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Polarization shaped terahertz

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sources play a key factor in terahertz wireless communications, biological sensing, imaging, coherent control in fundamental sciences, and so on. Recently developed spintronic terahertz emitters have been considered as

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one of the next-generation
promising high performance
broadband terahertz sources.

Generation and manipulation of
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As of 2012, viable sources of terahertz radiation are the gyrotron, the backward wave oscillator ("BWO"), the organic gas far infrared laser, Schottky diode multipliers, varactor multipliers, quantum cascade laser, the free

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electron laser, synchrotron light sources, photomixing sources, single-cycle or pulsed sources used in terahertz time domain spectroscopy such as photoconductive, surface field, photo-Dember and optical

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rectification emitters, and
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power sources, with power greater than 10 mW (2017) this area is defined as "terahertz bandgap", because it has not been studied ...

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Josephson junctions serve as sources of terahertz and sub-terahertz radiation in superconductors [90, 91].

Terahertz lasers have been built from the archetypical elemental

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semiconductors, germanium and silicon [92, 93]. Semiconductor lasers include electrically pumped photonic-crystal lasers of low angular divergence .

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A review of terahertz sources -
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Terahertz generation & terahertz physics. A photoconductive emitter consists of an engineered semiconductor substrate with an antenna structure patterned onto

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it. When the output of a femtosecond laser is focused onto the emitter, the light is absorbed within the material and charge carriers (electron-hole pairs) are generated.

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2. Terahertz sources There are many sources of terahertz radiation. A small sampling is given in table 1. Extraterrestrial thermal

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sources include the sun and the cosmic background radiation [40]. Common laboratory thermal sources are the mercury lamp [41] and the globar, an electrically heated rod of silicon carbide (SiC). Various schemes

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Terahertz sources and generators |

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Terahertz photoconductive
antennas (THz-PCAs) are widely
used to generate terahertz
broadband pulses and terahertz

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narrowband continuous-wave (cw) signals. 24 Since their demonstration as practical THz sources and detectors, THz-PCAs have been the subject of a vast number of scientific and industrial reports investigating their

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application as terahertz wave
transmitters and receivers.

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oscillator terahertz sources will demand novel and efficient power-combined frequency multiplier structures able to handle the increasing available power provided by state-of-the-art solid-state sources and amplifiers at W-

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development of the next generation of terahertz optoelectronic devices. Terahertz photonics including microscopy and quantum cascade lasers This theme covers several research fields involving THz photonics, with a specific interest

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In this chapter, terahertz source and detector technologies are reviewed. Terahertz signal generation and detection in

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terahertz photoconductive antennas are studied, and their performances under continuous-wave and pulsed mode operation are compared. ... The LT-In 0.53 Ga 0.47 As-In 0.52 Al 0.48 As system shows promise for next generation

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terahertz platform helps characterize next-generation terahertz detectors. Researchers from Frankfurt University, Ferdinand-Braun Institute, and Vilnius University have improved the performance of TeraFETs using

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electronic and photonic sources.

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ns, an average power of 9 nW, and
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As of 2012, viable sources of
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oscillator ("BWO"), the organic gas far infrared laser, Schottky diode multipliers, varactor multipliers, quantum cascade laser, the free electron laser, synchrotron light sources, photomixing sources, single-cycle or pulsed sources used

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in terahertz time domain spectroscopy such as photoconductive, surface field, photo-Dember and optical rectification emitters, and electronic oscillators based on resonant ...

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terahertz radiation in superconductors [90, 91]. Terahertz lasers have been built from the archetypical elemental semiconductors, germanium and silicon [92, 93]. Semiconductor lasers include electrically pumped

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physics. A photoconductive emitter consists of an engineered semiconductor substrate with an antenna structure patterned onto it. When the output of a femtosecond laser is focused onto the emitter, the light is absorbed

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2. Terahertz sources There are many sources of terahertz radiation. A small sampling is given in table 1. Extraterrestrial thermal sources include the sun and the cosmic background radiation [40]. Common laboratory thermal

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source are the mercury lamp [41] and the globar, an electrically heated rod of carborundum (SiC). Various schemes

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Terahertz photoconductive antennas (THz-PCAs) are widely used to generate terahertz broadband pulses and terahertz narrowband continuous-wave (cw) signals. 24 Since their demonstration as practical THz

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sources and detectors, THz-PCAs have been the subject of a vast number of scientific and industrial reports investigating their application as terahertz wave transmitters and receivers.

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