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Hyperfluorescent Blue OLED Points Way to Pure and Efficient Blues

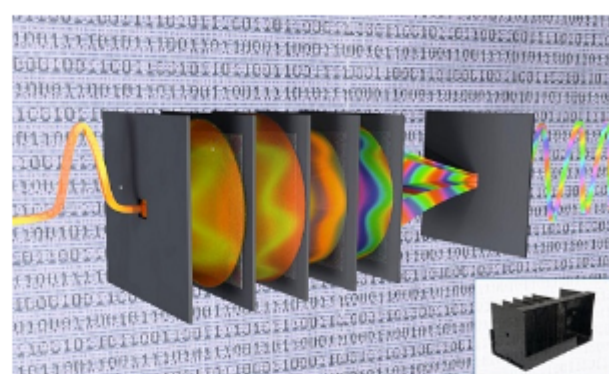
Researchers at Kyushu University have introduced a blue light source that could lead to more efficient OLED displays, while, at the same time, emitting blue light without compromise to the quality or purity of the light. The light source is based on a combination of emitter molecules that split energy conversion and emission processes.



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Deep Learning-Designed Network Shapes Light Pulse

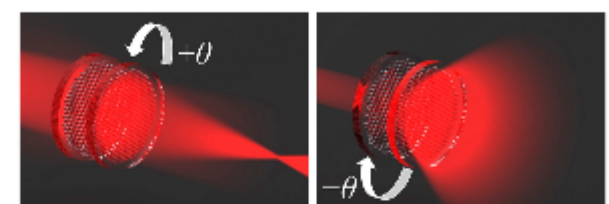
UCLA researchers developed a method to shape light pulses by creating physical networks composed of specially engineered photonic layers. Networks built on similar concepts, already capable of all-optical classification and image recognition, suggest that applications for the new technology span computing and AI.



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Moiré Metasurfaces Create Wide-Range Lens

Researchers from Tokyo University of Agriculture and Technology (TUAT) have demonstrated that moiré metalenses can tune focal length along a wider range than previously seen. Moiré metalenses are tiny patterned lenses composed of artificial meta-atoms.



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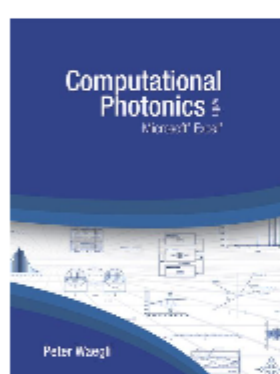
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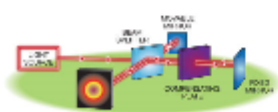
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.: Upcoming Webinars

Fourier Transform Infrared Spectrometer (FTIR): Theory, Practice, and Applications

Wed, Feb 10, 2021 1:00 PM - 2:00 PM EST

This webinar with John D. Gilmore and Slawomir Piatek, Ph.D., of Hamamatsu will review the basic theory behind a Michelson-Morley interferometer, and will apply it directly to today's modern MEMS-based FTIR engines. The presenters will compare traditional grating-based spectrometers with FTIR, and the associated technological limitations, such spectral coverage, signal to noise ratio and noise induced by mechanical vibration. Participants will witness a live MEMS FTIR product demonstration and will learn about FTIR applications and some market challenges and solutions. Presented by Hamamatsu Corporation.



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