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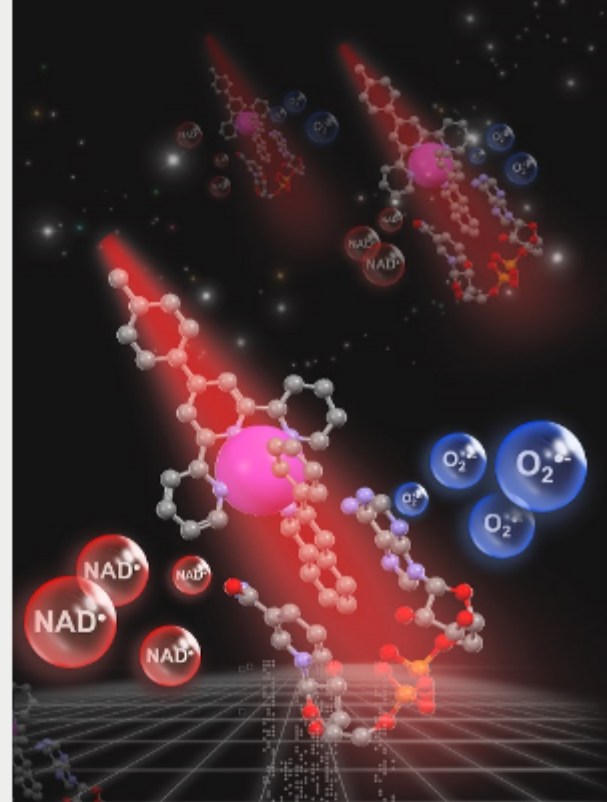
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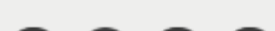
Top Stories

New Light-Activated Metal Compound Kills Cancer Energy Source

A team led by University of Warwick researchers is using light to activate a cancer-killing compound that attacks a vital energy source in cancer cells. This technique could be used not only to treat cancer, but also to help reduce side effects of treatment and potentially immunize against developing the disease in the future.

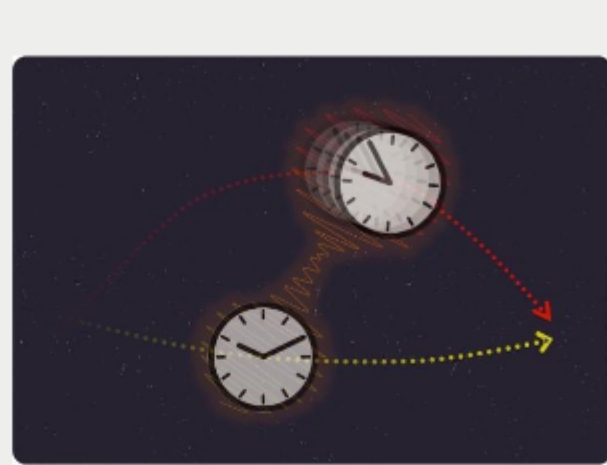


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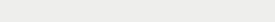


'Quantum Paradox' Experiment Could Enable More Accurate Sensors and Clocks

An international research team will test Einstein's twin paradox using quantum particles in a superposition state — an experiment that could lead to more accurate sensors and clocks. The twin paradox postulates that time can pass at different speeds for people who are at different distances from a large mass or who are traveling at different velocities.

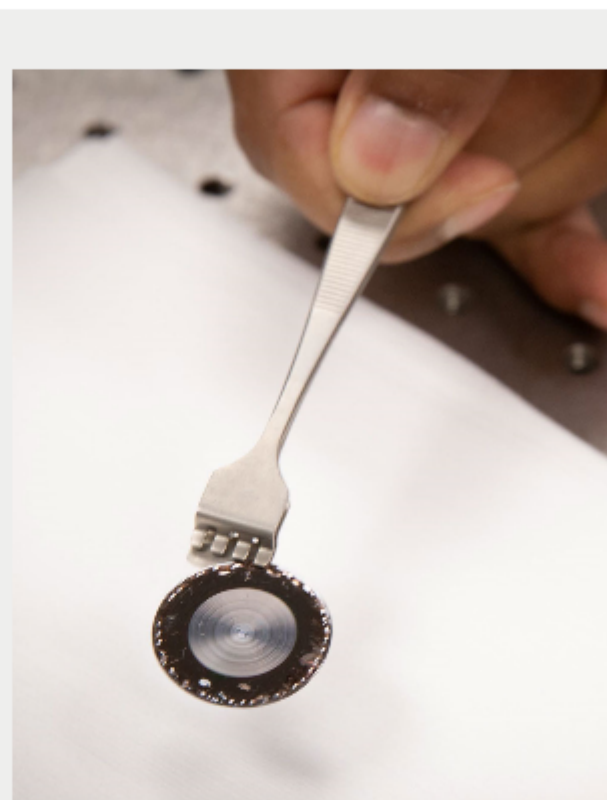


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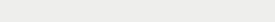


