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Title: High efficiency piezoelectric energy harvester with synchronized switching interface circuit

Author: <ce:author id="aut0005" biographyid="vt0005"> Philipp Becker<ce:author id="aut0010" biographyid="vt0010"> Erwin Hymon<ce:author id="aut0015" biographyid="vt0015"> Bernd Folkmer<ce:author id="aut0020" biographyid="vt0020"> Yiannos Manoli



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High efficiency piezoelectric energy harvester with synchronized switching interface circuit

- We present a new vibration driven energy harvesting device with two piezoelectric coupled generator structures
- The transducer uses a four-point-bending principle for uniform stress distribution.
- The interface circuitry uses synchronized switching techniques and energy injection for optimizing the power transfer.
- An efficiency benefit by a factor of three, compared to standard devices can be achieved.

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