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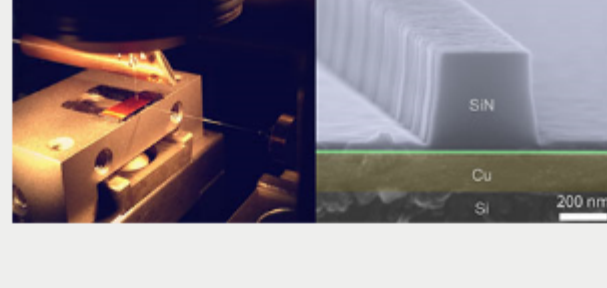
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Top Stories

Copper Plasmonics Explored for Nanophotonics Applications

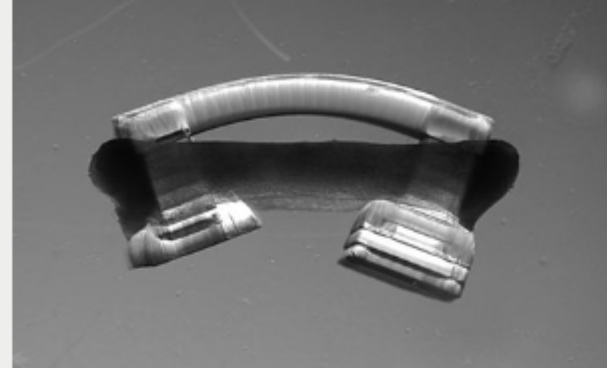
Experimental demonstration of copper components has expanded the list of potential materials suited to nanophotonic devices beyond gold and silver. According to researchers from the Moscow Institute of Physics and Technology (MIPT), copper components are not only just as good as components based on noble metals, such as gold and silver, they can be easily implemented in integrated circuits using industry-standard fabrication processes. Gold and silver, as noble metals, may not enter into the requisite chemical reactions to create nanostructures readily and require expensive, difficult processing steps.



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Optogenetic Biobots Are Powered by Skeletal Muscles

Optogenetic techniques have enabled noninvasive control of miniature biological robots, or biobots, powered by muscle cells, bringing such bots one step closer to application in health, sensing and the environment. A research team from the University of Illinois had previously demonstrated biobots that were activated with an electrical field. But electricity can cause adverse side effects to a biological environment and does not allow for selective stimulation of distinct regions of muscle to steer the biobot, said research professor Rashid Bashir.



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Jenoptik Group Revenue up 13% in 2015

Jenoptik AG has reported 2015 group revenue of €668.6 million (about \$750.5 million), up 13.3 percent from 2014. Group earnings before interest, taxes, depreciation and amortization (EBITDA) increased at a faster rate than revenue, by 16.7 percent to €88.8 million, compared with 2014 EBITDA of €76.1 million.



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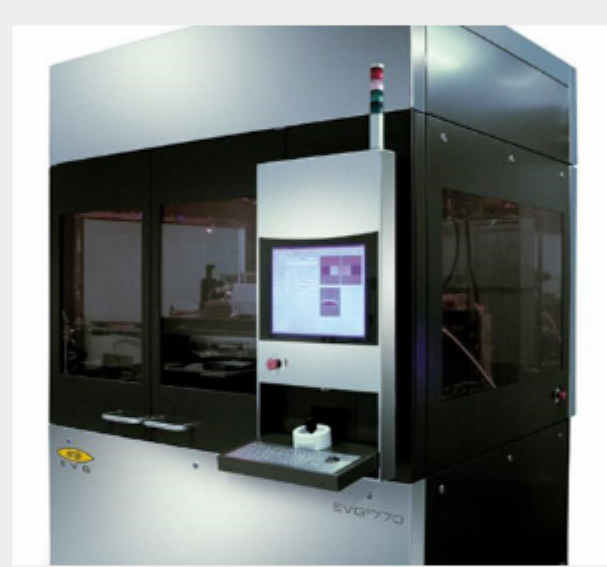
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EV Group, Joanneum Collaborate on UV-NIL System

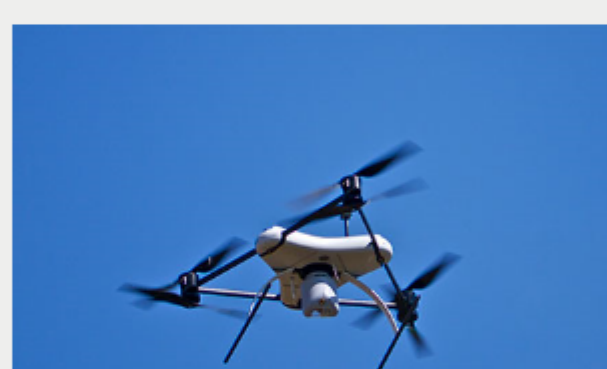
Wafer bonding and lithography supplier EV Group has announced collaboration with international research organization Joanneum Research Materials for the EVG770 automated UV-nanoimprint lithography (NIL) step-and-repeat system. The two organizations have adapted the EVG770 with new capabilities to accommodate foil substrates that will enable the system to be used at Joanneum to manufacture flexible master templates applied in roll-to-roll NIL processing for photonics, functional surfaces and microfluidic device production.



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Defsys to Manufacture Controp Products in India

Electro-optical technology developer Controp Precision Technologies Ltd. has signed a cooperation agreement with system integration company Defsys Solutions Pvt. Ltd. of New Delhi, India, for the production and marketing of Controp's devices in India. Launched by Prime Minister Narendra Modi in September 2014, "Make in India" is an initiative to encourage multinational and national companies to manufacture products in the country.



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OSA Centennial - Anthony Johnson – University of Maryland

The Optical Society members share their reflections on 100 years of optics innovation, what inspired their interest in the field and how OSA has impacted their career.

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PhotonTec Berlin GmbH
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Thin-Film Coatings

OptoSigma Corp.
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High-Voltage Laser Diode Controller

Necsel
Necsel High Voltage Controller is a compact laser diode controller and is the easiest way to start using Necsel lasers.

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Slim Line XYZ Nanopositioner

Mad City Labs
The Nano-LPS series of XYZ closed loop nanopositioners is ideal for applications where high stability and sub-nanometer precision in motion is required.

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