William A N'djin

List of Publications by Year
in descending order

63	730	516215 16	552369 26
papers	citations	h-index	g-index

65	65	65	594
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Spatio-temporal characterization of causal electrophysiological activity stimulated by single pulse focused ultrasound: an ex vivo study on hippocampal brain slices. Journal of Neural Engineering, 2021, 18, 026022.	1.8	8
2	Mixed Focused UltraSound (FUS) / fluorescence imaging platform for characterization of the spatial-temporal dynamics of FUS-evoked calcium fluxes in an in vitro human cell model. , 2021, , .		1
3	Neurostimulation success rate of repetitiveâ€pulse focused ultrasound in an In Vivo Giant Axon Model: An acoustic parametric study. Medical Physics, 2021, , .	1.6	2
4	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.	0.7	8
5	A causal study of the phenomenon of ultrasound neurostimulation applied to an in vivo invertebrate nervous model. Scientific Reports, 2019, 9, 13738.	1.6	12
6	Ex-Vivo Recording of LEUS-Generated Neural Responses from Mouse Brain Slices Using a Microelectrode Array (MEA) System. , 2018, , .		2
7	Potential of Low Energy UltraSound for Inducing Cardioprotection Mechanisms: In-Vitro Investigations on a Hypoxia-Reoxygenation Model of Cardiac Cells. , 2018, , .		0
8	Preliminary Investigation of a 64-element Capacitive Micromachined Ultrasound Transducer (CMUT) Annular Array Designed for High Intensity Focused Ultrasound (HIFU). Irbm, 2018, 39, 295-306.	3.7	15
9	Fast Volumetric Ultrasound B-Mode and Doppler Imaging with a New High-Channels Density Platform for Advanced 4D Cardiac Imaging/Therapy. Applied Sciences (Switzerland), 2018, 8, 200.	1.3	54
10	Capacitive Micromachined Ultrasound Transducers for Interstitial High-Intensity Ultrasound Therapies. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2017, 64, 1245-1260.	1.7	19
11	1D multi-element CMUT arrays for ultrasound thermal therapy. AIP Conference Proceedings, 2017, , .	0.3	0
12	A new high channels density ultrasound platform for advanced 4D cardiac imaging. , 2017, , .		2
13	Analysis of CMUT power efficiency for optimized therapeutic operation. , 2017, , .		0
14	Feasibility and main mechanisms underlying in vivo ultrasound neurostimulation of the ventral nerve cord's giant axons of Lumbricus Terrestris. , 2017, , .		0
15	Analysis of CMUT power efficiency for optimized therapeutic operation. , 2017, , .		0
16	Notice of Removal: Preliminary investigation of dual mode CMUT probe for ultrasound image guided HIFU therapy. , 2017, , .		1
17	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.	0.7	24
18	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.	1.6	21

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19	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.	1.1	14
20	Active MRâ€temperature feedback control of dynamic interstitial ultrasound therapy in brain: In vivo experiments and modeling in native and coagulated tissues. Medical Physics, 2014, 41, 093301.	1.6	16
21	Ultrasound-guided transesophageal HIFU exposures for atrial fibrillation treatment: First animal experiment. Irbm, 2013, 34, 315-318.	3.7	7
22	Development of a new control strategy for 3D MRIâ€controlled interstitial ultrasound cancer therapy. Medical Physics, 2013, 40, 033301.	1.6	10
23	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.	1.7	30
24	Fusion modeling for predicting the impact of in-vivo liver motion on HIFU therapies. , 2013, , .		0
25	Coagulation of human prostate volumes with MRI-controlled transurethral ultrasound therapy: Results in gel phantoms. Medical Physics, 2012, 39, 4524-4536.	1.6	9
26	MRI-guided transurethral ultrasound therapy enables full prostate gland coagulation: Investigations in gel phantoms. , 2012, , .		0
27	MRI-controlled interstitial ultrasound brain therapy: An initial in-vivo study. , 2012, , .		0
28	Acoustic characterization of multi-element, dual-frequency transducers for high-intensity contact ultrasound therapy. , 2012, , .		1
29	Dual-frequency ultrasound focal therapy for MRI-guided transurethral treatment of the prostate: Study in gel phantom. AIP Conference Proceedings, 2012, , .	0.3	2
30	Investigation of power and frequency for 3D conformal MRI-controlled transurethral ultrasound therapy with a dual frequency multi-element transducer. International Journal of Hyperthermia, 2012, 28, 87-104.	1.1	13
31	MR Imagingâ€"controlled Transurethral Ultrasound Therapy for Conformal Treatment of Prostate Tissue: Initial Feasibility in Humans. Radiology, 2012, 265, 303-313.	3.6	98
32	High-Intensity Focused Ultrasound (HIFU)-Assisted Hepatic Resection in an Animal Model. Annals of Surgical Oncology, 2012, 19, 447-454.	0.7	5
33	MRI-guided transurethral ultrasound therapy of the prostate gland: simulations under clinical conditions. , 2011, , .		0
34	Ablation produced using a toroidal High Intensity Focused Ultrasound device is independent of hepatic perfusion. AIP Conference Proceedings, 2011, , .	0.3	0
35	3D MRI-Controlled Transurethral Ultrasound Prostate Therapy: Experimental Validation of Numerical Simulations. AIP Conference Proceedings, 2011, , .	0.3	0
36	3D conformal MRI-guided transurethral ultrasound therapy: results of gel phantom experiments. , 2011, , .		0

