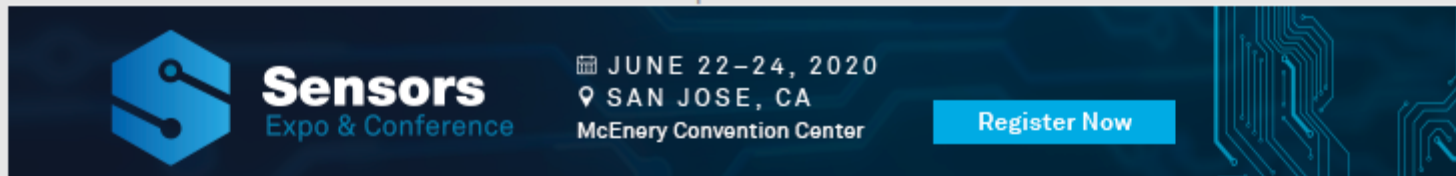


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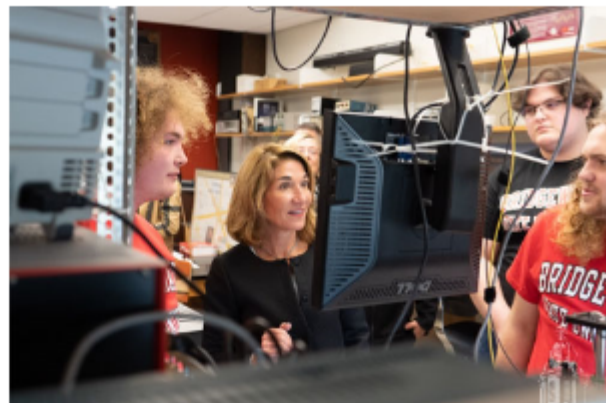
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### SPIE, OSA, and IEEE Fund a New Photonics Program for Students

To support the development of future photonics professionals, the Institute of Electrical and Electronics Engineers (IEEE) Photonics Society, the International Society for Optics and Photonics (SPIE), and the Optical Society (OSA) have each offered \$75,000 to fund tuition for the first 15 students of a new photonics technician program.

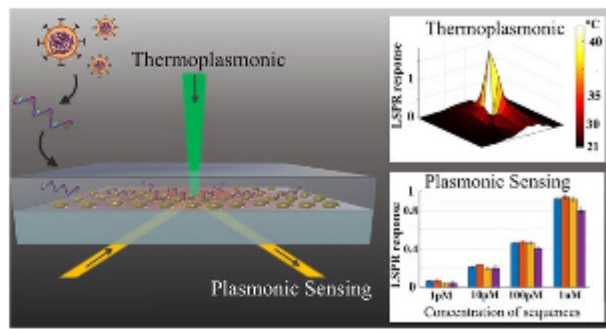
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### Biosensor Combines Thermal and Optical Methods to Detect Coronavirus

Research labs that measure and analyze airborne pollutants have a new focus — to develop a sensor that can detect the SARS-CoV-2 virus. The team of professor Jing Wang, who leads the Air Quality and Particle Technology group at ETH Zurich and a group at the Swiss Federal Laboratories for Materials Science and Technology (Empa), has developed an optical biosensor that uses thermal effects to detect the virus safely and reliably.

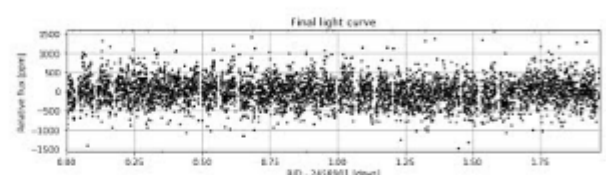
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### CHEOPS Space Telescope Ready for Operation

The CHEOPS space telescope was declared ready for space exploration by the European Space Agency (ESA) late last month and has begun collecting observations of known exoplanet-hosting stars. The telescope is a joint mission between the ESA and Switzerland under the leadership of the University of Bern in collaboration with the University of Geneva (UNIGE).

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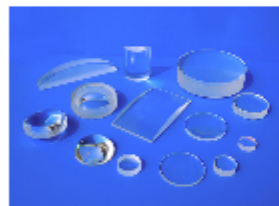


### 818-RAD Irradiance and Dosage Photodiode Sensor

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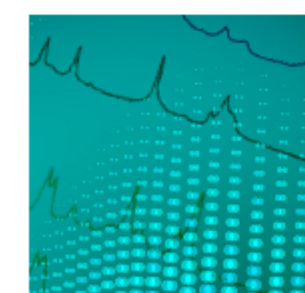
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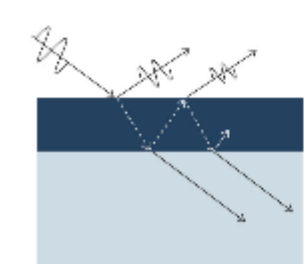


### Raman Spectroscopy: Theory, Practice, and Applications

Wed, May 6, 2020 1:00 PM - 2:00 PM EDT

This webinar, presented by Hamamatsu Corp., will review the basic theory behind normal, resonant, and surface-enhanced Raman scattering. It will discuss the hardware required in a working Raman spectrometer; describe data analysis and presentation; and give examples of common applications. In addition, it will examine some of the market challenges and solutions.

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### Ellipsometry: What Is It and What Can It Do for You?

Wed, May 13, 2020 1:00 PM - 2:00 PM EDT

Spectroscopic ellipsometry is a nondestructive technique that uses polarized light to probe a sample. In this webinar, presented by the J.A. Woollam Co., you will learn about the fundamental principles of ellipsometry, how these principles lead to highly accurate measurements of coating thickness and optical properties, and how ellipsometry measurements compare to other characterization techniques.

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