

Subject: Editor's Selection of Articles in IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control

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Editor's Selection of Articles in IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control – December 2014 edition

2014 Articles

Transverse spectral velocity estimation

Jensen, Jorgen

[IEEE T-UFFC, Vol 61, Iss 11, pp 1815-23 \(2014\)](#)

Superharmonic imaging with chirp coded excitation: filtering spectrally overlapped harmonics.

Harput, Sevan; McLaughlan, James; Cowell, David M J; Freear, Steven

[IEEE T-UFFC, Vol 61, Iss 11, pp 1802-14 \(2014\)](#)

Effect of subaperture beamforming on phase coherence imaging.

Hasegawa, Hideyuki; Kanai, Hiroshi

[IEEE T-UFFC, Vol 61, Iss 11, pp 1779-90 \(2014\)](#)

A Preliminary Engineering Design of Intravascular Dual-Frequency Transducers for Contrast-Enhanced Acoustic Angiography and Molecular Imaging

Ma, Jianguo; Martin, K. Heath; Dayton, Paul A.; Jiang, Xiaoning

[IEEE T-UFFC, Vol 61, Iss 5, pp 870-880 \(2014\)](#)

Dynamic Frame Pairing in Real-Time Freehand Elastography

Xia, Rongmin; Tao, Guozhi; Thittai, Arun Kumar

[IEEE T-UFFC, Vol 61, Iss 6, pp 979-985 \(2014\)](#)

Review of High-Power Ultrasound-Industrial Applications and Measurement Methods

Harvey, Gerald; Gachagan, Anthony; Mutasa, Tapiwa

[IEEE T-UFFC, Vol 61, Iss 3, pp 481-495 \(2014\)](#)

Application of Conformal Map Theory for Design of 2-D Ultrasonic Array Structure for NDT Imaging Application: A Feasibility Study

Ramadas, Sivaram N.; Jackson, Joseph C.; Dziejewicz, Jerzy; O'Leary, Richard; Gachagan, Anthony

[IEEE T-UFFC, Vol 61, Iss 3, pp 496-504 \(2014\)](#)

An IVUS Transducer for Microbubble Therapies

Kilroy, Joseph P.; Patil, Abhay V.; Rychak, Joshua J.; Hossack, John A.

[IEEE T-UFFC, Vol 61, Iss 3, pp 441-449 \(2014\)](#)

2013 Articles

Dependence of the Reversibility of Focused-Ultrasound-Induced Blood-Brain Barrier Opening on Pressure and Pulse Length In Vivo

Samiotaki, Gesthimani; Konofagou, Elisa E.

[IEEE T-UFFC, Vol 60, Iss 11, pp 2257-2265 \(2013\)](#)

Microbubble cavitation imaging

Vignon, Francois; Shi, William T.; Powers, Jeffry E.; Everbach, E. Carr; Liu, Jinjin; Gao, Shunji; Xie, Feng; Porter, Thomas R.
[IEEE T-UFFC, Vol 60, Iss 4, pp 661-670 \(2013\)](#)

High-performance surface acoustic wave resonators in the 1 to 3 GHz range using a ScAlN/6H-SiC structure

Hashimoto, Ken-ya; Sato, Shuhei; Teshigahara, Akihiko; Nakamura, Takuya; Kano, Kazuhiko
[IEEE T-UFFC, Vol 60, Iss 3, pp 637-642 \(2013\)](#)

High-Sensitivity Open-Loop Electronics for Gravimetric Acoustic-Wave-Based Sensors

Rabus, David; Friedt, Jean-Michel; Ballandras, Sylvain; Martin, Gilles; Carry, Emile; Blondeau-Patissier, Virginie
[IEEE T-UFFC, Vol 60, Iss 6, pp 1219-1226 \(2013\)](#)

Combining radiation force with cavitation for enhanced sonothrombolysis.

Chuang, Yueh-Hsun; Cheng, Po-Wen; Li, Pai-Chi
[IEEE T-UFFC, Vol 60, Iss 1, pp 97-104 \(2013\)](#)

A Square-Plate Ultrasonic Linear Motor Operating in Two Orthogonal First Bending Modes

Chen, Zhijiang; Li, Xiaotian; Chen, Jianguo; Dong, Shuxiang
[IEEE T-UFFC, Vol 60, Iss 1, pp 115-120 \(2013\)](#)

Frequency- and Phase-Sensitive Magnetomotive Ultrasound Imaging of Superparamagnetic Iron Oxide Nanoparticles

Evertsson, Maria; Cinthio, Magnus; Fredriksson, Sarah; Olsson, Fredrik; Persson, Hans W.; Jansson, Tomas
[IEEE T-UFFC, Vol 60, Iss 3, pp 481-491 \(2013\)](#)

Probing heterogeneity of cortical bone with ultrasound axial transmission

Foiret, Josquin; Grimal, Quentin; Talmant, Maryline; Longo, Roberto; Laugier, Pascal
[IEEE T-UFFC, Vol 60, Iss 1, pp 187-193 \(2013\)](#)

Based on citation reports of November 2014 for articles published in 2013 and 2014

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