers</i> , 2022 , 14, 2577	6.6	2
9	Augmentation du volume traité par ultrasons focalisés de haute intensité pour le traitement des métastases hépatiques. <i>Irbm</i> , 2011 , 32, 274-278	4.8	1
8	Preclinical Evaluation of the Accuracy of HIFU Treatments Using a Tumor-Mimic Model. Results of Animal Experiments 2009 ,		1
7	Nonlinear parameter imaging to characterize HIFU ablation: Preliminary in vitro results in porcine liver 2011 ,		1
6	Temperature mapping for ultrasound scanner using backscattered changes 2012 ,		1
5	P2E-4 Transient Ultrasound Radiation Force Elastography. Preliminary Comparison with Surface Palpation Elastography 2006 ,		1
4	2006 ,		1
3	A tumor-mimic model for evaluating the accuracy of HIFU preclinical studies: an in vivo study. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2007 , 2007, 3544-7		1
2	Intraoperative HIFU Ablation of the Pancreas Using a Toroidal Transducer in a Porcine Model. The First Step towards a Clinical Treatment of Locally Advanced Pancreatic Cancer.. <i>Cancers</i> , 2021 , 13,	6.6	1
1	Toroidal Transducer for Intraoperative Thermal Ablation of Pancreatic Tumours by High-Intensity Focused Ultrasound. First In Vitro Experiments. <i>Irbm</i> , 2016 , 37, 152-157	4.8	0