# This Week In











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**New Resources Added** 

# **Top Stories**

## A Tabletop OCT Approach Utilizes XUV Radiation Three-dimensional noninvasive imaging with nanoscale axial resolution has been

demonstrated using a high-harmonic extreme ultraviolet (XUV) radiation source. Specifically, XUV radiation was used to perform optical coherence tomography (OCT) at laboratory scale. Use of XUV to perform OCT allows for a shorter radiation wavelength to be used — 20-40 nm — leading to a higher-resolution image.



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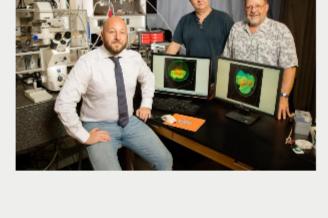








differential interference contrast (DIC) microscope, could provide a novel technique for extracting 3D information from thin and thick unlabeled specimens. In contrast to most microscopy techniques, GLIM can probe deep into thick samples by controlling the path over which light travels through the specimen. It can be used to produce images from multiple depths that can then be composited into a single 3D image. Read Article 🚱 🚹 🛅 💟







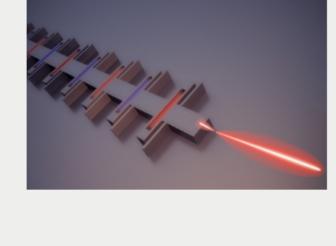


Tiny Terahertz Laser Aids Industrial Imaging



for future industrial imaging and chemical detection applications. The standard method for producing power-efficient sources of terahertz rays involves a bulky, power-hungry tabletop device.

A new terahertz design that can be etched on microchips boosts the power output of chip-mounted terahertz lasers by 80 percent. The novel design shows promise



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small **but** powerful

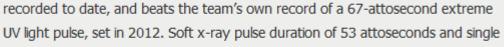
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The demonstration of a 53-attosecond x-ray flash is the fastest light pulse



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53-Attosecond Light Pulse Sets a Record

pulse streaking reaching the carbon K-absorption edge (284 electronvolt, or eV) were achieved by utilizing intense two-cycle driving pulses near 1.8-µm center wavelength. Read Article 🚱 🚹 🛅 💟



**Exceptional Points Enhance Sensing at Nanoscale** 







two nanoscale scatterers were used to tune a whispering-gallery-mode (WGM) micro-toroid cavity. Read Article (4)

creation of biomedical devices, electronics and biohazard detection devices. The novel sensing scheme for enhancing the sensitivity of optical microcavities was

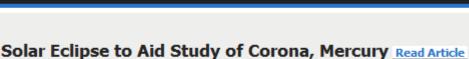
demonstrated using two light scatterers to tune sensors to exceptional points. The



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Optical Fabrication

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# Optical Fabrication PHOTOMES

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States

### techniques used in modern lens and optical component manufacturing. The book will serve as an introduction or

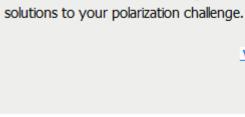
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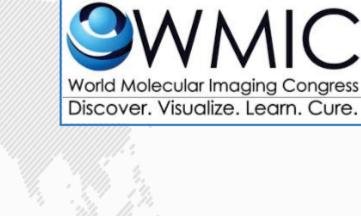
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cutting-edge advances in molecular imaging. The program includes exhibits, industry workshops and social events, including an evening at Philadelphia's

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