David Melodelima

List of Publications by Year in Descending Order

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	Pancreatic Ductal Adenocarcinoma: Current and Emerging Therapeutic Uses of Focused Ultrasound. *Cancers*, **2022**, 14, 2577	6.6	2
48	Development of a Simple In Vitro Artery Model and an Evaluation of the Impact of Pulsed Flow on High-Intensity Focused Ultrasound Ablation. *Irbm*, **2021**, 42, 112-119	4.8	2
47	Evaluation of Ultrasonic Attenuation in Primary and Secondary Human Liver Tumors and Its Potential Effect on High-Intensity Focused Ultrasound Treatment. *Ultrasound in Medicine and Biology*, **2021**, 47, 1761-1774	3.5	2
46	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.. *Cancers*, **2021**, 13,	6.6	1
45	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. *Ultrasound in Medicine and Biology*, **2020**, 46, 3286-3295	3.5	4
44	Evaluation of the Feasibility, Safety, and Accuracy of an Intraoperative High-intensity Focused Ultrasound Device for Treating Liver Metastases. *Journal of Visualized Experiments*, **2019**,	1.6	6
43	High-Intensity Focused Ultrasound Using a Toroidal Transducer as an Adjuvant Treatment for Placenta Accreta: A Preliminary Ex Vivo Study. *Irbm*, **2019**, 40, 228-234	4.8	3
42	Thermal Ablation of the Pancreas With Intraoperative High-Intensity Focused Ultrasound: Safety and Efficacy in a Porcine Model. *Pancreas*, **2017**, 46, 219-224	2.6	12
41	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. *Trials*, **2017**, 18, 57	2.8	6
40	Non-invasive high-intensity focused ultrasound treatment of the placenta: a preliminary in-vivo study using a simian model. *Ultrasound in Obstetrics and Gynecology*, **2017**, 50, 635-641	5.8	10
39	Toroidal Transducer for Intraoperative Thermal Ablation of Pancreatic Tumours by High-Intensity Focused Ultrasound. First In Vitro Experiments. *Irbm*, **2016**, 37, 152-157	4.8	0
38	Low-Intensity Ultrasound Promotes Clathrin-Dependent Endocytosis for Drug Penetration into Tumor Cells. *Ultrasound in Medicine and Biology*, **2015**, 41, 2740-54	3.5	16
37	Low-intensity continuous ultrasound triggers effective bisphosphonate anticancer activity in breast cancer. *Scientific Reports*, **2015**, 5, 16354	4.9	13
36	First clinical experience of intra-operative high intensity focused ultrasound in patients with colorectal liver metastases: a phase I-IIa study. *PLoS ONE*, **2015**, 10, e0118212	3.7	29
35	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. *PLoS ONE*, **2015**, 10, e0137317	3.7	9
34	High-intensity focused ultrasound applied to the placenta using a toroidal transducer: a preliminary ex-vivo study. *Ultrasound in Obstetrics and Gynecology*, **2015**, 45, 313-9	5.8	13
33	Electronic beam steering used with a toroidal HIFU transducer substantially increases the coagulated volume. *Ultrasound in Medicine and Biology*, **2013**, 39, 1241-54	3.5	24

