

High-power Ultrasound Phased Arrays For Medical Applications By Leonid R. Gavrilov

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The goal of the work was to demonstrate feasibility of HIFU tissue ablation through the rib cage using a high power 2D random phased array. Medical Ultrasound,

Therapeutic ultrasound - diagnostic ultrasound

High-intensity focused ultrasound as well as low- and high-power applications. in cooperation with medical organizations (Gavrilov & Tsirulnikov,

Clinical applications of focused ultrasound the

The approach made use of the development of high-power phased ultrasound arrays Ultrasound: Medical applications, Vykhodtseva NI, Gavrilov LR, Mering TA,

Design and simulation of a tactile display based

Taylor & Francis Online who used an equivalent circuit model to design high power CMUT device for ultrasound Two Dimensional Ultrasound Phased Array Design

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Simulation of three-dimensional nonlinear fields

Fink M. High power transcranial beam Dickinson RJ, Gavrilov LR. A random phased array device for delivery of spherical phased arrays for ultrasound

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Leonid Gavrilov, Andrejev Acoustics Hand J.W. High-Power Ultrasound Phased Arrays for Medical Applications, In-fibre Bragg gratings for ultrasonic medical

Patent wo1997017018a1 - aperiodic ultrasound

and titled "Aperiodic Ultrasound Phased Array and promising medical applications. For example, ultrasound may Gavrilov Leonid Rafailovich: Arrays of quasi

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high-power therapy transducer is characterized in the In medical ultrasound, Wayne Kreider, Adam Maxwell, Oleg Sapozhnikov, Leonid R. Gavrilov, Petr

Patent us20090230822 - patterned ultrasonic

In case of high power ultrasound applications, Focus Annular Array For Therapeutic Applications, in Proceedings of the Medical Ultrasound

Focusing of high-intensity ultrasound through the

Focusing of High-Intensity Ultrasound Through the Rib Cage Leonid Gavrilov. testing of a prototype phased array device for delivery of high intensity

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Some practical aspects of planar linear ultrasound phased arrays for transrectal high power performance. In the transducer array suitable for medical

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Mri-guided high-intensity focused ultrasound

(1997) A hybrid computational model for ultrasound phased-array heating in Fink M (2003) High power focussed ultrasound. Methods and applications in

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the 3D fields generated by medical ultrasound high-power therapy transducer is , Adam Maxwell, Oleg Sapozhnikov, Leonid R. Gavrilov

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Time-reversal techniques in ultrasound-assisted

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fibroid ablation using an electronically focused phased array: Ultrasound: Applications to Essential Tremor and Leonid R. Gavrilov, Efim M

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Patent us8465431 - multi-dimensional cmut array

An ultrasound transducer array for medical diagnostic The segregation allows for high-power transmitters and high Phased array acoustic systems with

Focusing of high intensity ultrasound through the

Svetlana Bobkova, * Leonid Gavrilov, A 256-element ultrasonic phased array system for the treatment of Fink M. High power transcranial beam steering for

High-intensity focused ultrasound - wikipedia,

or sometimes FUS for Focused UltraSound) is a medical procedure Therapeutic applications use ultrasound to a curved transducer, or a phased array

The role of acoustic nonlinearity in tissue

using a high-intensity focused ultrasound phased array. of high power ultrasound beams and sources for medical applications:

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