

### .: Top Stories

### Light Powers Butterfly-Inspired Hydrogen Sensor

Butterfly wings are the inspiration for a light-activated hydrogen sensor device capable of producing ultraprecise results at room temperature. Tests demonstrated the sensor's ability to detect hydrogen leaks before they develop to a point at which they could pose a safety risk.

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### Researchers from the University of Copenhagen's Niels Bohr Institute

Nanochip Outlines Path for Quantum Advantage

and the University of Bochum (Germany) developed a chip with scaleup potential that they say will serve as a core component of a quantum simulator. The researchers produced a large enough number of stable photons, encoded with information, to scale up their nanochip device.

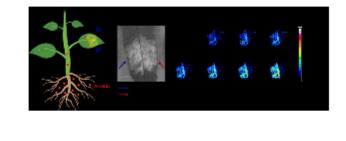
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### Levels A novel plant nanobionic optical sensor, capable of both detecting and,

Optical Nanosensor Helps Plants Detect, Monitor Arsenic

in real time, monitoring levels of arsenic in underground environments, exhibits changes in fluorescence intensity to indicate the presence and quantity of the metal. Read Article



## Optical Approaches for Clinical Use

.: Photonics Spectra Conference

Presentation: Biophotonics Technologies Applied at Point of Care Presented by: Juergen Popp, Leibniz Institute of Photonic Technology The ability to pair Raman spectroscopy with other optical modalities is allowing clinicians and medical

surgical procedure, advances in optical instrumentation are driving progress in biomedical research and practice.

personnel to provide care outside of highly specialized laboratory settings. From cellular imaging to

Juergen Popp, scientific director of the Leibniz Institute of Photonic Technology, Jena, and editor of the Journal of

Biophotonics, presents an online session introducing an automated Raman platform that incorporates the function of specifically developed chips to enable microbial analysis. Popp's presentation will also include discussion on the usability of multimodal microscopes, and their role in and surgery and in-vivo medical imaging.

Biophotonics Technologies Applied at Point of Care is part of the Biomedical Imaging track of the Photonics Spectra Conference. Presentations will introduce the latest trends and technologies from across the photonics landscape. Registration remains open.

free for the event, which is offered exclusively online.

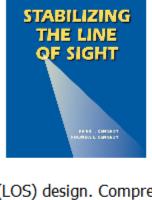
The inaugural *Photonics Spectra* Conference starts on Tuesday, Jan. 19, and runs through Friday, Jan. 22. Registration is

For more information and to register, www.photonics.com/pscinfo.

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Sight

.: Featured Products



Photonics Media

In Stabilizing the Line of

Stabilizing the Line of

# Sight, authors Peter J. and

Rhonda L. Kennedy provide a methodology and an example for executing a successful end-to-end line-of-sight (LOS) design. Comprehensive in scope, this book will give readers a better understanding of the

relationships between the various engineering disciplines that are required for successful LOS control. Visit Website Request Info

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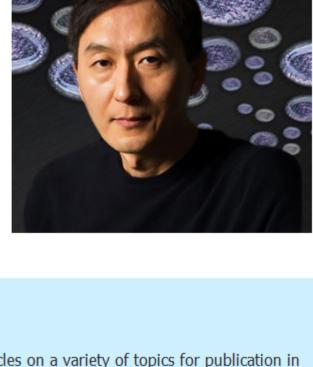
# .: All Things Photonics

the Institute of Optics at the University of Rochester, discusses his work in laser processing, leading to the discovery of highly functionalized materials. Guo's research, including with black and colored metals, is addressing societal issues including global access to clean water. Chrys Panayiotou, executive director of LASER-TEC, joins

Chunlei Guo, from the High-Intensity Femtosecond Laser Laboratory in

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us to talk about developing a highly skilled optics and photonics





workforce.

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