ULTRASONICS

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DESCRIPTION

Ultrasonics is the only internationally established journal which covers the entire field of ultrasound research and technology and all its many applications. Ultrasonics contains a variety of sections to keep readers fully informed and up-to-date on the whole spectrum of research and development throughout the world. Ultrasonics publishes papers of exceptional quality and of relevance to both academia and industry. Manuscripts in which ultrasonics is a central issue and not simply an incidental tool or minor issue, are welcomed.

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**Keywords:** ultrasonic propagation, scattering and attenuation, transducers, guided waves, ultrasonic applications, biomedical ultrasound, therapeutic ultrasound, NDE, bubble dynamics, laser ultrasound

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(High power ultrasonics, industrial applications, ultrasonic process monitoring, ultrasonic joining, ultrasonic cleaning and ultrasonic fatigue)

Youngho Cho, School of Mechanical Engineering, Pusan National University, San 30, Jangjeon-Dong, Geumjeong-Gu, 609-735, P(B)usan, The Republic of Korea, Fax: +82 51 514 7640  
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Vascular ultrasound; B-mode imaging; Image analysis.
Quentin Grimal, Biomedical Imaging Lab, Université Pierre et Marie Curie, 15, rue de l'école de médecine, 75006, Paris, France
Biomedical ultrasound; Ultrasonics of bone and cartilage; Guided waves in bone; Resonant ultrasonic spectroscopy; Nonlinear acoustics of bone; Measurement of physical properties of bone; Diagnosis and treatment of bone diseases.

Sigrun Hirsekorn, Fraunhofer Institut für zerstörungsfreie Prüfverfahren (IZFP), Universitaet 37, 66123, Saarbrücken, Germany, Fax: +49 681 9302 5903
(Non-linear ultrasonics; acoustic and near-field acoustic microscopy; ultrasonic scattering)

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Non-destructive Evaluation (NDE); Structural Health Monitoring (SHM); Guided ultrasonic wave; Wave propagation modeling; Non-linear ultrasonics.

Peter Lewin, Dept. of Electrical & Computer Engineering, Drexel University, 3141 Chestnut Street, Philadelphia, Pennsylvania, PA 19104, USA, Fax: +1 215 895 4983
(Bio-medical ultrasonics, including bio-medical instrumentation, transducers, systems and signal processing; interaction of ultrasound and biological tissue)

Margaret Lucas, School of Engineering, University of Glasgow, G12 8QQ, Glasgow, UK
Power ultrasonics; Surgical devices; Industrial applications.

Osamu Matsuda, Fac. of Engineering, Materials Chemistry division, , Division of Applied Physics, Hokkaido University, N13W8, Kita-ku, 060-8628, Sapporo, Japan, Fax: +81-11-706-6859
Phonon physics; Phononic crystals; Phononic metamaterials; Ultrafast spectroscopy; Picosecond ultrasonics; Phonon imaging.

Jennifer Michaels, School of Electrical and Computer Engineering, Georgia Institute of Technology, 777 Atlantic Drive, Atlanta, Georgia, GA 30332-0250, USA
Ultrasonic signal processing; Ultrasonic imaging; Ultrasonic NDE; Ultrasonic SHM; Ultrasonic wavefield imaging.

Michiel Postema, Inst. of Fundamental Technological Research (IPPT), Polish Academy of Sciences, ulica Adolfa Pawińskiego 5B, 02-106, Warsaw, Poland
Medical ultrasound; Bubbles; Antibubbles; Droplets; Cavitation; Radiation forces.

Zhongqing Su, Dept. of Mechanical Engineering, The Hong Kong Polytechnic University, Hung Hom, Kowloon, Hong Kong, China, Fax: +852-2365-4703
Structural Health Monitoring (SHM); Wave Propagation; Ultrasonics; Sensors and Sensor Networks; Non-destructive Evaluation (NDE); Smart Materials and Structures; Advanced Composite Materials.

Gail ter Haar, Dept. of Physics, The Royal Marsden NHS Trust, Downs Road, SM2 5PT, Sutton, UK, Fax: +44 208 643 3812
Ultrasonic bio-effects; Safety of medical ultrasound; Therapeutic ultrasound.
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