

Narrowband, Acoustically Mediated Spintronic Terahertz Emitter

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WARF: P200099US01

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The Invention

Acoustically mediated spintronic THz emitters in which sound waves, rather than direct laser pulses, give rise to a spin current in a magnetic material via magnetoelastic coupling are provided. The THz emitters include a metal layer that acts as a light-to-acoustic transducer. Also provided are THz time-domain spectrometers (THz-TDSs) that incorporate the THz emitters.

Stage of Development

The development of this technology was supported by WARF Accelerator. WARF Accelerator selects WARF's most commercially promising technologies and provides expert assistance and funding to enable achievement of commercially significant milestones. WARF believes that these technologies are especially attractive opportunities for licensing.

Additional Information

For More Information About the Inventors

• Jiamian Hu

Tech Fields

- <u>Semiconductors & Integrated Circuits : Components & materials</u>
- Semiconductors & Integrated Circuits : Design & fabrication

For current licensing status, please contact Michael Carey at mcarey@warf.org or 608-960-9867

