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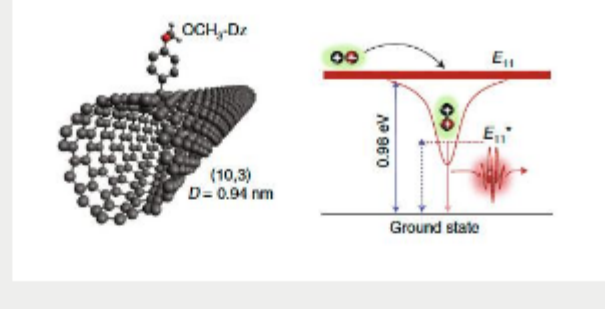
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Top Stories

Carbon Nanotubes Emerge as Potential Quantum Light Sources

Researchers report on the potential of carbon nanotubes as single-photon emitters for quantum information processing. Scientists in the U.S. and Europe are investigating the single-photon purity, generation efficiency, and indistinguishability of single-wall carbon nanotubes (SWCNTs).

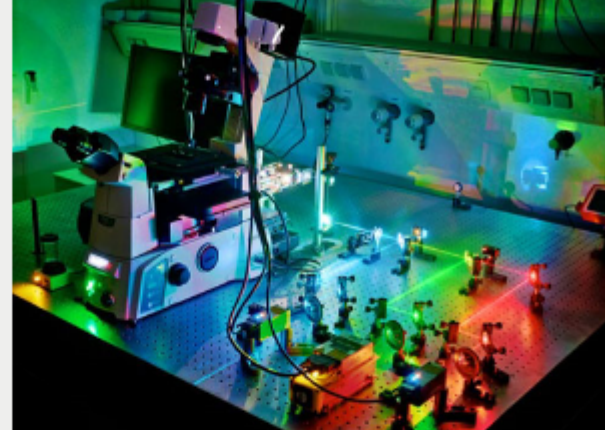


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Superresolution Microscopy Method Could Enhance DNA Nanostructure Design

A method of superresolution microscopy, called DNA-PAINT, allows all of the strands within DNA-based nanostructures to be visualized individually, with a high degree of spatial resolution. Using DNA-PAINT, researchers can directly visualize all components of the DNA origami structure and determine how well the DNA strands have self-assembled.

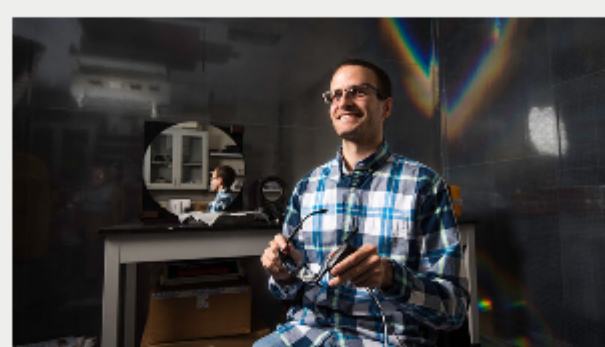


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Freeform Optics Design Approach Uses Starting-Point Geometries

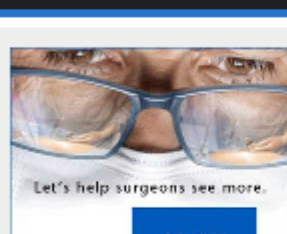
Researchers have developed a step-by-step design method for determining which freeform surfaces will work best in a given configuration. The new method, which combines theory and practice, could eliminate the time-consuming, expensive process of using trial-and-error to determine which freeform surfaces will best achieve the desired result.



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New Vision App-based IDS NXT Vegas Model

IDS Imaging Development Systems GmbH

IDS has expanded its product range of vision app-based industrial cameras. A color sensor model of IDS NXT vegas has joined the product family. German camera manufacturer IDS has also introduced a new firmware and a new cockpit to the market, which offer additional features and simplify the handling even further.

