



**Showcasing research from Professor Haiyang Zou's laboratory, School of Materials Science and Engineering, Sichuan University, Chengdu, China.**

Fluid-based triboelectric nanogenerators: unveiling the prolific landscape of renewable energy harvesting and beyond

Fluidic Triboelectric Nanogenerators (F-TENGs) harness the abundant energy within fluids, offering a promising avenue for renewable energy generation. By converting fluid motion into electricity, F-TENGs represent a sustainable solution with the potential to reshape the renewable energy landscape. Our research delves into F-TENGs, exploring their theoretical underpinnings, optimization methods, and diverse applications. Through systematic exploration, we aim to advance F-TENG technology, positioning it as a transformative force in the quest for sustainable energy solutions, aligning with broader societal goals of environmental stewardship and energy sustainability.

### As featured in:



See Haiyang Zou,  
Zhong Lin Wang *et al.*,  
*Energy Environ. Sci.*, 2024, **17**, 3700.