







## Hyperfine Spectrometer

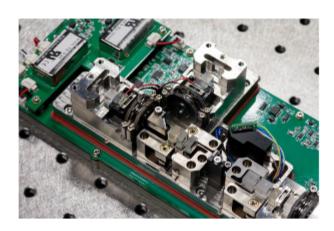
A sub-picometer resolution spectrometer in a compact package.

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### Quantum Entanglement Demonstrated Aboard Orbiting CubeSat

An international research team led by the National University of Singapore has generated and detected quantum entanglement onboard a CubeSat nanosatellite weighing less than 2.6 kg and orbiting Earth.

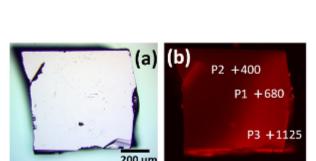
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## Photoluminescence Techniques Map, Measure Semiconductor Thermal Conductivity

A joint research group has developed two new optical techniques photoluminescence mapping (PL-mapping) and time-domain thermophotoluminescence (TDTP) — that provide rapid, nondestructive characterization of k in materials and that require minimal sample preparation.

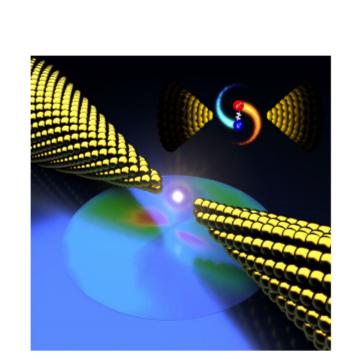
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## Massive Light Emission from Nanogap Between Plasmonic Electrodes

While investigating above-threshold light emission from electromigrated tunnel junctions, researchers from Rice University and the University of Colorado Boulder discovered that an unexpectedly bright emission could emerge from a nanoscale gap between two electrodes made of plasmonic materials, particularly gold.

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Optics and Photonics, Second Edition

LIGHT: Introduction to

Photonics Media

Offering a comprehensive treatment of the subject as well as key applications, and employing minimal math, LIGHT: Introduction to Optics and Photonics was written with readers in mind. This textbook is for

beginning students of optics and photonics in high school, community college, and university STEM courses.

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## Aplanatic Objective AdlOptica GmbH

The aplanoXX\_NA0.8 objective for diffraction limited focusing from AdlOptica GmbH features a

numerical aperture of 0.8 inside transparent materials with compensation for spherical aberration at depths ranging from 0 to 4 mm. Its high optical resistance to radiation of high power ultra-short pulse lasers with wavelengths of...

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# Beam Shaping: The Next Step for Ultrashort-Pulse-Laser-Based Processes

**Upcoming Webinars** 



Thu, Jul 16, 2020 10:00 AM - 11:00 AM EDT The use of ultrashort pulse (USP) lasers in industrial processes is growing, thanks to the high

standard of quality that can be achieved. For widespread industrial use of USP lasers to be realized,

however, two key challenges need to be solved: The yield has to strongly increase for the process to be cost-effective, and improvement in quality will lead to the processing of new materials and the development of new markets. This webinar will present how beam shaping can solve these two challenges, and how multiplane light conversion (MPLC) can achieve yield and quality improvement while being compatible with industrial setups.

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