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## Thermoelectric Materials Based on Tetrahedrite Structure for Thermoelectric Devices

Tech ID: 24590 / UC Case 2013-066-0

### INNOVATION

Professor Vidvuds Ozolins and colleagues have devised a new class of lightweight and low-cost compounds for thermoelectric devices. Traditionally, thermoelectric materials are comprised of elements that are toxic, and of low abundance. This technology utilizes earth-abundant, light atomic mass compounds with tetrahedrite structures to produce high-efficiency thermoelectrics via basic, scalable processing techniques. The technology has potential applications in numerous energy-related industries, including automotive and solar cells.

### PATENT STATUS

Country	Type	Number	Dated	Case
United States Of America	Issued Patent	10,658,560	05/19/2020	2013-066
Japan	Issued Patent	6219386	10/06/2017	2013-066
United States Of America	Issued Patent	9,673,369	06/06/2017	2013-066
Canada	Published Application	WO2014008414	01/09/2014	2013-066
Republic Of Korea (South Korea)	Published Application	WO2014008414	01/09/2014	2013-066

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### INVENTORS

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### OTHER INFORMATION

#### KEYWORDS

Thermoelectrics, tetrahedrite, solar cells

#### CATEGORIZED AS

- ▶ Energy
  - ▶ Other
  - ▶ Solar
  - ▶ Transmission
- ▶ Materials & Chemicals
  - ▶ Chemicals
  - ▶ Nanomaterials
  - ▶ Other

#### RELATED CASES

2013-066-0

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