32	Suitability of a tumour-mimicking material for the evaluation of high-intensity focused ultrasound ablation under magnetic resonance guidance. *Physics in Medicine and Biology*, **2013**, 58, 2163-83	3.8	9
31	Visualisation of liver tumours using hand-held real-time strain imaging: results of animal experiments. *British Journal of Radiology*, **2012**, 85, e556-65	3.4	7
30	High-intensity focused ultrasound (HIFU)-assisted hepatic resection in an animal model. *Annals of Surgical Oncology*, **2012**, 19 Suppl 3, S447-54	3.1	5
29	Temperature mapping for ultrasound scanner using backscattered changes **2012**,		1
28	Augmentation du volume traitpar ultrasons focalisde haute intensitpour le traitement des mEastases hpatiques. *Irbm*, **2011**, 32, 274-278	4.8	1
27	Assisted hepatic resection using a toroidal HIFU device: an in vivo comparative study in pig. *Medical Physics*, **2011**, 38, 1769-78	4.4	19
26	Nonlinear parameter imaging to characterize HIFU ablation: Preliminary in vitro results in porcine liver **2011**,		1
25	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. *Physics in Medicine and Biology*, **2010**, 55, 3131-44	3.8	20
24	In vivo preclinical evaluation of the accuracy of toroidal-shaped HIFU treatments using a tumor-mimic model. *Physics in Medicine and Biology*, **2010**, 55, 2137-54	3.8	11
23	Low dimensional optimization for in vivo real-time porcine liver motion estimation using ultrasound imaging. *Ultrasonics*, **2010**, 50, 44-51	3.5	5
22	Thermal ablation produced using a surgical toroidal high-intensity focused ultrasound device is independent from hepatic inflow occlusion. *Physics in Medicine and Biology*, **2009**, 54, 6353-68	3.8	22
21	Preclinical Evaluation of the Accuracy of HIFU Treatments Using a Tumor-Mimic Model. Results of Animal Experiments **2009**,		1
20	Evaluation of experimental methods for assessing safety for ultrasound radiation force elastography. *British Journal of Radiology*, **2009**, 82, 666-74	3.4	15
19	Thermal ablation by high-intensity-focused ultrasound using a toroid transducer increases the coagulated volume. Results of animal experiments. *Ultrasound in Medicine and Biology*, **2009**, 35, 425-35	3.5	35
18	Treatment of esophageal tumors using high intensity intraluminal ultrasound: first clinical results. *Journal of Translational Medicine*, **2008**, 6, 28	8.5	26
17	Utility of a tumor-mimic model for the evaluation of the accuracy of HIFU treatments. results of in vitro experiments in the liver. *Ultrasound in Medicine and Biology*, **2008**, 34, 1934-43	3.5	25
16	Toric HIFU transducer for large thermal ablation. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society*, **2007**, 2007, 230-3		3
15	Transient elastography using impulsive ultrasound radiation force: a preliminary comparison with surface palpation elastography. *Ultrasound in Medicine and Biology*, **2007**, 33, 959-69	3.5	45

14	Interstitial devices for minimally invasive thermal ablation by high-intensity ultrasound. *International Journal of Hyperthermia*, **2007**, 23, 153-63	3.7	35
13	Ultrasound surgery with a toric transducer allows the treatment of large volumes over short periods of time. *Applied Physics Letters*, **2007**, 91, 193901	3.4	24
12	A tumor-mimic model for evaluating the accuracy of HIFU preclinical studies: an in vivo study. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society*, **2007**, 2007, 3544-7		1
11	Elastography for breast cancer diagnosis using radiation force: system development and performance evaluation. *Ultrasound in Medicine and Biology*, **2006**, 32, 387-96	3.5	32
10	64-element intraluminal ultrasound cylindrical phased array for transesophageal thermal ablation under fast MR temperature mapping: an ex vivo study. *Medical Physics*, **2006**, 33, 2926-34	4.4	29
9	P2E-4 Transient Ultrasound Radiation Force Elastography. Preliminary Comparison with Surface Palpation Elastography **2006**,		1
8	**2006**,		1
7	Intraluminal high intensity ultrasound treatment in the esophagus under fast MR temperature mapping: in vivo studies. *Magnetic Resonance in Medicine*, **2005**, 54, 975-82	4.4	29
6	Cancer treatment by ultrasound: Increasing the depth of necrosis. *Applied Physics Letters*, **2004**, 84, 5365-5367	3.4	20
5	Intraluminal ultrasound applicator compatible with magnetic resonance imaging "real-time" temperature mapping for the treatment of oesophageal tumours: an ex vivo study. *Medical Physics*, **2004**, 31, 236-44	4.4	18
4	Comparison of two methods of treatment for intraluminal thermal ablation using an ultrasound cylindrical phased array. *Ultrasonics*, **2004**, 42, 937-42	3.5	5
3	Combination of thermal and cavitation effects to generate deep lesions with an endocavitary applicator using a plane transducer: ex vivo studies. *Ultrasound in Medicine and Biology*, **2004**, 30, 103-11	3.5	58
2	Transoesophageal ultrasound applicator for sector-based thermal ablation: first in vivo experiments. *Ultrasound in Medicine and Biology*, **2003**, 29, 285-91	3.5	27
1	Ultrasound cylindrical phased array for transoesophageal thermal therapy: initial studies. *Physics in Medicine and Biology*, **2002**, 47, 4191-203	3.8	19