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Special Issue on

Advances in Therapeutic Ultrasound Applications

CALL FOR PAPERS

With modern developments in acoustics, clinical medicine, and nanobiotechnology, biomedical ultrasound has been rapidly evolving from a diagnostic tool into a promising therapeutic modality over the past decades. Taking its advantages of noninvasive energy delivery, great safety without ionic radiation, easy incorporation into portable devices, real-time monitoring possibility, and low cost, therapeutic ultrasound has attracted growing interests in a wide range of clinical applications, such as tumor ablation, gene/drug delivery, thrombolysis, and extracorporeal shock wave treatments.

We invite overview and original papers describing current developments and expected challenges along with potential solutions for this special issue. Both experimental and theoretical papers are welcome.

Potential topics include but are not limited to the following:

- Development of new methods, tools, or systems that can significantly benefit therapeutic ultrasound applications
- Theory, modeling, and numerical simulation of phenomena observed or mechanisms involved in therapeutic ultrasound applications
- Fabrication, processing, and characterization of ultrasound contrast agents
- Establishment of cellular or animal models relevant to therapeutic ultrasound experimentation
- Innovative methods that can be used to monitor or quantitatively evaluate the therapeutic effects in clinics

Authors can submit their manuscripts through the Manuscript Tracking System at http://mts.hindawi.com/submit/journals/bmri/biophysics/atua/.

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Manuscript Due
Friday, 2 June 2017

First Round of Reviews
Friday, 25 August 2017

Publication Date
Friday, 20 October 2017