Tuesday, February 27, 2018

INDUSTRIAL PHOTONICS LASERS

A quarterly newsletter focused on the latest advancements in and applications for industrial lasers - from materials processing to metrology. Manage your Photonics Media membership at Photonics.com/subscribe.

Industrial Laser News

Additive Manufacturing Ups Its Game

Additive manufacturing, aka 3D printing, makes parts one at a time and eliminates the need for retooling when a design is changed. For now, high-volume additive manufacturing remains more expensive than traditional production, but the goal is to make it part of the standard manufacturing tool kit.

Read Article

Hybrid Perovskite Material Could Be Key to Making Organic Diode Lasers

Researchers are closer to creating a tunable semiconductor diode laser from hybrid organic-inorganic perovskites. Using a material composed of an inorganic perovskite sublattice with relatively big organic molecules confined in the middle, a Penn State research team demonstrated that optically pumped continuous-wave lasing could be sustained for over an hour.

Read Article

Featured Products

High-Power Industrial Fiber Lasers

Coherent Inc.

Coherent-ROFIN HighLight FL series high brightness, high-power fiber lasers offer output powers from 500 W to 10,000 W. With their modular and robust design, these lasers deliver optimum efficiency, enabling low-cost, temperature-sensitive plastic substrates to be used in the manufacture of flexible thin-film devices such as touch screens and window coatings.

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Lasers in Industry

Photonics Media

Photonics Media has gathered articles and other valuable resources into a guide to the current use of lasers in industry, a reference tool and a resource for learning. This book is for anyone working on, implementing or considering the application of lasers for and in industrial settings for materials processing, quality control and production. It will also serve as an introduction to industrial lasers for those completely new to the subject. Visit the Photonics Media Bookstore to order your copy!

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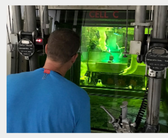
More News

Welding System Could Help Extend Lives of Nuclear Power Plants

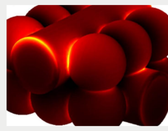
A system for welding highly irradiated metal alloys has been developed by researchers at Oak Ridge National Laboratory (ORNL) in partnership with the Electric Power Research Institute (EPRI). The ORNL/EPRI system uses advanced techniques that introduce less stress than conventional welding, thereby reducing cracking.



Read Article

Way to Lower Fusion Temperatures Could Lower Manufacturing Costs

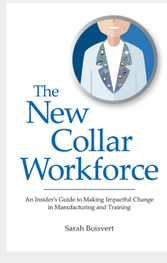
A new method of processing materials for nano-based manufacturing allows intense pulsed light sintering (IPL) to be used at a lower temperature, enabling low-cost, temperature-sensitive plastic substrates to be used in the manufacture of flexible thin-film devices such as touch screens and window coatings.



Read Article

Manufacturing Is Changing Dramatically. Who's Ready to Work?

In a new book — The New Collar Workforce — an innovative leader prepares manufacturing managers, educators, students and career changers for transformations in the factory.



Read Article

Laser Welding Technique Expands Industrial Use of AHS Grade Steel Alloys

A technique for high-temperature laser welding has been developed for use with advanced high-strength (AHS) steel alloys. The technique, developed by researchers at the Brazilian Air Force Command's Institute for Advanced Studies (IEAv), combines laser welding and induction heating to produce 22MnB5 steel welds in the bainitic range.

Read Article

Webinars

Fused Silica Selection: Solutions for Price vs. Performance

Wed, Apr 4, 2018 1:00 PM - 2:00 PM EDT

Fused silica is a key material in a multitude of optical applications, from high-power laser systems to telecommunications. In this webinar you will learn how to choose which type of fused silica will best match the price and performance points of your application. The presenter will include application-specific examples across the spectrum that demonstrate successful fused silica selection. This webinar is presented by Heraeus.

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Photonics Media is currently seeking technical feature articles on a variety of topics for publication in *Industrial Photonics*. Please submit an informal 100-word abstract to our online submission form www.photonics.com/submitfeature.aspx.