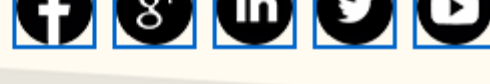


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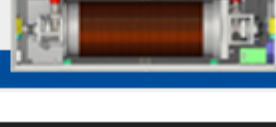


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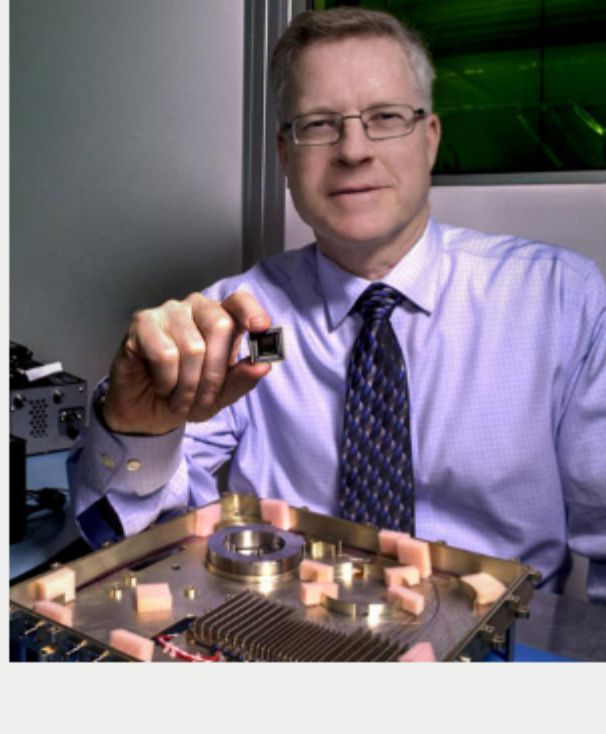
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NASA to Build Integrated Photonics Modem for Laser Communications

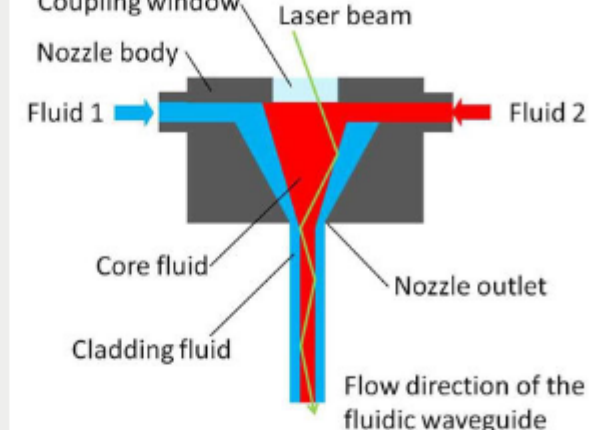
An integrated photonics modem will be tested aboard the International Space Station beginning in 2020 as part of NASA's multiyear Laser Communications Relay Demonstration (LCRD). The cell phone-sized device incorporates optics-based functions, such as lasers, switches and wires, onto a microchip.



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LZH Launches 3 Hybrid Numerical Optics Research Projects

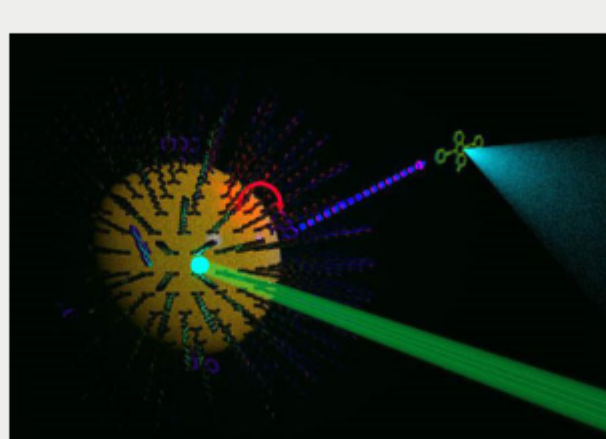
Nonprofit research institute Laser Zentrum Hannover e.V. (LZH) is working on three subprojects in the new research priority, Hybrid Numerical Optics, of the Hannover Centre for Optical Technologies (HOT) at Gottfried Wilhelm Leibniz University Hannover. Working in a new competence center for optical simulation, LZH will address three subprojects in the areas of high-power glass fiber amplifiers, dielectric coatings and light propagation in fluid columns.



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Triplet Exciton Energy Transfer Extends Lifetime

Transferring triplet exciton energy from semiconductor nanocrystals to surface-bound molecular acceptors has extended the lifetime of the originally prepared excited state by six orders of magnitude. The finding has implications for fields ranging from solar energy conversion to photochemical synthesis to optoelectronics to light therapy for cancer treatment.



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Seth Coe-Sullivan Appointed Luminit VP of Technology

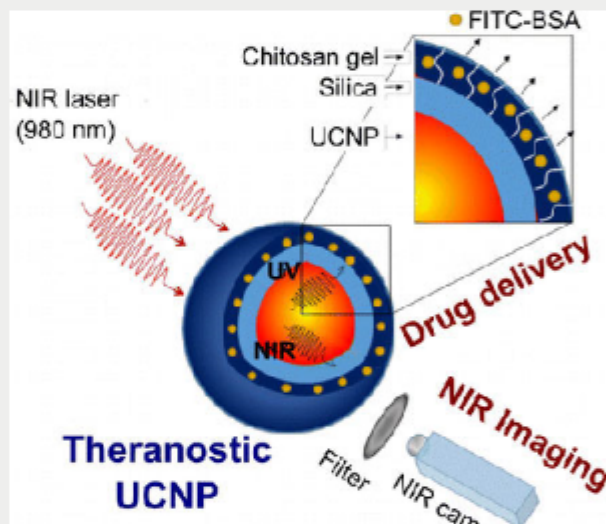
Light technology developer Luminit LLC has appointed Seth Coe-Sullivan as its vice president of technology. Coe-Sullivan will be in charge of transitioning Luminit's existing holographic technologies into commercial products and developing new technologies for commercial and government applications.



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UV, NIR Light Enable Targeted Drug Delivery

A nanotherapy that converts near-infrared light to UV light may mitigate side effects caused by drug regimens that can damage healthy cells. Canadian researchers demonstrated the technique using nanoparticles that converted near-infrared (NIR) light into UV light, coating the particles in a UV-sensitive hydrogel shell infused with a fluorescent protein as a stand-in for drug molecules.



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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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