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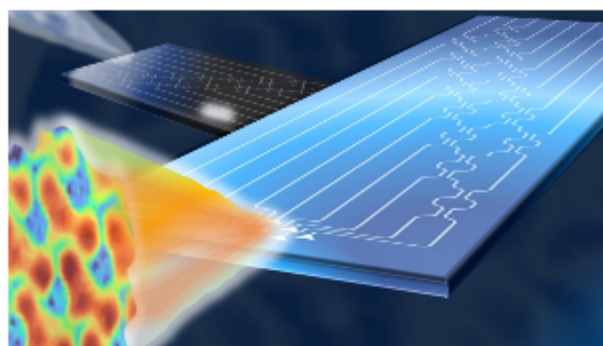


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Barrier to Optical Wireless Broken with Photonic Chip

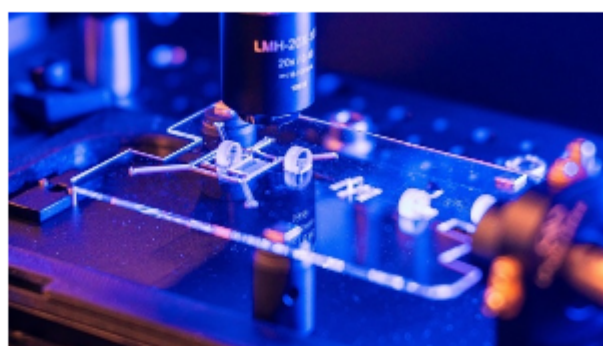
Researchers from Politecnico di Milano, Scuola Superiore Sant'Anna, the University of Glasgow, and Stanford University have created photonic chips that mathematically calculate the optimal shape of light to best pass through any environment, even one that is unknown or changing over time.



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Femtosecond Laser Integrates Optics in Single Glass Substrate for Easy Manufacture

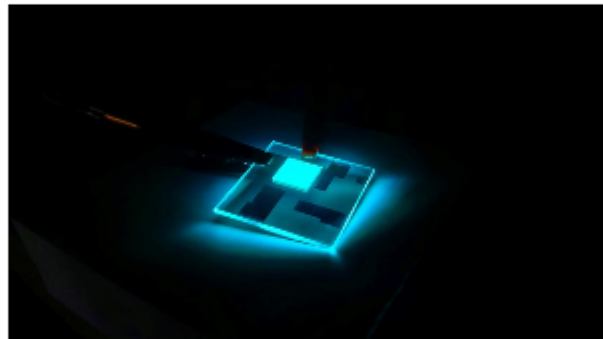
The short, regular pulses of femtosecond lasers are put to effective use in numerous applications, including laser surgery, micromachining, microscopy, and spectroscopy. Free-space optics offers substantial freedom in femtosecond laser design — but this comes at the cost of limited miniaturization and manufacturability. A new approach, developed at École Polytechnique Fédérale de Lausanne (EPFL), makes the free-space optical components of a femtosecond laser easier to align, thus making the laser easier to manufacture.



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Single-Layer OLED Design Offers Efficiency Without Complexity

With the development of a single-layer, blue-emitting OLED, researchers at the Max Planck Institute (MPI) for Polymer Research demonstrated that one-layer OLEDs can achieve a performance level comparable to commercial OLEDs with multiple layers, while simplifying OLED design, fabrication, and analysis.



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OLED Pumping Enables Electrically Driven Semiconductor Lasing

Researchers at the University of St. Andrews demonstrated an electrically driven, organic semiconductor laser using a new approach that could improve the performance of this class of laser and further the development of ultrafast, organic optoelectronics applications. The researchers used indirect OLED pumping to power the laser. They built an integrated device structure that efficiently coupled an OLED that had very high light output with a polymer-based, distributed feedback laser.

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Imaging Algorithm Delivers Superresolution and Fidelity in 3D

A new implementation of superresolution radial fluctuations (SRRF), called enhanced superresolution radial fluctuations (eSRRF), was introduced by a team at the Gulbenkian Science Institute. According to the research team, eSRRF provides substantial improvements to image fidelity, resolution, and user-friendliness, compared to the original SRRF.

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Self-Assembled Resonator for Optical Chips Confines Light at Atomic Scale

Optical resonators increase the strength of light-matter interaction by storing light over a long period of time. The smaller the resonator, the tighter the confinement of light will be, resulting in an even stronger interaction. To create a resonator that provides strong light-matter interaction at a very small scale, researchers at the Technical University of Denmark (DTU Electro) built self-assembled, bowtie optical resonators at the atomic scale and embedded the self-assembled cavities in a larger architecture consisting of self-assembled waveguides, springs, and photonic couplers.

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