**ULTRASONICS**

**AUTHOR INFORMATION PACK**

**TABLE OF CONTENTS**

- Description p.1
- Audience p.2
- Impact Factor p.2
- Abstracting and Indexing p.2
- Editorial Board p.2
- Guide for Authors p.4

**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

In case you are interested in reviewing for Ultrasonics, please send your interests and short resume to the Editor-in-Chief directly.

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Structural Health Monitoring (SHM); Wave Propagation; Ultrasonics; Sensors and Sensor Networks; Non-destructive Evaluation (NDE); Smart Materials and Structures; Advanced Composite Materials.

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Non-destructive Evaluation (NDE); Structural Health Monitoring (SHM); Guided wave ultrasonics; Non-linear ultrasonics; Tomography ultrasonics; Laser ultrasonics.  
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Non-Destructive Evaluation (NDE), Structural Health Monitoring (SHM), Ultrasonic modelling, Ultrasonic guided waves.
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Vascular ultrasound; B-mode imaging; Image analysis.

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Biomedical ultrasound; Ultrasounds 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.

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Acoustic and near field acoustic microscopy, Isotropic and anisotropic materials characterization, Non-linear ultrasonics, Ultrasonics of polycrystalline/granular materials

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Phonon physics; Phononic crystals; Phononic metamaterials; Ultrafast spectroscopy; Picosecond ultrasonics; Phonon imaging.

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Ultrasonic signal processing; Ultrasonic imaging; Ultrasonic NDE; Ultrasonic SHM; Ultrasonic wavefield imaging.

Michael Neidrauer, School of Biomedical Engineering, Drexel University, 3141 Chestnut St, Philadelphia, Pennsylvania, USA
Biomedical ultrasonics, Biomedical optics, Biomedical instrumentation, Acousto-optic systems, Interaction of ultrasound and biological tissue

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Medical ultrasound; Bubbles; Antibubbles; Droplets; Cavitation; Radiation forces.

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Ultrasonic bio-effects; Safety of medical ultrasound; Therapeutic ultrasound.

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