

This Week in PHOTONICS



ALL THINGS PHOTONICS

A podcast from Photonics Media

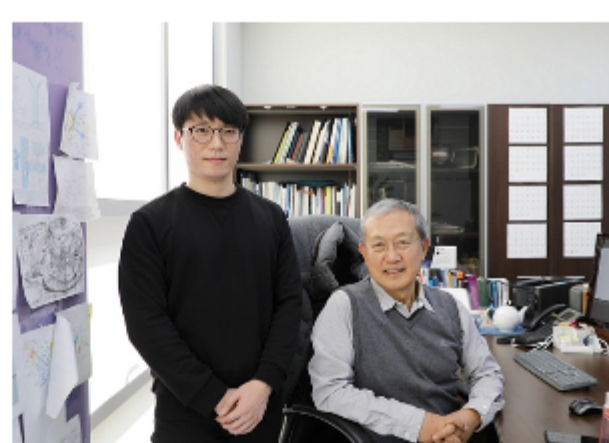


Top Stories

Graphene Enables Live Cell Imaging at the Nanoscale

Researchers at the Daegu Gyeongbuk Institute of Technology (DGIST) have introduced a method for analyzing subcellular structures using graphene. The work holds implications for the research of biological processes such as the mechanisms of certain diseases. The impetus for the work stems from a desire to step away from conventional imaging techniques, unable to deliver insight into a sample's structures.

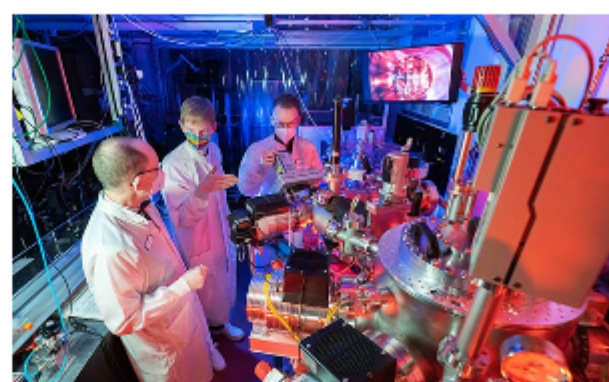
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Imaging Method Peers Within Semiconductor Structures

Researchers from the University of Jena have developed a method called coherence tomography with extreme ultraviolet light (XCT). The technique, which has applications in materials research and data processing, enables the study of the interior structures of semiconductor materials in a nondestructive way.

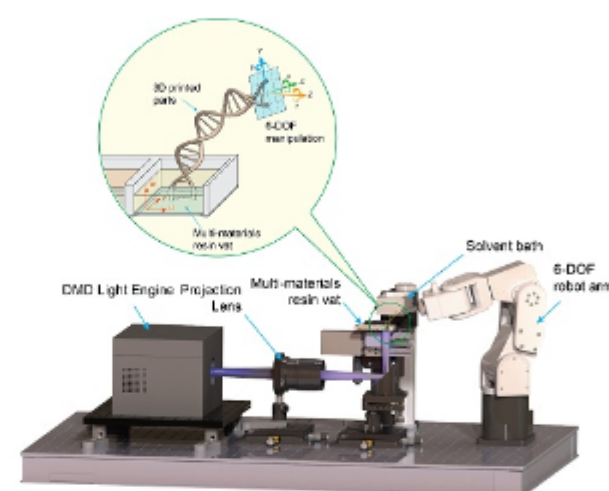
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Light-Powered Robotic Arm Increases 3D-Printing Manipulability

A research team at Northwestern University developed a method that uses light to improve the speed and precision of 3D printing. The method features a light-activated robotic arm paired with a liquid photopolymer. The system ensures free motion — the ability to rotate or dilate each individual printed layer — in the 3D-printing process as the structure is being built.

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Featured Products



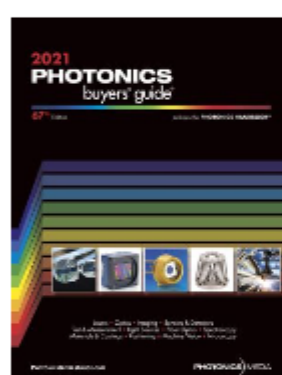
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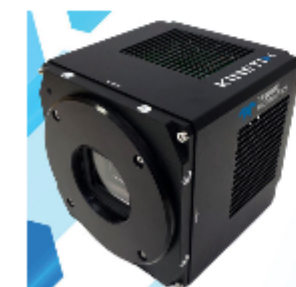
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Upcoming Webinars



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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