

# This Week in PHOTONICS



**LightMachinery**  
Excellence in Lasers and Optics



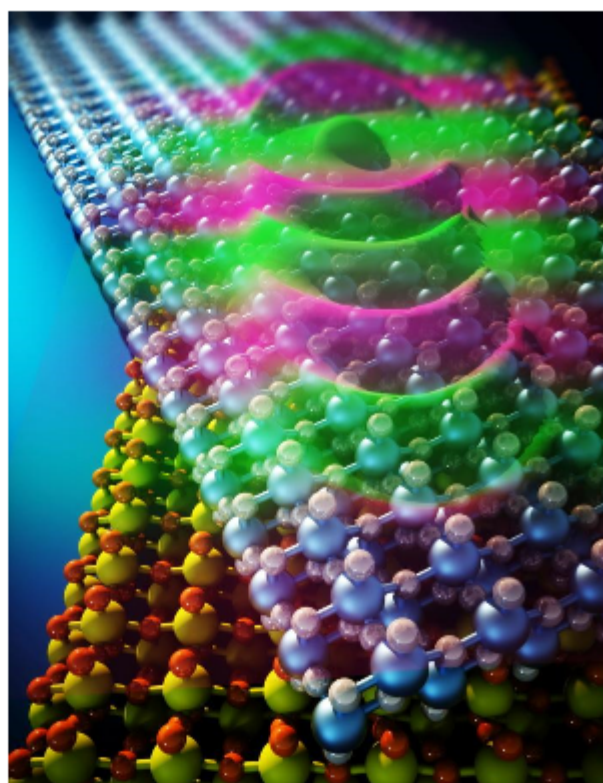
**Hyperfine Spectrometer**  
A sub-picometer resolution spectrometer in a compact package.

## Top Stories

### Twisted Layers of 2D Materials Can Be Used to Propagate and Control Light

An international scientific team has demonstrated that twistrionics — the science of layering and twisting 2D materials to control their electrical properties — can be used to manipulate the flow of light in extreme ways. The findings could help drive advances in light-driven technologies including nanoimaging, optical computing, and biosensing.

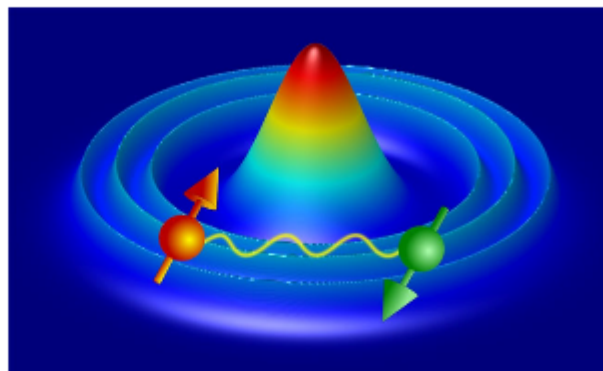
[Read Article](#)



### Ultracold Atoms in Optical Traps Could Form Quantum Rings

Ultracold atoms trapped in appropriately prepared optical traps can arrange themselves in complex, hitherto unobserved structures, according to scientists from the Institute of Nuclear Physics of the Polish Academy of Sciences. In accordance with their recent work, the scientists said, matter in optical lattices should form tensile and inhomogeneous quantum rings in a controlled manner.

[Read Article](#)



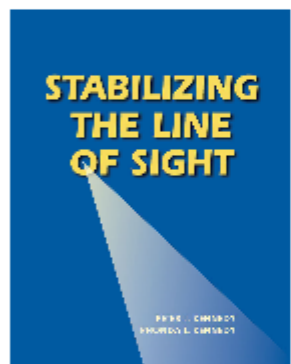
### Google to Present End-to-End System for Immersive Light Field Video

Google will demonstrate a system for capturing, reconstructing, compressing, and rendering high-quality immersive light field video, at bandwidths low enough to be streamed over regular Wi-Fi, at the SIGGRAPH 2020 virtual conference. In the new system, wide field-of-view scenes can be recorded and played back with the ability to move around within the video after it has been captured.

[Read Article](#)



## Featured Products



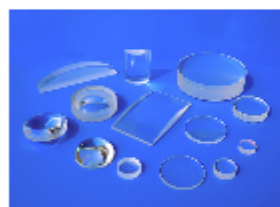
### Stabilizing the Line of Sight

**Photonics Media**  
In *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](#)



### High Quality Customized and Standard Optical Lenses

**CeNing Optics Co. Ltd.**

CeNing Optics has been producing high-quality optical lenses since 2004. With a variety of manufacturing facilities, and an experienced and skillful team, we can produce lenses from 3.0 mm to 300 mm diameter range. The lenses can be with common and special curvatures like plano-convex, plano-concave, Bi-concave, Bi-convex, and meniscus.

[Visit Website](#)

[Request Info](#)



**SEMICON WEST 50 YEARS**

JULY 20-23, 2020  
VIRTUAL EVENT

[REGISTER NOW](#)

[semiconwest.org](http://semiconwest.org)



The premier conference for innovators adding computer vision and visual AI to products.

**2020 embedded vision summit**

VIRTUAL CONFERENCE | SEPT 15-25

Save 10% with code **PHOTONICSSUMMIT20-V**

[REGISTER TODAY!](#)

## More News

[Imaging Method Could Detect Liver Disease](#) [Read Article](#)

[3D-Printed Living Tissues a Step Closer](#) [Read Article](#)

[AIM Photonics Announces New CEO](#) [Read Article](#)

[SPIE, University of Colorado Announce \\$2.5M Baur-SPIE Endowed Chair](#) [Read Article](#)

[CytoSMART Technologies Appoints Supervisory Board Members](#) [Read Article](#)

## Upcoming Webinars



### Radiometric Accuracy and Commercial UAVs: A Clash of Cultures?

Tue, Jul 7, 2020 1:00 PM - 2:00 PM EDT

Data used to infer crop stress and related properties have traditionally been collected by highly accurate electro-optical systems aboard satellites, and validated using other calibrated sensors imaging the same territory. Radiometric calibration methods in the commercial UAV industry have developed differently, often sheltered within the industry's ecosystem. When accuracy counts, do commercial UAVs make the grade? Come join this webinar with Barbara Grant, founder of Grant Drone Solutions LLC, for an overview of relevant issues, and suggestions for the way forward.

[Register Now](#)



### CALL FOR ARTICLES!

Photonics Media is currently seeking technical feature articles on a variety of topics for publication in our magazines (*Photonics Spectra*, *BioPhotonics*, *Vision Spectra*, and *EuroPhotonics*). Please submit an informal 100-word abstract to [editorial@Photonics.com](mailto:editorial@Photonics.com), or use our [online submission form](#).



We respect your time and privacy. You are receiving this email because you are a Photonics Media subscriber, and/or a member of our website, Photonics.com. You may use the links below to manage your subscriptions or contact us.

Questions: [info@photonics.com](mailto:info@photonics.com)

[Unsubscribe](#) | [Subscribe](#) | [Subscriptions](#) | [Privacy Policy](#) | [Terms and Conditions of Use](#)

Photonics Media, 100 West St., PO Box 4949, Pittsfield, MA 01202-4949

© 1996 - 2020 Laurin Publishing. All rights reserved. Photonics.com is Registered with the U.S. Patent & Trademark Office. Reproduction in whole or in part without permission is prohibited.