New Lens Could Provide Thermal Imaging Capabilities in a More Compact Camera

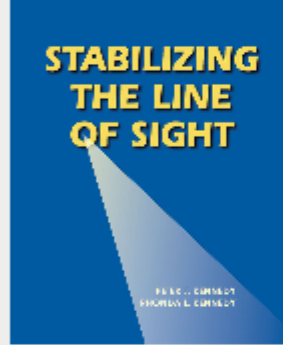
University of Utah researchers have developed a new kind of flat optical lens that is much thinner and lighter than conventional camera lenses. While conventional lenses for smartphone cameras are a couple of millimeters thick, the ultrathin lens is only a few micrometers thick. The new lens can also be used for thermal imaging.



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Featured Products



Stabilizing the Line of Sight

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In *Stabilizing the Line of Sight*, authors Peter J. and Rhonda L. Kennedy provide a methodology and an example for executing a successful end-to-end line-of-sight (LOS) design. Comprehensive in

scope, this book will give readers a better understanding of the relationships between the various engineering disciplines that are required for successful LOS control.

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LIGHT: Introduction to Optics and Photonics, Second Edition

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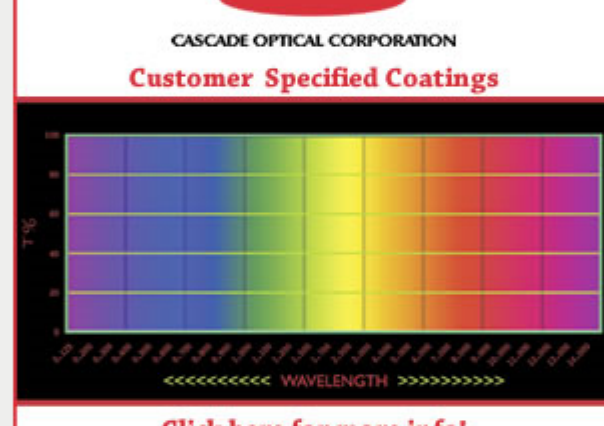
Offering a comprehensive treatment of the subject as well as key applications, and employing minimal math, *LIGHT: Introduction to Optics and Photonics* was written with readers in mind. This textbook is for beginning students of optics

and photonics in high school, community college, and university STEM courses.

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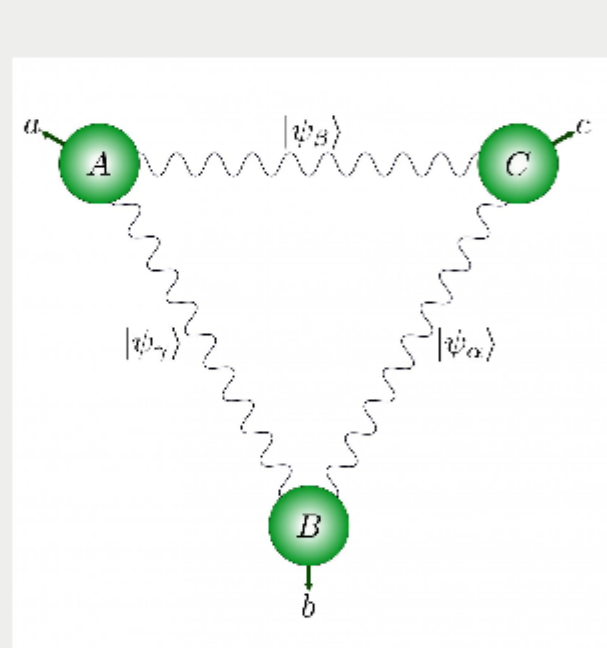
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More News

Entangled Photon Pairs Create Ultrastrong Correlations

Researchers at the University of Geneva (UNIGE), working with Tehran's Institute for Research in Fundamental Sciences (IPM), have shown theoretically that a new, ultrastrong quantum correlation is formed when three pairs of entangled photons are placed in a network.

