

# Chris Diederch

## List of Publications by Year in descending order

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35  
papers

777  
citations

759233

12  
h-index

501196

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docs citations

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times ranked

954  
citing authors

#	ARTICLE	IF	CITATIONS
1	Microbubble-Facilitated Ultrasound Catheter Ablation Causes Microvascular Damage and Fibrosis. <i>Ultrasound in Medicine and Biology</i> , 2021, 47, 131-138.	1.5	3
2	Anatomic thermochromic tissue-mimicking phantom of the lumbar spine for pre-clinical evaluation of MR-guided focused ultrasound (MRgFUS) ablation of the facet joint. <i>International Journal of Hyperthermia</i> , 2021, 38, 130-135.	2.5	8
3	Deployable ultrasound applicators for endoluminal delivery of volumetric hyperthermia. <i>International Journal of Hyperthermia</i> , 2021, 38, 1188-1204.	2.5	3
4	High Contrast Ultrasonic Method With Multi-Spatiotemporal Compounding for Monitoring Catheter-Based Ultrasound Thermal Therapy: Development and Ex Vivo Evaluations. <i>IEEE Transactions on Biomedical Engineering</i> , 2021, 68, 3131-3141.	4.2	2
5	Sonication strategies toward volumetric ultrasound hyperthermia treatment using the ExAblate body MRgFUS system. <i>International Journal of Hyperthermia</i> , 2021, 38, 1590-1600.	2.5	3
6	<i>In vivo</i> Nakagami-enhanced parametric imaging of microbubble-enhanced ultrasound regulated by RF and VF processing techniques. <i>Medical Physics</i> , 2020, 47, 5659-5668.	3.0	5
7	Dual-sector transurethral ultrasound for thermal treatment of stress urinary incontinence: in silico studies in 3D anatomical models. <i>Medical and Biological Engineering and Computing</i> , 2020, 58, 1325-1340.	2.8	1
8	Endobronchial high-intensity ultrasound for thermal therapy of pulmonary malignancies: simulations with patient-specific lung models. <i>International Journal of Hyperthermia</i> , 2019, 36, 1107-1120.	2.5	7
9	Noninvasive, Targeted Creation of Neuromyelitis Optica Pathology in AQP4-IgG Seropositive Rats by Pulsed Focused Ultrasound. <i>Journal of Neuropathology and Experimental Neurology</i> , 2019, 78, 47-56.	1.7	7
10	A minimally invasive catheter-based ultrasound technology for therapeutic interventions in brain: initial preclinical studies. <i>Neurosurgical Focus</i> , 2018, 44, E13.	2.3	11
11	Transurethral high-intensity ultrasound for treatment of stress urinary incontinence (SUI): simulation studies with patient-specific models. <i>International Journal of Hyperthermia</i> , 2018, 34, 1236-1247.	2.5	6
12	MR thermometry-guided ultrasound hyperthermia of user-defined regions using the ExAblate prostate ablation array. <i>Journal of Therapeutic Ultrasound</i> , 2018, 6, 7.	2.2	16
13	880 kHz ultrasound treatment for drug delivery to the vitreous humor. <i>American Journal of Translational Research (discontinued)</i> , 2018, 10, 3162-3170.	0.0	2
14	Quality assurance guidelines for superficial hyperthermia clinical trials: I. Clinical requirements. <i>International Journal of Hyperthermia</i> , 2017, 33, 471-482.	2.5	86
15	Quality assurance guidelines for superficial hyperthermia clinical trials. <i>Strahlentherapie Und Onkologie</i> , 2017, 193, 351-366.	2.0	73
16	Investigation of interstitial ultrasound ablation of spinal and paraspinal tumors: A patient-specific and parametric simulation study. <i>AIP Conference Proceedings</i> , 2017, , .	0.4	1
17	Assessing temperature changes in cortical bone using variable flip-angle ultrashort echo-time MRI. <i>AIP Conference Proceedings</i> , 2017, , .	0.4	2
18	Theoretical investigation of transgastric and intraductal approaches for ultrasound-based thermal therapy of the pancreas. <i>Journal of Therapeutic Ultrasound</i> , 2017, 5, 10.	2.2	5

#	ARTICLE	IF	CITATIONS
19	Model-based feasibility assessment and evaluation of prostate hyperthermia with a commercial MR-guided endorectal HIFU ablation array. AIP Conference Proceedings, 2017, , .	0.4	1
20	Quantifying temperature-dependent $T_1$ changes in cortical bone using ultrashort echo-time MRI. Magnetic Resonance in Medicine, 2015, 74, 1548-1555.	3.0	22
21	Epicardial Catheter Ablation Using High-Intensity Ultrasound. Circulation: Arrhythmia and Electrophysiology, 2015, 8, 1491-1497.	4.8	12
22	Catheter-based ultrasound technology for image-guided thermal therapy: Current technology and applications. International Journal of Hyperthermia, 2015, 31, 203-215.	2.5	28
23	Model-based feasibility assessment and evaluation of prostate hyperthermia with a commercial MR-guided endorectal HIFU ablation array. Medical Physics, 2014, 41, 033301.	3.0	19
24	Modelling of endoluminal and interstitial ultrasound hyperthermia and thermal ablation: Applications for device design, feedback control and treatment planning. International Journal of Hyperthermia, 2013, 29, 296-307.	2.5	25
25	MR guided thermal therapy of pancreatic tumors with endoluminal, intraluminal and interstitial catheter-based ultrasound devices: preliminary theoretical and experimental investigations. , 2013, 8584, 85840V.		4
26	Considerations for theoretical modelling of thermal ablation with catheter-based ultrasonic sources: Implications for treatment planning, monitoring and control. International Journal of Hyperthermia, 2012, 28, 69-86.	2.5	69
27	Catheter-based ultrasound hyperthermia with HDR brachytherapy for treatment of locally advanced cancer of the prostate and cervix. Proceedings of SPIE, 2011, 7901, 790100.	0.8	15
28	Treatment Control and Device Optimization of Transurethral Curvilinear Applicators for Prostate Thermal Therapy. , 2009, , .		0
29	Catheter-based ultrasound devices and MR thermal monitoring for conformal prostate thermal therapy. , 2008, 2008, 3664-8.		8
30	Society of Thermal Medicine Robinson Award 2007. International Journal of Hyperthermia, 2007, 23, 473-474.	2.5	0
31	Referenceless PRF thermometry with multi-echo processing to monitor prostate ablation. AIP Conference Proceedings, 2007, , .	0.4	0
32	Fast Conformal Thermal Ablation in the Prostate with Transurethral Multi-Sectoral Ultrasound Devices and MR Guidance. AIP Conference Proceedings, 2007, , .	0.4	0
33	Thermal ablation and high-temperature thermal therapy: Overview of technology and clinical implementation. International Journal of Hyperthermia, 2005, 21, 745-753.	2.5	269
34	Control of interstitial thermal coagulation: Comparative evaluation of microwave and ultrasound applicators. Medical Physics, 2001, 28, 104-117.	3.0	36
35	Air-cooling of direct-coupled ultrasound applicators for interstitial hyperthermia and thermal coagulation. Medical Physics, 1998, 25, 2400-2409.	3.0	28