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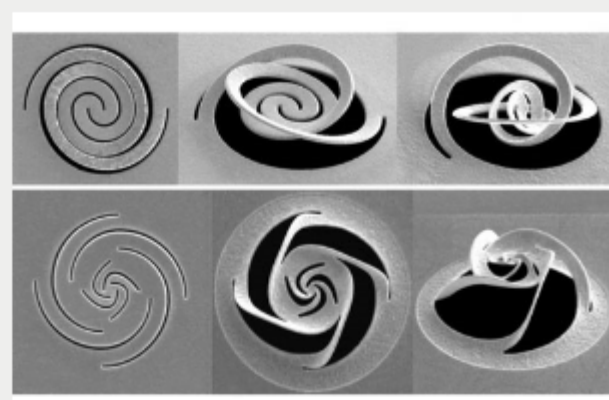


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Top Stories

Kirigami-Inspired Technique Manipulates Light at Nanoscale

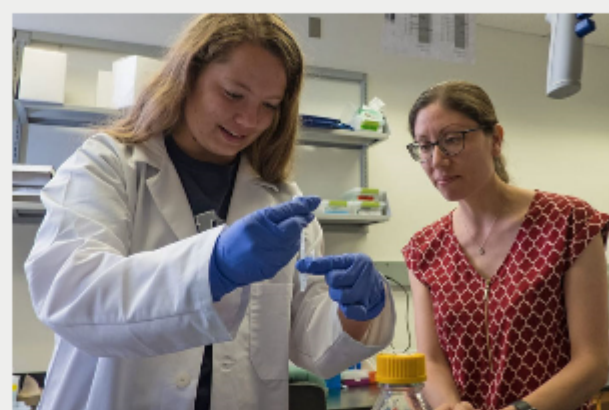
Researchers have applied the principles of kirigami — the traditional art of paper folding and cutting — to the fabrication of advanced 3D nanodevices for manipulating light. The team believes that “nanokirigami” could offer an intelligent 3D nanofabrication method beyond traditional bottom-up, top-down, and self-assembly nanofabrication techniques.



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Fluorescent Fish Genes Could Help Uncover Source of a Pediatric Cancer

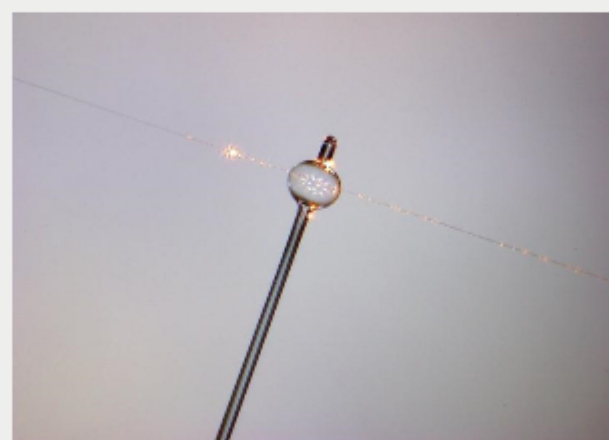
A transgenic zebrafish that produces fluorescent tags in migratory embryonic nerve precursor cells could help lead researchers to the origins of neuroblastoma, a pediatric cancer in which malignant cells form in immature nerve tissue.



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Hollow Glass WGR Improves Nanoparticle Detection

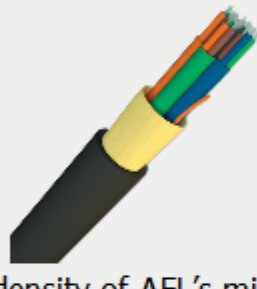
A newly fabricated whispering gallery resonator (WGR), in the form of a tiny glass bubble just a hair's breadth wide, has demonstrated the ability to detect the presence of minute particles more effectively than existing WGRs. The hollow glass microbubbles used for the new sensing regime allow it to move beyond limitations of the evanescent field.



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Micro-Tactical Cable



AFL

AFL's new Micro-Tactical Fiber Optic Cable combines the ruggedness of military tactical cable designs with the ultra-high fiber density of AFL's micro-cable technology. Designed for rapid deployment in optical networks requiring high mechanical performance specifications, extreme environmental exposure, and highly dynamic operating conditions..

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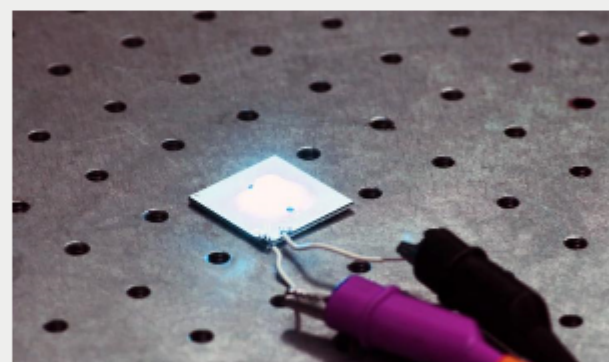
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More News

Liquid-Based White LEDs Achieve High Luminous Efficiency

Quantum dot (QD) white LEDs that show a luminous efficiency of 105 lm/W have been developed. The QDs are liquid-based and, according to researchers, could help the LEDs achieve an efficiency double that of LEDs that incorporate quantum dots in solid films. With further development, researchers say the new LEDs could reach efficiencies over 200 lm/W.



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Luminescent Lighting Supports Arctic Greenhouse

In an autonomous greenhouse being piloted for Arctic conditions, scientists are testing the use of polycrystalline luminescent materials for lighting. Since these materials efficiently convert UV radiation into visible, high-thermal characteristics, the team believes the materials will help ensure a long service life for the solid-state light sources that will be used in the greenhouse.



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Industry Events

International Conference on Laser, Optics and Photonics

August 23-25, 2018 - Holiday Inn Paris - Paris France
The International Conference on Laser, Optics and Photonics (Laser Tech 2018) will offer presentations from leading scientists, informal exchanges among conference attendees, workshops and symposia, as well as an opportunity for companies to exhibit their products. Conference topics will include fiber laser technology, surface enhanced spectroscopy, optoelectronics, optics in astronomy and astrophysics, nanophotonics, biophotonics, industrial applications for lasers, and more.



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