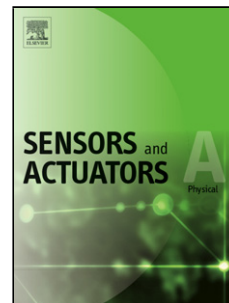


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Highlights

Two-dimensional vibration energy harvester is realized by combining its two primary in-plane vibration modes

Vertical pull-in and horizontal damping electrostatic force can be reduced by integrating two separate capacitive circuits into a sandwich structure

The whole device is constructed by silicon-based micro-fabrication compatible with CMOS MEMS technology.

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