



TeraSpinTec

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[THz Emitters](#)

[THz Detection](#)

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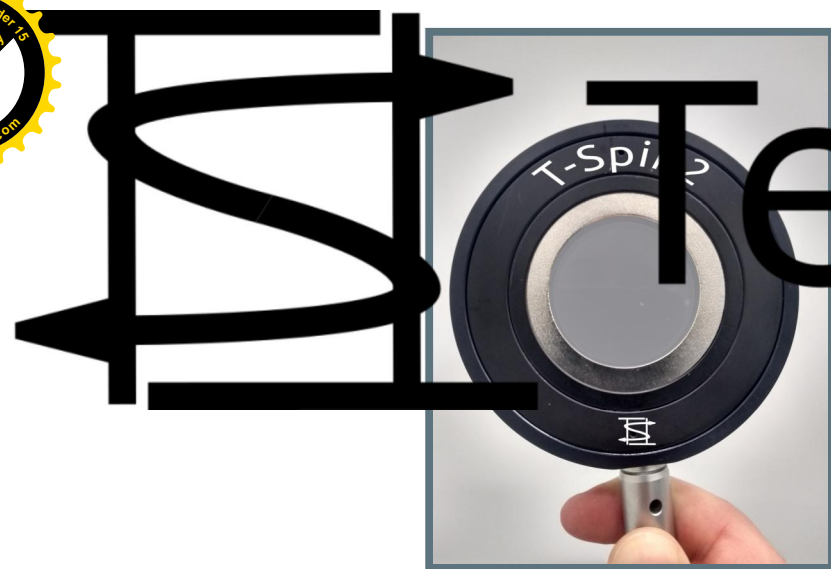
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T-Spin1

Compact spintronic terahertz emitter with integrated permanent magnet for plug-and-play operation.

- Mounted inside a 360° rotation mount for flexible adjustment of the terahertz polarization.
- Ideal for focused excitation



T-Spin2

Large scale spintronic terahertz emitter with integrated permanent magnet for plug-and-play operation.

- Mounted inside a 360° rotation mount for flexible adjustment of the terahertz polarization.
- Ideal for collimated-beam excitation with up to >30 mm in diameter

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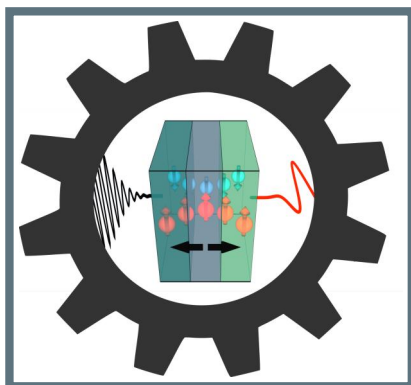
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Next-gen THz sources

Upcoming: T-Spin1X and T-Spin2X

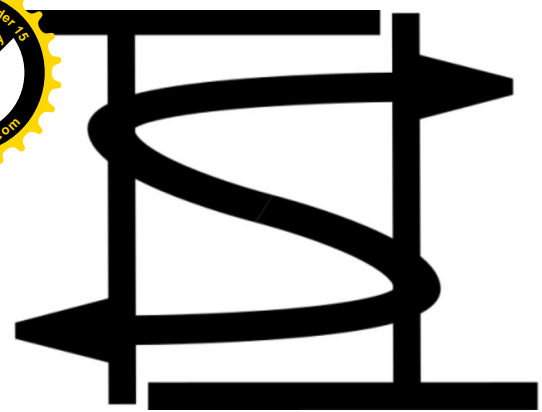
Enhanced efficiency: Outperforming standard THz sources like LiNbO3 as shown here
(<https://journals.aps.org/prapplied/abstract/10.1103/PhysRevApplied.19.034018>)



Custom Solutions

Design your own spintronic terahertz source on substrates of almost arbitrary shapes and materials

- Diameters of up to 20 cm
- Flexible substrates such as PTFE sheets
- Curved surfaces such as lenses etc.



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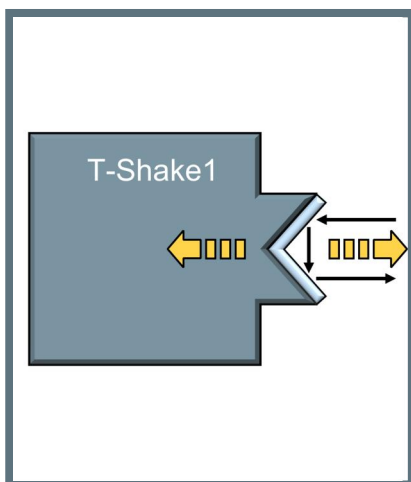
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T-Sense1

Compact spintronic terahertz detector based on a GaP (110) crystal with 30 μm thickness

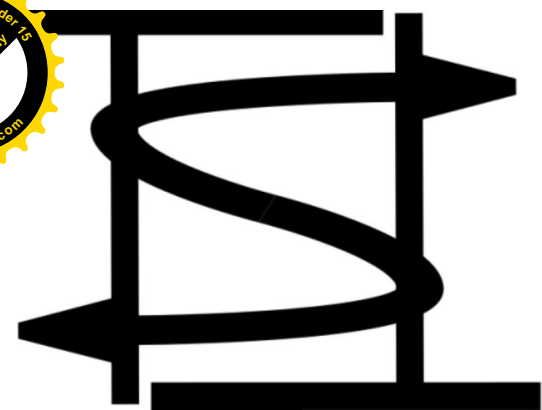
- Ultrabroadband THz-detection bandwidth enabled by the thinnest design on the market



T-Shake1

Compact and high-precision delay stage for up to 50 ps delay scans at rates of 10s of Hz

- Allows for quasi real-time terahertz waveform measurements as shown here (<https://www.youtube.com/watch?v=N-FLnHiLDd0&t=2s>)
- Scan range adjustable from femtoseconds up to 50 ps
- Position tracking and external triggering possible
- Includes a software package and LabView drivers



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