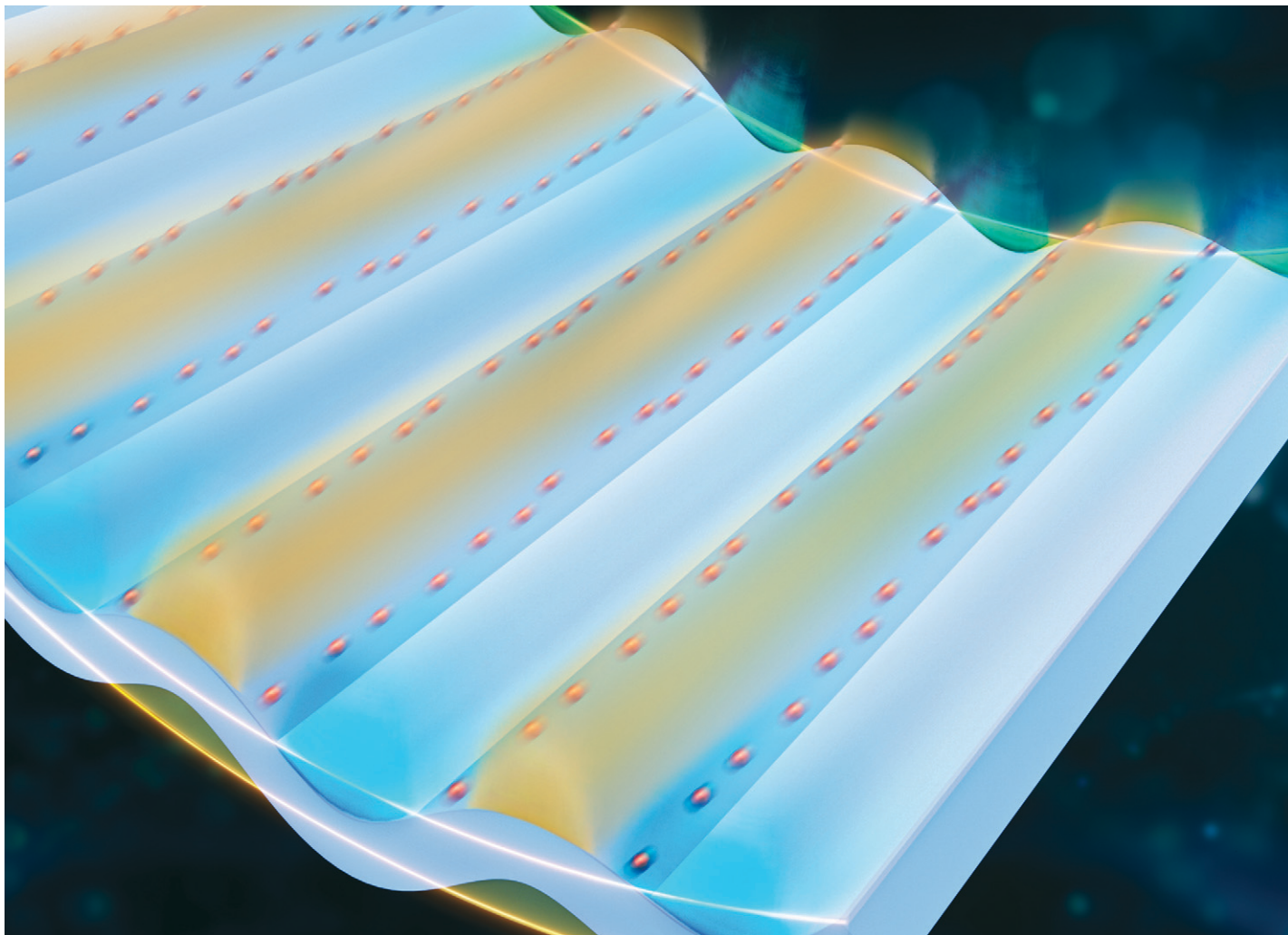




Showcasing research from Professor Feiyan Cai's group at the Paul C. Lauterbur Research Center for Biomedical Imaging, Shenzhen Institutes of Advanced Technology, Chinese Academy of Sciences, Shenzhen, China.

Trapping nanoscale particles *via* quasi-Scholte mode in acoustofluidics

A thin-foil-based acoustofluidic device utilizing the quasi-Scholte mode is developed for stable trapping and manipulation of nanoscale particles. Operating at low frequency, it generates strong evanescent fields with minimal streaming, enabling reliable confinement across large areas. With its simple structure and scalable fabrication, this cost-effective platform offers broad potential for applications in bioengineering, nanofabrication, and biomedical research, establishing quasi-Scholte waves as a powerful foundation for nanoscale acoustofluidics.

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As featured in:



See Feiyan Cai, Jianjian Wang and Yongqing Fu *et al.*, *Lab Chip*, 2025, **25**, 5777.