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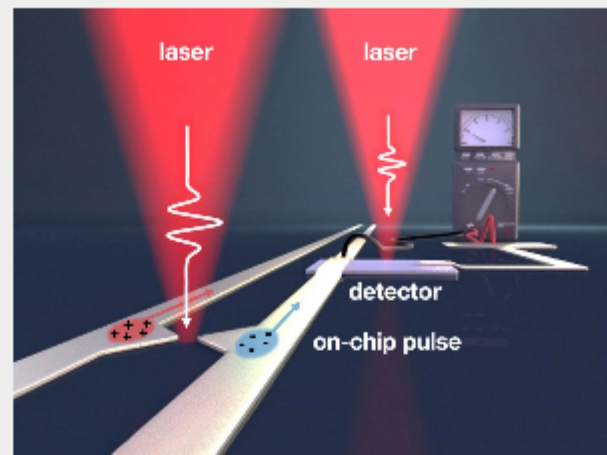


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Top Stories

Plasmonic Antennas Could Deliver Ultrafast Pulses for THz Electronics

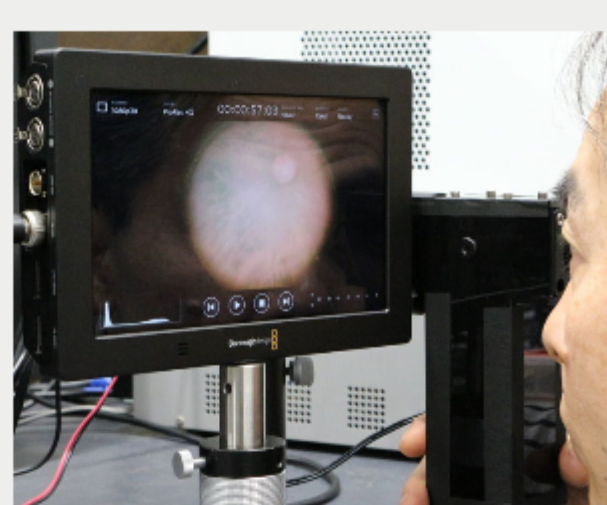
In an experiment that combined the advantages of femtosecond nanophotonics with on-chip communications, researchers demonstrated that femtosecond optical pulses in the NIR could drive electronic on-chip circuits with a prospective bandwidth of up to 10 THz.



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Portable Camera Module Could be Used at Home to Monitor Health

A compact eye fundus camera system has been developed that allows a user to photograph retinal images of the interior of the eye by using high-speed image-processing NIR light. The system is small enough to fit on a smartphone.



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Cloaking Material Can Conceal Hot Objects from IR

An ultrathin cloaking material has been developed that can hide hot objects, such as human bodies and military vehicles, from IR cameras. The new "stealth sheet" is <1 m thick and absorbs approximately 94 percent of the IR light it encounters.



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Featured Products

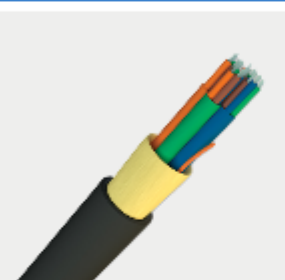
Laser Welding Photonic Devices



Amada Miyachi America Inc.
AMADA MIYACHI's LF range of fiber lasers are efficient, low maintenance manufacturing tools that offer precise control and a range of beam qualities which can be tuned for each specific welding application. They are particularly well suited for small component welding, like photonic device welding and electrical connections.

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Micro-Tactical Cable



AFL
AFL's new Micro-Tactical Fiber Optic Cable combines the ruggedness of military tactical cable designs with the ultra-high fiber density of AFL's micro-cable technology. Designed for rapid deployment in optical networks requiring high mechanical performance specifications, extreme environmental exposure, and highly dynamic operating conditions..

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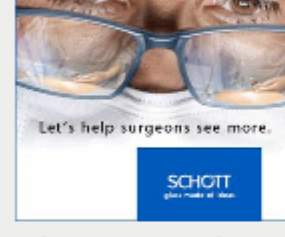
Remote Sensing



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From space and the sky around us to firmly on the ground, remote sensing is providing an important view of our surroundings that can't be seen with our eyes alone. A variety of optical technologies are having an impact on applications as diverse as agriculture and defense, weather and climate, and are now part of the...

