

# This Week in PHOTONICS

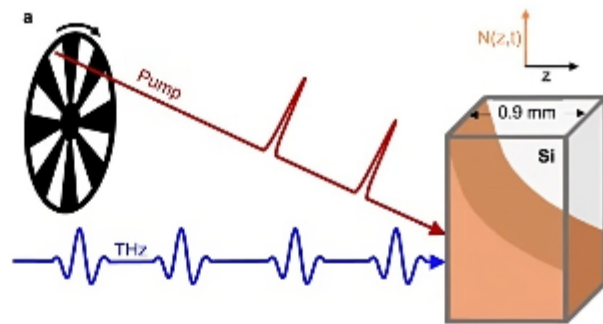
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### Time-Resolved Spectroscopy Offers Look into Irreversible Phenomena

A team of researchers at the University of Ottawa developed a terahertz (THz) spectroscopy technique for recording movies in real time at 50,000 fps.

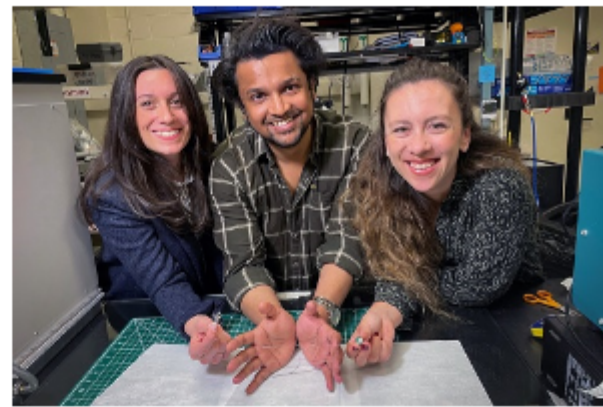
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### Optogenetics Shows Relationship Between Brain and Gut Health

The brain-gut connection is known to influence hunger and mood, and it has also been associated with neurological and other disorders. To explore the signaling that occurs between these two organs, scientists at MIT integrated light sources, thermal sensors, microelectronics, and microfluidics in a device that enables stable bioelectronic interfaces with the brain and gastrointestinal tract in mice.

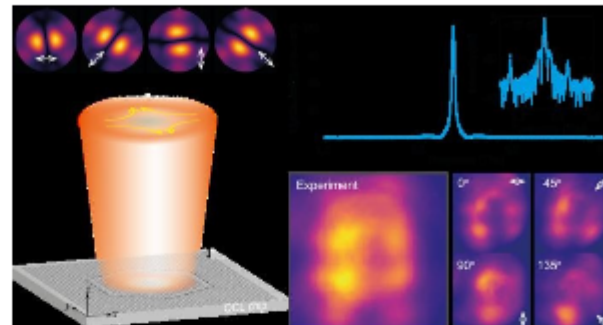
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### Compact, Single-Mode THz QCLs Get Boost from BICs

A team at Nanyang Technological University (NTU) developed an electrically pumped, topological, bulk quantum cascade laser (QCL) that operates in the terahertz (THz) frequency range. The THz QCL is governed by a mechanism known as bound states in the continuum (BICs). BICs are waves that remain localized even though they coexist with a continuous spectrum of radiating waves that can carry energy away. BICs can confine light with a theoretically infinite Q factor, which can improve light-matter interaction.

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