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spectra Monthly newsletter from the editors of Photonics Spectra, with features, popular topics, new products, and what's coming in the next issue.

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Quantum Dots: Taking the Display World by Storm The presence of quantum dots (QDs) in consumer displays has been on the rise since Sony introduced QD Vision's edge optic in its 2013

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Lasers in Industry

A resource on materials processing, micromachining and more.

Triluminos TV series. Samsung introduced its super ultrahighdefinition QLED TV two years later, accompanied by a strong

marketing campaign for QLED, which has since driven interest from consumers and display makers alike. With improved color and energy efficiency, nearly every major display manufacturer is now incorporating QDs into their high-end displays. Read Article

been directed at developing compact sources of ultrashort-wavelength

commercial availability of several types of EUV light sources. These

UV radiation in recent years. That work has paid off with the

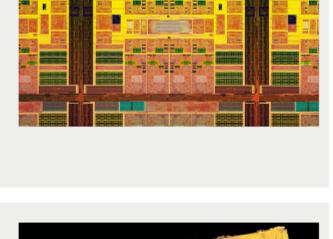






include the laser-produced plasma (LPP) sources — suitable for semiconductor lithography — and discharge-produced plasma (DPP)

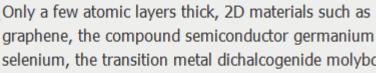
sources that can be used for less demanding applications in mask inspection and materials analysis. Read Article Thinnest of Materials Loom Large Only a few atomic layers thick, 2D materials such as



ditelluride, and others could provide new photonic capabilities — better

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3 A B D

multispectral imaging and single-photon sources, for example. As a result, areas ranging from imaging to quantum information processing could benefit.

Featured Products Turn-key Fiber-coupled Diode Laser System PhotonTec Berlin GmbH PhotonTec Berlin extends its diode laser portfolio with a

new turn-key system. It integrates fiber-coupled diode

enabling both local and remote control of the power,

laser module, power supply and cooling in one 19" rack,

Avantes BV

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uncooled spectrometer

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Launched

at the Institute of Quantum Optics at Leibniz Universität

configurations. The AvaSpec-

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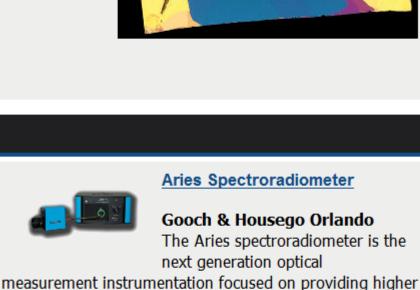
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Advances in silicon photonics and micro-optic technologies are driving automated alignment tolerances down to nanometer

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the industry standard OL 770 optical core, the Aries

new powerful software suite...

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operating mode and pulse parameters.

been set up ...

NIR512-1.7-EVO offer the same high sensitivity optical bench with the next generation of electronics.

NIR256-1.7-EVO and the AvaSpec-

New AvaSpec-NIR in EVO Series

Laser Quantum Ltd. Laser Quantum has recently launched a free online version of vChirp, a software developed in coordination with Prof. Uwe Morgner's group

Online Web Optics Software

Hannover. This user-friendly software, designed with an easy drag and drop handling of desired components, has

Photonics Media U.S. manufacturing companies are The expected to face a shortage of two New million skilled workers by the year Collar 2020, according to reports. As a Workforce result, manufacturers and educators are looking for real, actionable

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The New Collar Workforce

- 7 June 2018

In Case You Missed It

Messe Stuttgart (Germany)

Enable Widely Tunable Quantum Systems

Combining Two Ultrathin Materials in a New QD Could

more accurate and more widely tunable energy levels of confined electrons. The advance in QD technology combines graphene (a

A new type of quantum dot (QD) has been developed that allows for

conductive single atomic layer of carbon atoms) and hexagonal boron nitride (h-BN), a single layer of material similar to graphene except that

ideas to train workers, reduce the shortfall and realize the potential of

Fair for Laser Material

Kentek Corporation Kentek's laser AREA WARNING DEVICE is a low-cost option for automatically controlling signage to



Optics

sources and when integrated with FISBA's optical

components, high quality laser beam output can be

FISBA AG

aachieved. FACs collimate output beams in the fast axis,

Diode lasers are robust laser

but should be combined with other micro optical components for optimum performance. Visit Website Request Info Next Generation of Trilinear

cameras are ideal for industrial applications that require

high color resolution and image sharpness such as print,

label, textile, electronic and PCB inspection.

Line-Scan Cameras

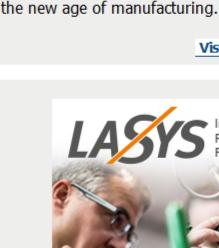
Teledyne e2v (UK) Ltd.

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Teledyne e2v announces its next

generation of line-scan cameras the high-resolution ELiiXA+ trilinear color range. These new 8k pixel

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it is insulating.

levels. Read Article (4) (1) (1)

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Holograms can also be used for integral imaging-based 3D display,

Alexandre Blanche from the University of Arizona will discuss the application of holography in all of these areas and the technological

lensless projection, and lidar beam steering. Professor Pierre-

advantages of holography over other techniques.

Holography for Display: From AR to HUD to 3D

Tue, Jun 12, 2018 1:00 PM - 2:00 PM EDT Because holograms have the advantage of being thin and light, they are finding application in the fields of augmented reality and head-up display, where constraints on the size and weight of the optics exist.

nonrenewable energy sources.

Ultrashort Laser Pulses Make Greenhouse Gas Reactive A highly reactive form of carbon dioxide (CO2), created using ultrashort laser pulses, could help reduce dependence on

Coming in June...

Ouantum Dots

Features

Photonics Media is currently seeking technical feature articles on a variety of topics for publication in our magazine Photonics Spectra. Please submit an informal 100-word abstract to Managing Editor Mike Wheeler at

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