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EuroPhotonics Digital Edition - Summer 2014



For 17 years *EuroPhotonics* has reported on key enabling photonic technologies coming out of the vibrant European Industry.

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The **Summer 2014 issue** of *EuroPhotonics* includes feature articles about producing LED lamps that are more attractive to consumers; speeding up industrial quality control; and taking Raman spectroscopy out of the lab and into the clinic.

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Next-Gen LED Lamps Bring Costs Down



LEDs top almost every other illuminant in lifetime and performance, but also in production costs. This is where molded interconnect devices come in, offering considerable freedom for the arrangement of LEDs and more efficient production with cost-saving potential. LEDs provide the backlighting for LCDs, give cars their brand-specific lighting design, and illuminate, e.g., an outfield, without significant light pollution. What counts is long-term stability, low power requirements, low construction depth and a possible lifetime of some 10,000 hours.

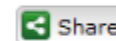
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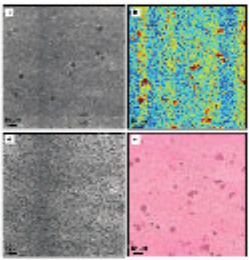
Optodigital Microscopy Enhances Efficiency of Material Testing

Automated microscopes can help speed up the industrial quality-control process, saving time and money.

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Moving Raman Spectroscopy into the Clinic

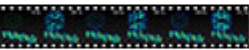


Raman spectroscopy's molecular sensitivity makes it promising for clinical applications: It can identify pathogens much faster than current methods, investigate circulating tumor cells, help surgeons distinguish tumors from healthy tissue and identify the chemical nature of cardiovascular plaques and evaluate their severity.

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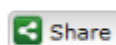


Spectroscopy Helps Capture Charge Transfer in Solar Cells



Ultrafast spectroscopy has allowed physicists, for the first time, to observe and capture the light-to-current conversion process in an organic solar cell as it happens.

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Crystals Set in Motion by UV Light

Tiny crystals of a cobalt coordination compound leap, twirl and burst apart like popcorn when exposed to UV light. A team led by researchers at the National University of Singapore suggests the microscopic phenomenon could find macroscopic applications turning sunlight into mechanical energy.

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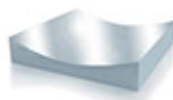
Featured Products



LAOS Sapphire

GT Advanced Technologies Low-Absorption Optical Sapphire (LAOS) begins with ultrahigh-purity starting material and is grown in a special process in order to reduce optical absorption seen in standard sapphire materials.

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Metallic-Coated Mirrors

Altechna, UAB Cylindrical concave metallic-coated mirrors by Altechna serve as reflectors in the broadband spectral range, focusing light to a thin line without chromatic aberration for applications such as beam expansion or line generation.

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WHITE PAPER



Thermal Imaging Detects Failures in Electronic Equipment at an Early Stage

FLIR Systems, Inc., Advanced Thermal Solutions Div.

Thermal imaging cameras are being increasingly used in electronic labs. Italian company TEST uses FLIR Thermal Imaging Cameras to detect failures in PCB boards at an early stage.

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