Publications & Preprints _____

In descending chronological order. Citation data from Google Scholar.

2022	Pauline Coralie Guillemin, <u>David Sinden</u> , Yacine M'Rad, Michael Schwenke, Jennifer Le Guevelou, Johan Uiterwijk, Orane Lorton, Max Scheffler, Pierre-Alexandre Poletti, Jürgen Jenne, Thomas Zilli, and Rares Salomir, "A novel concept of transperineal focused ultrasound transducer for prostate cancer local deep hyperthermia treatments". <i>Cancers</i> 15, 163	_
2022	Christina A. Neizert, Hoang N. C. Do, Miriam Zibell, Christian Rieder, <u>David Sinden</u> , Stefan M. Niehues, Janis L. Vahldiek, Kai S. Lehmann, and Franz G. M. Poch, "Three-dimensional assessment of vascular cooling effects on hepatic microwave ablation in a standardized ex vivo model", <i>Sci. Rep.</i> 12, 17061	cites: 2
2022	Karl Heimes, Marina Evers, Tim Gerrits, Sandeep Gyawali, <u>David Sinden</u> , Tobias Preusser, and Lars Linsen, "Studying the effect of tissue properties on radiofrequency ablation by visual simulation ensemble analysis", in Eurographics Workshop on Visual Computing for Biology and Medicine, edited by Renata G. Raidou, Björn Sommer, Torsten W. Kuhlen, Michael Krone, Thomas Schultz, and Hsiang-Yun Wu (The Eurographics Association, 2022) ISBN 978-3-03868-177-9, ISSN 2070-5786 Santeri Kaupinmäki, Ben Cox, Simon Arridge, Christian Baker, <u>David Sinden</u> , and Bajram Zeqiri, "Pyroelectric ultrasound sensor model: directional response", <i>Meas. Sci. Technol.</i> 32, 035106	cites: 4
2021	Dongwoon Hyun, Alycen Wiacek, Sobhan Goudarzi, Sven Rothlübbers, Amir Asif, Klaus Eickel, Yonina C. Eldar, Jiaqi Huang, Massimo Mischi, Hassan Rivaz, <u>David Sinden</u> , Ruud J. G. van Sloun, Hannah Strohm, and Muyinatu A. Lediju Bell, "Deep learning for ultrasound image formation: CUBDL evaluation framework and open datasets", <i>IEEE Trans. Ultrason. Ferroelectr. Freq. Control</i> 68, 3466–3483	cites: 54
2020	Sven Rothlübbers, Hannah Strohm, Klaus Eickel, Jürgen Jenne, Vincent Kuhlen, <u>David Sinden</u> , and Matthias Günther, "Improving image quality of single plane wave ultrasound via deep learning based channel compounding", 2020 IEEE International Ultrasonics Symposium (IUS) pp. 14	cites: 22
2020	Nadia A. S. Smith, <u>David Sinden</u> , Spencer A. Thomas, Marina Romanchikova, Jessica E. Talbott, and Michael Adeogun, "Building confidence in digital health through metrology", <i>Br. J. Radiol.</i> 93, 20190574	cites: 12
2017	Ki Joo Pahk, Pierre Gélat, <u>David Sinden</u> , Dipok Kumar Dhar, and Nader Saffari, "Numerical and experimental study of mechanisms involved in boiling histotripsy", <i>Ultrasound Med. Biol.</i> 43, 2848–2861	cites: 37
2017	<u>David Sinden</u> , Srinath Rajagopal, N. Christopher Chaggares, Guofeng Pang, and Oleg Ivanytskyy, "Reducing uncertainties for spatial averaging at high frequencies", 2017 IEEE International Ultrasonics Symposium (IUS) (IEEE, 2017) pp. 1–4	cites: 1
2014	<u>David Sinden</u> and Gail ter Haar, "Dosimetry implications for correct ultrasound dose deposition: uncertainties in descriptors, planning and treatment delivery", <i>Trans. Cancer Res.</i> 3, 459–471	cites: 10
2012	<u>David Sinden</u> , Eleanor Stride, and Nader Saffari, "Approximations for acoustically excited bubble cluster dynamics", <i>J. Phys.: Conf. Ser.</i> , Vol. 353 (IOP Publishing, 2012) p. 012008	cites: 3
2011	Gert H. M. van der Heijden and <u>David Sinden</u> , "Localisation of a twisted conducting rod in a uniform magnetic field: the Hamiltonian-Hopf-Hopf bifurcation", in Proc. 7 th European Nonlinear Dynamics Conference (ENOC 2011), edited by D. Bernardini, G. Rega, and F. Romeo (European Mechanics Society, 2011) p. 4, ISBN 978-88-906234-2-4	cites: 2
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2009	<u>David Sinden</u> , Eleanor Stride, and Nader Saffari, "The effects of nonlinear wave propagation on the stability of inertial cavitation", <i>J. Phys.: Conf. Ser.</i> , Vol. 195 (IOP Publishing, 2009) p. 012008	cites: 3
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