

This Week in PHOTONICS



ALL THINGS PHOTONICS

A podcast from Photonics Media

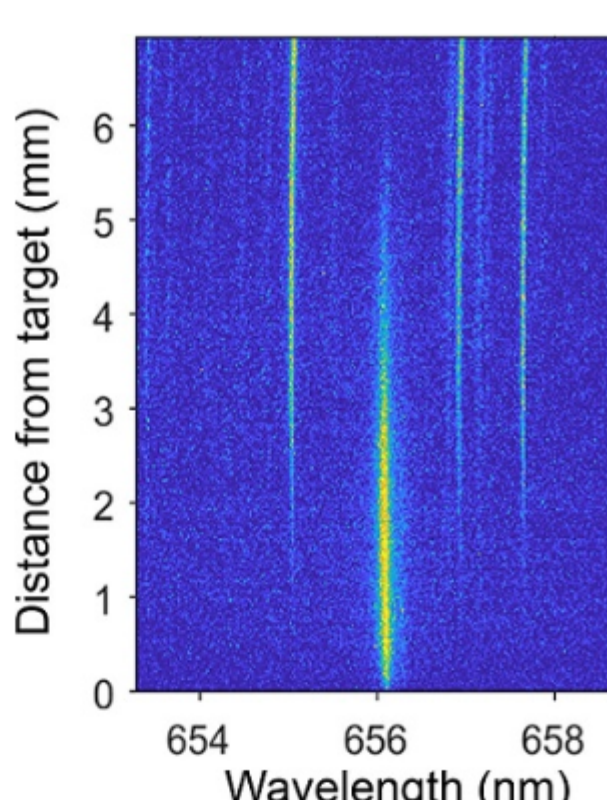


Top Stories

LIBS, 2D Spectral Imaging Combine to Improve Isotopic Measurements

Pacific Northwest National Laboratory researchers have improved laser-induced breakdown spectroscopy (LIBS) measurements of hydrogen isotopes in what they characterized as "industrial important" alloys. In optimizing an ultrafast laser with certain, controlled environmental conditions, the analytical technique revealed where and when emissions from hydrogen isotopes were the strongest.

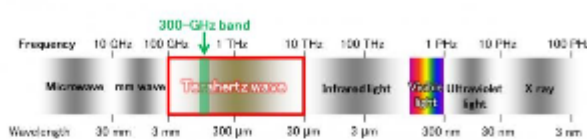
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Industry-Academia Collaborators Use Terahertz to Move Beyond 5G

Partners from Osaka University and Rohm Co. Ltd., a developer and manufacturer of optoelectronics and semiconductor devices, deployed 300-GHz-band terahertz waves, functioning as an information carrier, to enable wireless communications of 8K ultrahigh definition (UHD) with a data rate of 48 Gbit/s.

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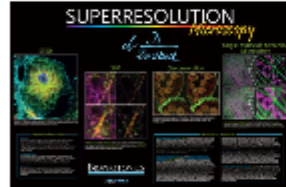
Metamaterial Tiles Perform in Vast Temperature Range, Support Highly Sensitive Measurements

Metamaterial tiles are poised to improve the sensitivity of telescopes currently under development at Simons Observatory in Chile. A multi-institutional team created the tiles, which have been incorporated into the receivers of telescopes that scientists at the observatory will deploy next year.

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Featured Products



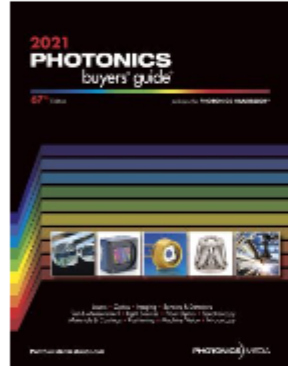
Superresolution Microscopy Poster

Photonic Media

With interest in the superresolution microscopy field growing rapidly, the editors of BioPhotonics magazine — in collaboration with acknowledged experts — created a poster with readers in mind that is suitable for lab, classroom and office. It features visually stunning, high-resolution images that reveal never-before-seen worlds at the sub-cellular level, illustrating the value of the techniques.

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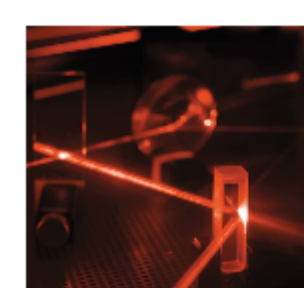
[Light Source Offers Improved Evaluation of Quantum Materials](#)

[Fraunhofer ILT, Collaborators Develop Repair and Laser-Coating Process for Metal Components](#)

[Metasurface Tech Allows for More Efficient Optical Storage](#)



Upcoming Webinars



Choosing the Right Fused Silica for Applications in the Near-Infrared (NIR)

Tue, Mar 2, 2021 1:00 PM - 2:00 PM EST

The range of applications in the NIR spectrum is expanding. Many of these are laser based. Finding the most suitable fused silica for a particular application can be challenging. In this webinar with Todd Jaeger, Ph.D., Head of Sales - Optics at Heraeus Conamic, you will learn about what material properties effect performance, what characteristics are key for your application and how to balance price and performance. Presented by Heraeus Conamic (Heraeus Quartz North America).

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