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37	Assisted hepatic resection using a toroidal HIFU device: An in vivo comparative study in pig. Medical Physics, 2011, 38, 1769-1778.	1.6	25
38	MRI-controlled transurethral ultrasound therapy for localised prostate cancer. International Journal of Hyperthermia, 2010, 26, 804-821.	1.1	32
39	In-vivo ablation of liver tumors by high-intensity-focused ultrasound using a toroidal transducer. Results of animal experiments. , 2010, , .		1
40	Effects of respiratory motion on in-vivo HIFU treatments: a comparative study in the liver. , 2010, , .		0
41	Investigation of parameters affecting treatment time in MRI-guided transurethral ultrasound therapy. AIP Conference Proceedings, 2010, , .	0.3	1
42	Intra-operative ultrasound hand-held strain imaging for the visualization of ablations produced in the liver with a toroidal HIFU transducer: firstin vivoresults. Physics in Medicine and Biology, 2010, 55, 3131-3144.	1.6	31
43	3D conformal MRI-controlled transurethral ultrasound prostate therapy: validation of numerical simulations and demonstration in tissue-mimicking gel phantoms. Physics in Medicine and Biology, 2010, 55, 6817-6839.	1.6	20
44	In vivopreclinical evaluation of the accuracy of toroidal-shaped HIFU treatments using a tumor-mimic model. Physics in Medicine and Biology, 2010, 55, 2137-2154.	1.6	13
45	Segmental liver resection assisted by HIFU: tissue precauterization using a toroidal-shaped HIFU transducer. , 2010, , .		0
46	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, 6353-6368.	1.6	41
47	Thermal ablation of liver tumors by high-intensity-focused ultrasound using a toroid transducer. Results of animal experiments. , 2009, , .		0
48	Comparative study of the effects of respiratory motion on in-vivo HIFU treatments in the liver. , 2009, , .		6
49	Preclinical Evaluation of the Accuracy of HIFU Treatments Using a Tumor-Mimic Model. Results of Animal Experiments. , 2009, , .		1
50	Thermal Ablation by High-Intensity-Focused Ultrasound Using a Toroid Transducer Increases the Coagulated Volume and Allows Coagulation Near Portal and Hepatic veins in Pigs. , 2009, , .		0
51	A toroidial-shaped HIFU transducer for assisting hepatic resection: a complementary tool for surgery. , 2009, , .		0
52	Impact of Real Liver Motion on HIFU Treatments: an in-vivo-data-based modeling. AIP Conference Proceedings, 2009, , .	0.3	1
53	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, 425-435.	0.7	63
54	High-Intensity Focused Ultrasound Ablation for the Treatment of Colorectal Liver Metastases During an Open Procedure. Annals of Surgery, 2009, 249, 129-136.	2.1	37

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55	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, 1934-1943.	0.7	36
56	Ultrasound surgery with a toric transducer allows the treatment of large volumes over short periods of time. Applied Physics Letters, 2007, 91, .	1.5	39
57	P0-5 An In Vivo Tumor-Mimic Model for Evaluating the Accuracy of HIFU Treatments: Preclinical Studies. , 2007, , .		0
58	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.	0.5	2
59	P3C-1 Modelling of In Vivo Liver Motion on HIFU Treatments: A Combined Method. Proceedings IEEE Ultrasonics Symposium, 2007, , .	0.0	0
60	5A-4 Thermal Ablation by Ultrasound: Increasing the Coagulated Volume. Proceedings IEEE Ultrasonics Symposium, 2007, , .	0.0	0
61	Toric HIFU Transducer for Large Thermal Ablation. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 230-3.	0.5	3
62	Ultrasound Thermal Ablation in a Tumor-Mimic Pig Liver Model. AIP Conference Proceedings, 2007, , .	0.3	1
63	P2G-3 A Tumor-Mimic Pig Liver Model For Ultrasound Thermal Ablation. , 2006, , .		0