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the shelves of available journals in
that area.
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Simply drag and drop the journal onto one of the four color coded bookshelves. You can add up to 64 individual journals.
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Zhao, Dongliang; Tan, Gang

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Xie, Ying; Wang, Yunyang

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Three-dimensional and experimental investigation on the effect of cone length of throttle valve on thermal performance of an vortex tube using in a turbulence model
Articles may take a few seconds to load.
A review of thermoelectric cooling: Materials, modeling and applications

Dongliang Zhao, Gang Tan*

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**HIGHLIGHTS**

- Thermoelectric cooling has great prospects with thermoelectric material's advances.
- Modeling techniques for both thermoelement and TEC have been reviewed.
- Principle thermoelectric cooling applications have been reviewed and summarized.

**ABSTRACT**

This study reviews the recent advances of thermoelectric materials, modeling approaches, and applications. Thermoelectric cooling systems have advantages over conventional cooling devices, including compact in size, light in weight, high reliability, no mechanical moving parts, no working fluid, being powered by direct current, and easily switching between cooling and heating modes. In this study, historical development of thermoelectric cooling has been briefly introduced first. Next, the development of thermoelectric materials has been given and the achievements in past decade have been discussed. The modeling techniques for the thermoelectric element and the thermoelectric coolers have been carefully reviewed. Finally, prominent applications, which have been widely used in industry, have been summarized.
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