

This Week in PHOTONICS



Picometer Resolution

Powered by Virtually Imaged Phase Arrays (VIPAs), LightMachinery's HyperFine spectrometers offer single shot, picometer resolution laser spectrum analysis.

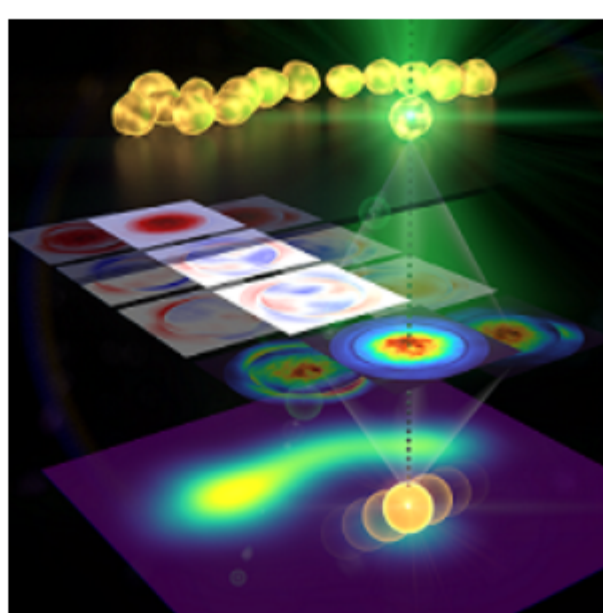


Top Stories

Noninvasive Imaging Method Measures Below the Diffraction Limit

A label-free microscopy technique developed by researchers at the University of Graz enables noninvasive, sub-diffraction-limit imaging of nanostructures. The all-linear, optical far-field measurement and imaging technique measures the position and size of nanoparticles with nanometer precision, even when the particles are adjacent.

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Technique Streamlines AR Coating for 3D-Printed Micro-Optics

Researchers at the University of Stuttgart developed a low-temperature atomic layer deposition technique for applying antireflective coatings to lens surfaces in multi-lens systems. The technique could reduce reflectivity and enhance transmission in complex, 3D-printed micro-optics systems consisting of lenses as small as 600 μm .

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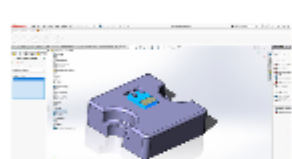
Innovation Award 2022 Winners Crowned at LASER World of PHOTONICS

The jury of the Innovation Award 2022 named winners of its annual awards at LASER World of PHOTONICS (LASER Munich), recognizing six companies that will take home top prizes in seven categories. The awards' overall winner, SI Stuttgart, earned the €5000 Innovation Prize that comes with the title of overall Innovation Award winner.

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Featured Products



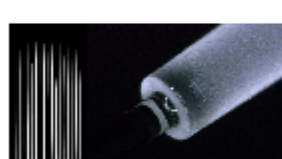
LightTools SOLIDWORKS Link Module

Synopsys Inc., Optical Solutions Group

Synopsys LightTools® software provides comprehensive workflows for illumination optics design. Features include interoperability with SOLIDWORKS for dynamic, efficient optomechanical modeling. Read the Synopsys blog article to learn about the latest SOLIDWORKS Link Module innovations.

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Upcoming Webinars



Expanding Implementation of Fast Optimization Technology for Photonics, Optics, and Quantum Manufacturing Applications

Tue, May 10, 2022 1:00 PM - 2:00 PM EDT

High-speed parallel alignment technology can dramatically shorten the time required to optimally align multiple optical or photonic elements, typically by 99% or more. Scott Jordan, head of photonics for PI (Physik Instrumente) L.P., shares how the fields of application have expanded from its original use in piezo nanopositioners to implementation into modular stacked-axis motion assemblies, gantry (Cartesian robot) configurations, and hexapod microrobots. This has brought the dramatic benefits of production economics to large-format applications, such as PCBs and trays. The technology is firmware-based, meaning that one intelligent command can autonomously optimize complex photonic and optical assemblies. Presented by PI (Physik Instrumente) L.P.

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