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Light Mixer Generates 11 Colors Simultaneously

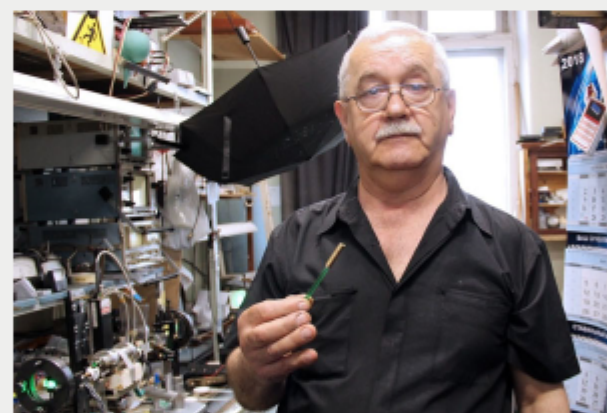
An optical frequency mixer has been developed that uses a novel nanostructured metamaterial to concurrently generate 11 different colors of light. The metamaterial is made from an array of gallium arsenide (GaAs) nanocylinders.



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Large Laser Crystal Could Serve as Active Medium for Lidar

A colquirite crystal grown over a three-year period by a team of Kazan University physicists could be used with lidar to detect polluting compounds in the Siberian atmosphere and measure their concentration more precisely.



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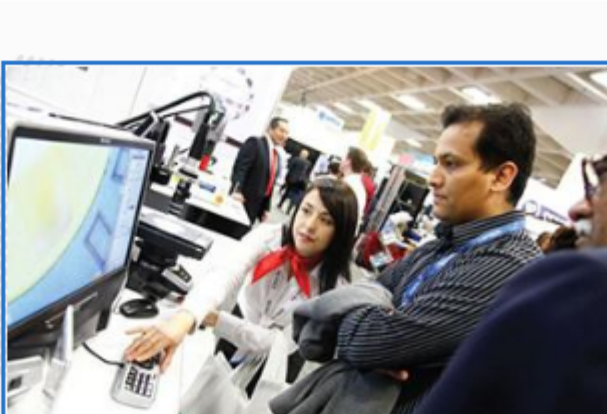
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Industry Events

SEMICON West 2018

July 10-12, 2018 - Moscone Center - San Francisco US
SEMICON West 2018 will feature three days of presentations with more than 80 hours of technical and business programming, plus hundreds of exhibitors who can provide the insights, innovations, and intelligence you need to get ahead and embrace today's disruptive landscape. From materials, equipment, design, manufacturing, system integration, and demand channels to new verticals and adjacencies such as flexible hybrid electronics, MEMS and sensors, you'll gain access to the best in the business and get a glimpse at the next.



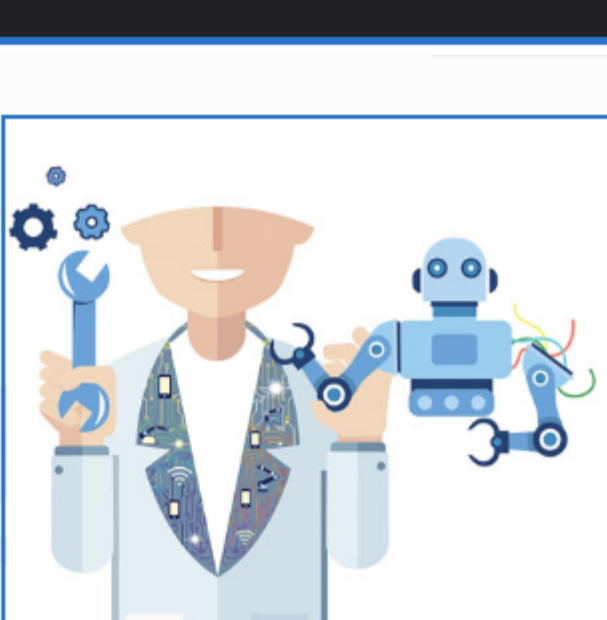
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Webinars

Training the New Collar Workforce

Tue, Jul 17, 2018 1:00 PM - 2:00 PM EDT

In this webinar, you will hear the results of interviews with 200 manufacturers on digital fabrication job skills needed in manufacturing today. The presenter's findings lead directly back to innovative training programs that include digital badges to demonstrate hands-on experience with tools like 3D printers, CAD software, and laser machine tools. This one-hour webinar is essential for all manufacturing plant managers, production managers, HR department staff, as well as training specialists, economic development directors, and students.



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