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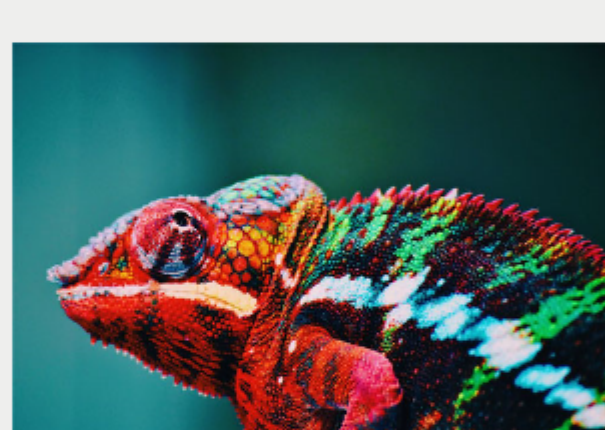
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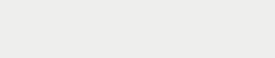
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Nanolaser Changes Colors Like a Chameleon

A new nanolaser, with a design inspired by nature, can change color using the same nanomechanics that a chameleon uses. A chameleon changes color by controlling the spacing of nanocrystals on its skin. The nanolaser exploits periodic arrays of metal nanoparticles on a stretchable, polymer matrix in a similar way.

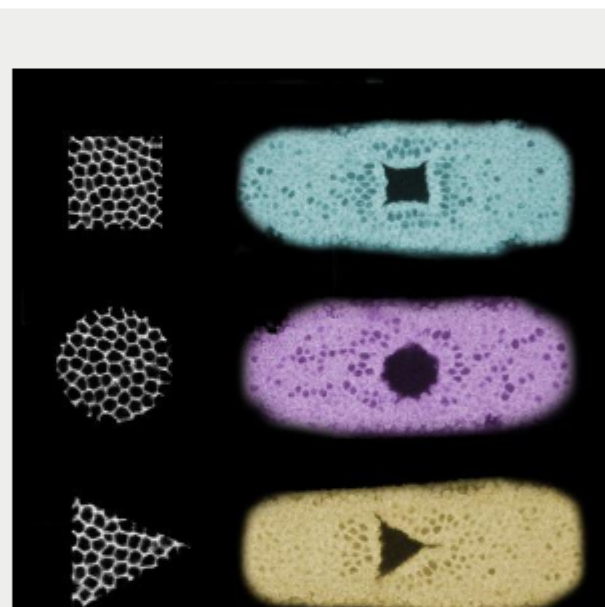


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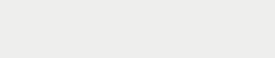


Optogenetics Shapes Tissue to Reconstruct Epithelial Folding

Using optogenetics, researchers have guided the folding and shaping (morphogenesis) of tissues and cells that otherwise would not undergo this process. Researchers used precise light-mediated control of protein activity in biological tissues to reconstruct epithelial folding in embryonic *Drosophila* tissues.



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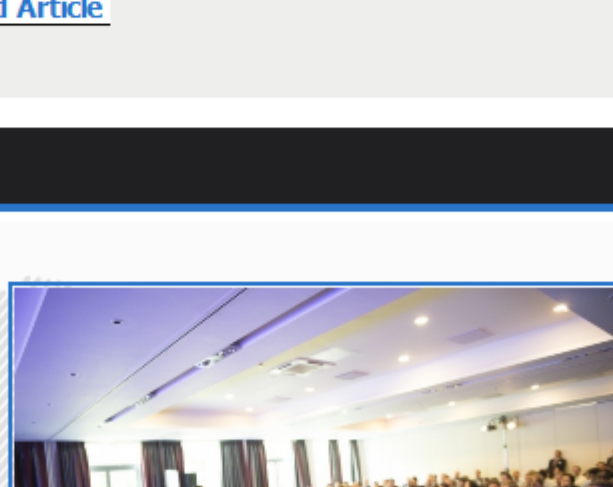
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Industry Events

Additive International 2018

July 10-12, 2018 - Nottingham Belfry Hotel - Nottingham England
The Additive International summit, formerly known as the International Conference on Additive Manufacturing & 3D Printing, brings together academic and industry experts to share their knowledge and ideas. In addition to Additive International, there is a pre-summit event, Business Innovation in AM. This day provides an ideal opportunity to meet the key people involved in additive manufacturing business innovation and understand their objectives and the work they are undertaking.



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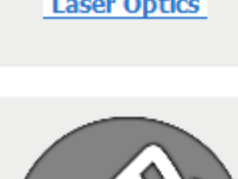
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