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Authors: Ming Yuan, Ziping Cao, Jun Luo, Jinya Zhang,  
Cheng Chang



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## An efficient low-frequency acoustic energy harvester

Ming Yuan<sup>1\*</sup>, Ziping Cao<sup>2\*</sup>, Jun Luo<sup>2</sup>, Jinya Zhang<sup>3</sup>, Cheng Chang<sup>4</sup>

<sup>1</sup>. School of Automation, Nanjing University of Posts and Telecommunications, 210024 Nanjing, P.R. China;

<sup>2</sup>. School of Telecommunications and Information Engineering, Nanjing University of Posts and Telecommunications, 210024 Nanjing, P.R. China;

<sup>3</sup>. School of Electronic Science and Engineering, Nanjing University of Posts and Telecommunications, 210024 Nanjing, P.R. China;

<sup>4</sup>. Xinxiang Wanhe Filtration Technology CO., LTD, 453000 Xinxiang, P.R. China.

\*Corresponding author: caozp@njupt.edu.cn, yuanming@njupt.edu.cn

### Highlights

- An efficient acoustic energy harvester is proposed.
- This harvester is suitable for low frequency acoustic band.
- The acoustic resonance frequency can be tuned to match the mechanical resonance frequency, the resonance coupling can improve the harvester's performance significantly.
- Measured results are compared with the previous study results to demonstrate its performance.

### Abstract

Here, an efficient acoustic energy harvester is proposed that is suitable for low-frequency bands. It is composed of a tunable Helmholtz resonator with a flexible

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