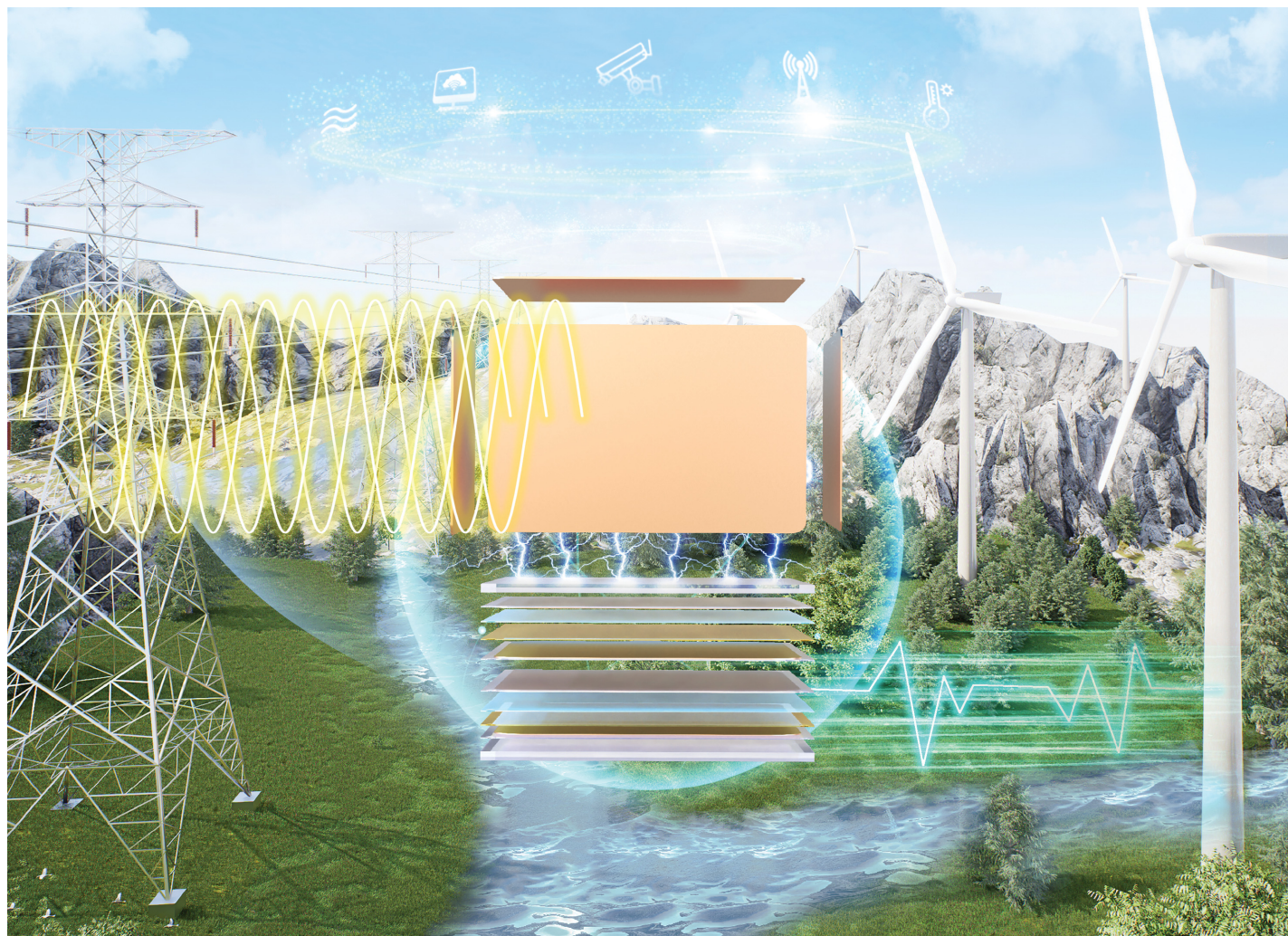




**Showcasing research from Professor She Chen's laboratory,
College of Electrical and Information Engineering,
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**An ultrahigh performance hybrid energy harvester
leveraging the induced charge excitation strategy**

Hybrid energy harvesters offer promising solutions for powering distributed sensors. Herein we present an ultrahigh performance hybrid nanogenerator leveraging the induced charge excitation strategy. The induced charge generated by the pump-electrode is pumped into the stacked triboelectric nanogenerator electrodes, creating a synergistic, deeply-coupled, and highly-efficient process for simultaneously harvesting electric-field and vibration energy. This unique hybrid energy harvesting paradigm offers a sustainable energy solution for self-powered sensors for smart grids, intelligent transportation, and smart cities and may inspire the next-generation hybrid nanogenerators.

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See Yi Li, Sixing Xu, She Chen *et al.*,
Energy Environ. Sci., 2025, **18**, 4665.