TCSUH SPECIAL SEMINAR

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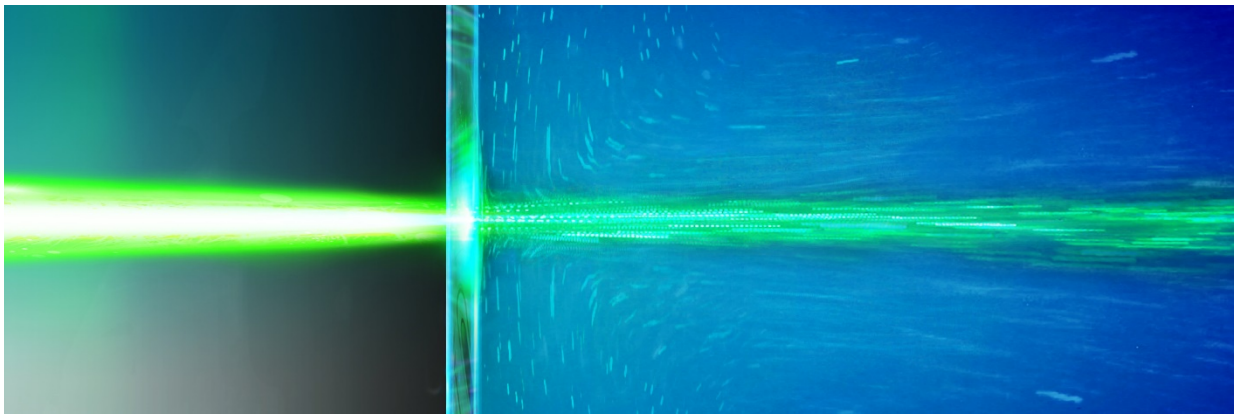
Friday, March 29, 2019

Room 102, Houston Science Center
1:00 p.m. – 2:00 p.m.

Photoacoustic Laser Streaming: Discovery, Principle, Applications and Challenges

ABSTRACT: Photoacoustic laser streaming is a new optofluidics principle that couples the photoacoustic effect to acoustic streaming. In this talk, I will share with you how it was discovered, its principle, potential applications and challenges.



Reference:

1. Yanan Wang, Qiuhui Zhang, Zhuan Zhu, Feng Lin, Jiangdong Deng, Geng Ku, Suchuan Dong, Shuo Song, Md Kamrul Alam, Dong Liu, Zhiming Wang and Jiming Bao, "Laser Streaming: Turning a Laser Beam into a Flow of Liquid" *Science Advances* **3**, e1700555 (2017).
2. Shuai Yue, Feng Lin, Qiuhui Zhang, Njumbe Epie, Suchuan Dong, Xiaonan Shan, Dong Liu, Wei-Kan Chu, Zhiming Wang, Jiming Bao "Gold-implanted plasmonic quartz plate as a launch pad for laser-driven photoacoustic microfluidic pumps" *Proceedings of the National Academy of Sciences* Latest Articles, https://www.pnas.org/cgi/doi/10.1073/pnas.1818911116.

BIO: Dr. Bao is an associate professor of electrical and computer engineering at the University of Houston. He graduated from Zhejiang University with B.S. and M.S. degrees in physics in 1992 and 1995, respectively. He obtained his Ph.D. in applied physics in 2003 from the University of Michigan, and then did post-doctoral research at Harvard University before joining the University of Houston in 2008 as an assistant professor. His current research covers many interdisciplinary topics. More information can be found from Dr. Bao's group website at http://nano.ee.uh.edu/. Dr. Bao is a Fellow of the Optical Society of America (OSA).

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