

Magnetic Refrigerant Material for Near Room Temperature Applications

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Technology Summary

Magnetic refrigeration (MR) technology presently is considered as the most promising alternative to conventional gas compression HVACR systems. However, implementation of MR technology cannot proceed unless new high performance magnetic refrigerant materials are provided. The present invention relates to new, high-performance, multicomponent NiMn-based alloys that are characterized by enhanced near room temperature magnetocaloric effect.

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