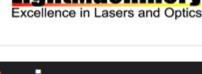
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So-called "topological materials" produce electron states that can be useful, but it is difficult to identify these materials and their associated electronic states. To identify these "topological materials," scientists

from TU Wien and the University of Science and Technology of China created a "crystal" made of light waves.



Materials

photocurrent was created.

Using Light to Stop Itch Could Provide Relief From Skin **Diseases** Scientists used NIR light to activate a phototoxic agent that selectively targets itch-sensing cells, which are located in the upper surface of the skin. When the agent is injected into a mouse's affected skin area and





WEBINAR | Spectroscopic

Reference Data for Hot Gases

experimental absorption spectra for

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PHOTOMICS application. This engaging overview is a resource for designers, engineers, researchers, marketers and students looking for a broad survey of advancements in systems, components and processes.

Systems is a compact camera/lens system capable of capturing the full angular distribution of a NIR-emitting solutions for light source characterization, the NIR

Intensity Lens captures complete...

light source in a single image. Compared to goniometric

Near-Infrared Intensity Lens

Measurement

Radiant Vision Systems, Test &

The Near-Infrared (NIR) Intensity

Lens solution from Radiant Vision

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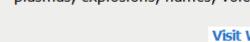
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characteristics can be combined together to form a new metamaterial that exhibits state-of-the-art nonlinear properties. The enhancement comes from the way the metamaterial reshapes the flow of photons.

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Tunable, Nonlinear Metamaterials Could Facilitate Optical

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SMART TECHNOLOGIES

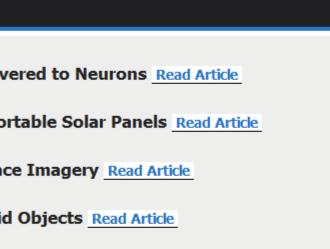
Industry Events

Photonics West 2019

States SPIE Photonics West is the world's largest photonics technologies event, consisting of three conferences - BIOS, LASE, and OPTO - and exhibitions. Photonics West 2019 will give you access to cutting-edge research through its 5,000-plus presentations and courses, its two

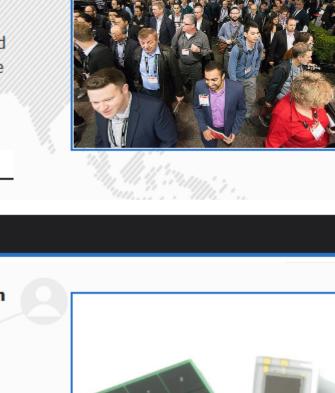
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CUTTING EDGE RESEARCH

photodetection. Compared to photomultiplier tubes (PMTs), SiPMs and SPADs are smaller, more durable, and more energy efficient. They also offer better immunity to magnetic fields and ambient light

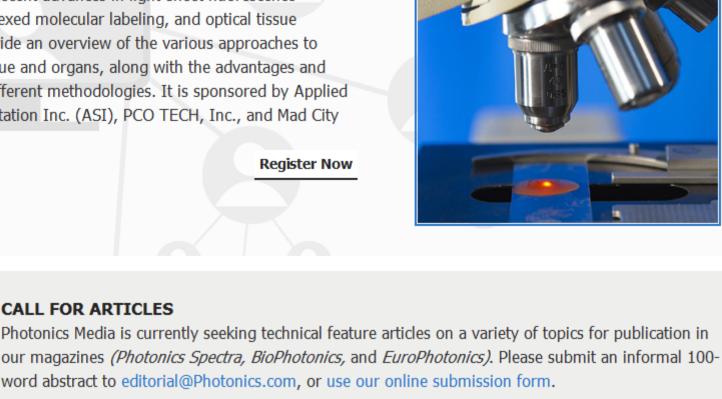
understanding of SiPM and SPAD technology, so you can determine whether it is the right choice for you.

than PMTs. By attending this webinar, you will gain a better

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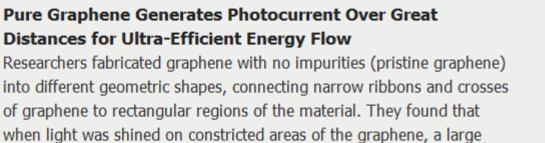




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the area is illuminated with the NIR light, the itch-sensing cells withdraw from the skin.

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states are present in a wide range of natural and manmade environments, such as cool stars, exoplanets, plasmas, explosions, flames, volcanoes, forest...

gaseous molecules at high temperatures and high

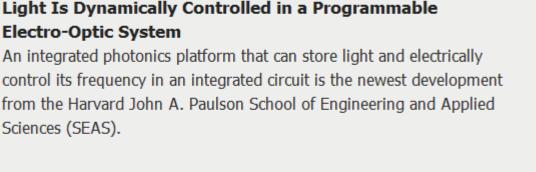
pressures. Gases in these high-enthalpy thermodynamic

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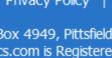
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