

# This Week in PHOTONICS

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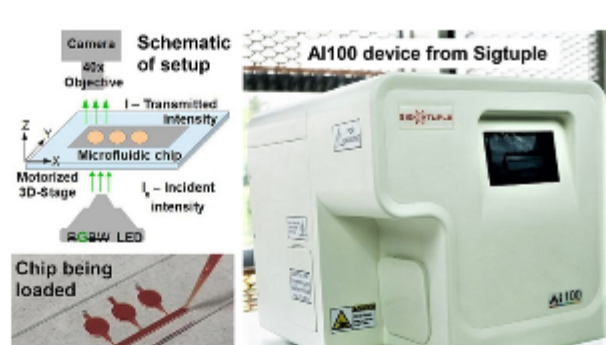
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## .: Top Stories

### Diagnostic Solution, Powered by Microfluidic Chip, Leads to Inexpensive Hemoglobin Measurements

SigTuple Technologies and the Indian Institute of Science demonstrated an AI-powered, imaging-based tool for the estimation of hemoglobin levels. The setup combines a microfluidic chip and an AI-enabled microscope designed for deriving the total, as well as differential counts, of blood cells. The method uses a microfluidic chip and reagent, costing less than \$0.14, as well as a detector in the form of a conventional microscopy camera.



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### Graphene Tech Aids in Copper Additive Manufacturing

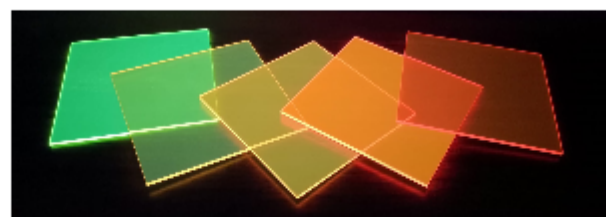
Uppsala University researchers, in collaboration with graphene materials company Graphmatech, demonstrated a method for lowering the reflectivity of copper powder. The work could lead to more densely printed parts through laser additive manufacturing (AM).



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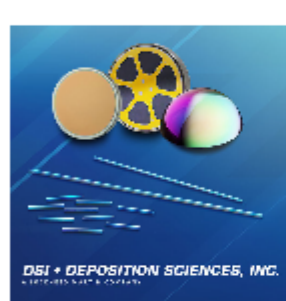
### Polymer Layer 'Waveguide' Helps Luminescent Windows Generate Light Energy

An advancement to smart window technology incorporates luminescent solar concentrators (LSCs) into window or windowpane designs. A team from Rice University's Brown School of Engineering designed its foot-square "windows" by placing a conjugated polymer between two clear acrylic panels. The technique aims to solve energy generation and efficiency issues that face building structures.



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## .: Featured Products



### Difficult Coatings Made Easy

#### Deposition Sciences Inc. (DSI)

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Introducing a UV/Vis/NIR instrument that's flexible and accurate enough to handle whatever comes your way. With a two sample compartment and a wide choice of universal and specialized accessory options, the LAMBDA™ 1050+ spectrophotometer delivers greater sensitivity, resolution, and scanning speed for your...

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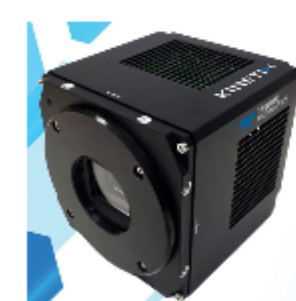
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[ICLED-Powered Sensor Charts Course for Cost-Effective Methane Detection](#)

[BIOLASE Promotes John Beaver to President, CEO](#)

## .: Upcoming Webinars



### How the Kinetix sCMOS Camera Broke the Golden Rule of Compromise in Scientific Imaging

Tue, Mar 23, 2021 1:00 PM - 2:00 PM EDT

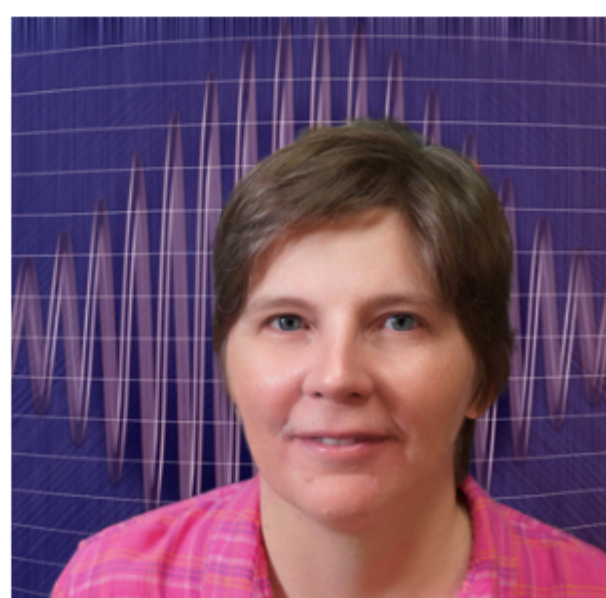
Product and applications experts from Teledyne Photometrics are joined by leading imaging scientists to discuss how the latest developments in scientific CMOS (sCMOS) technology are opening up new possibilities in imaging. Presenters Dan Croucher, Ph.D. and Rachit Mohindra discuss how they are using the Kinetix to solve challenges from the high-speed collection of large, 3D volumes in live cells to the lowest light single molecule and super-resolution imaging. Presented by Teledyne Photometrics.

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## .: All Things Photonics

Frequency combs have revolutionized time and frequency metrology, making stops along the way to key developments in optical clocks, and, as it turns out, broadband spectroscopy. In a conversation that veers from interferometry to holography, and optoelectronics to solid-state lasing, Nathalie Picque from Max Planck Institute for Quantum Optics shares insights about her latest research. UCLA's Aydogan Ozcan is back for the second part of a conversation about "Terahertz pulse shaping using diffractive surfaces."

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### CALL FOR ARTICLES!

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