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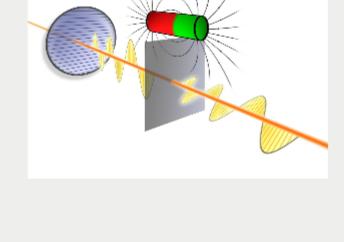
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Quantum Effect Changes Direction of Light Waves

insulators" (TI) demonstrated the ability to switch the direction of a light wave in

clearly defined quantum leaps rather than continually. This "quantized magnetoelectric effect" could open up new and highly accurate methods of measurement. The extent of these quantum steps was found to depend solely on fundamental physical parameters.

In a variation of the magneto-optical effect, special materials called "topological



Irregular Shapes



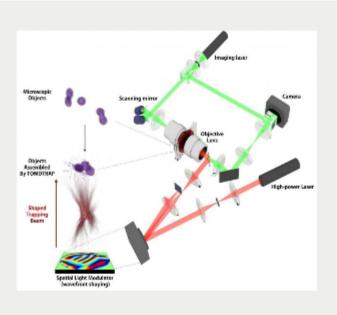




An optical manipulation technique that can securely control the position,

could have direct applications in biophotonics and soft matter physics.

orientation and shape of non-spherical microscopic samples, such as living cells,

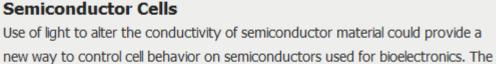


some materials to become much more conductive when light is shined on them. When conductivity in these materials is elevated, the charge at the surface of the









material increases. sponsors

approach draws on persistent photoconductivity, a phenomenon that causes











Light Exposure in the Evening Improves Sports

consumption and emissions stressing the climate by more than 33 percent.

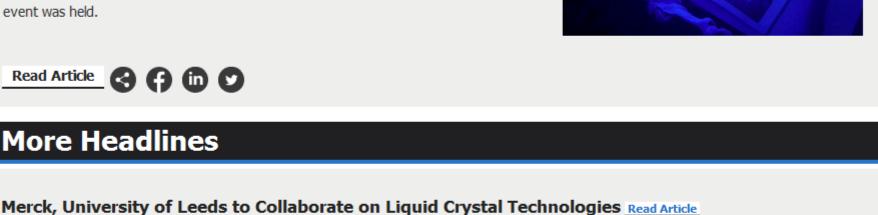
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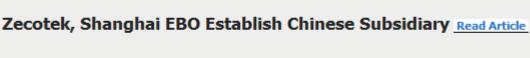
can significantly improve their end performance. Researchers at the University of

Basel's Department of Sport, Exercise and Health investigated whether light









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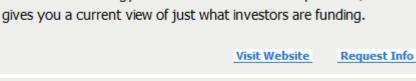
through Entrepreneurship – CITE – demonstrates how to move advanced technology into successful commercial products, and

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less expensive option for measuring NIR spectra than a multichannel

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that scans through a range of NIR wavelengths from 1550 nm to

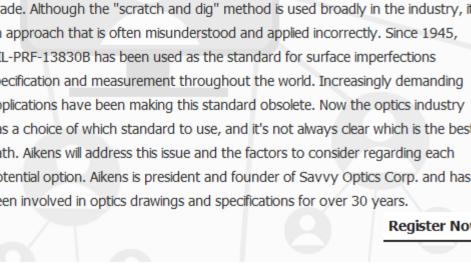
1850 nm. The FPI is fabricated using MEMS (micro-electro-

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