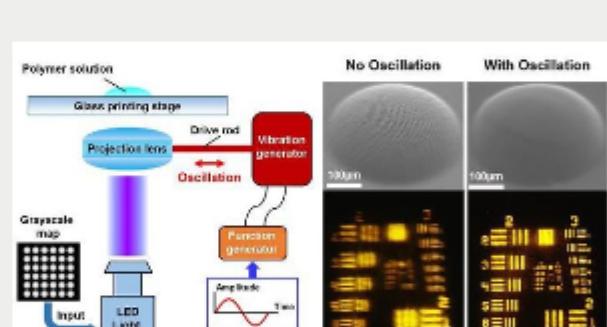


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Microlens Array Printing Made Ultrafast by New Oscillation Assistance Technique

Researchers from the Singapore University of Technology and Design (SUTD) and Southern University of Science and Technology (SUSTech) in China have proposed a fabrication technique that integrates oscillation-assisted digital light processing (DLP) 3D printing with grayscale UV exposure to render an ultrafast and flexible fabrication of microlens arrays with optical surface smoothness.



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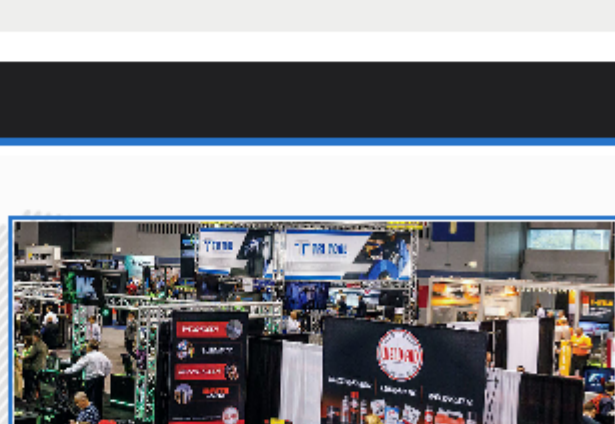
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Industry Events

Fabtech 2019

November 11-14, 2019 - McCormick Place - Chicago United States
More than 48,000 attendees and over 1,700 exhibiting companies are expected to gather for FABTECH 2019, North America's largest metal forming, fabricating, welding, and finishing event. The event offers more than 175 educational sessions and expert-led presentations covering the latest trends and technologies. FABTECH is a convenient venue where you can meet with world-class suppliers, see the latest industry products and developments, network with colleagues, and find the tools to improve productivity, increase profits, and discover new solutions to all of your metal forming, fabricating, welding, and finishing needs.



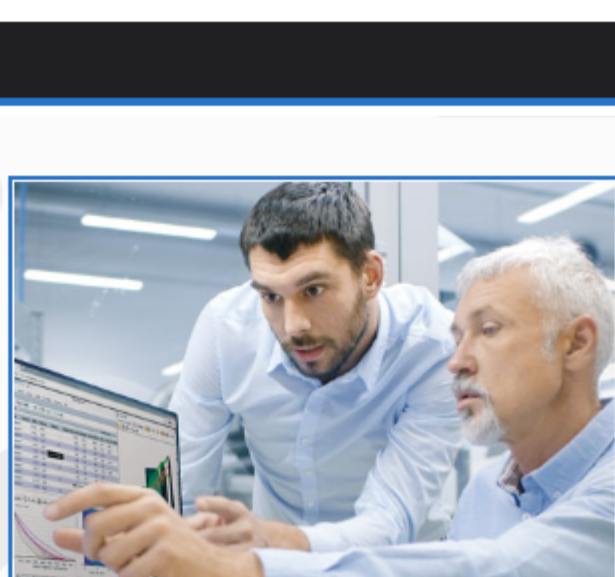
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Webinars

High-Yield Optimization: Streamlining the Path to More Easily Manufacturable Optical Designs

Wed, Nov 6, 2019 1:00 PM – 2:00 PM EST

The conventional optical design approach results in designs that are very sensitive to manufacturing and alignment errors, which means the optical product is difficult to repeatedly manufacture successfully. In this webinar, you will learn about a new method, called High-Yield Optimization, that produces designs that meet tight performance specifications, provide a higher manufacturing yield, and lower manufacturing costs through less waste. High-Yield Optimization will help you optimize for as-built performance, rather than nominal performance. Presented by the founder of Zemax, Kenneth Moore, Ph.D.



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