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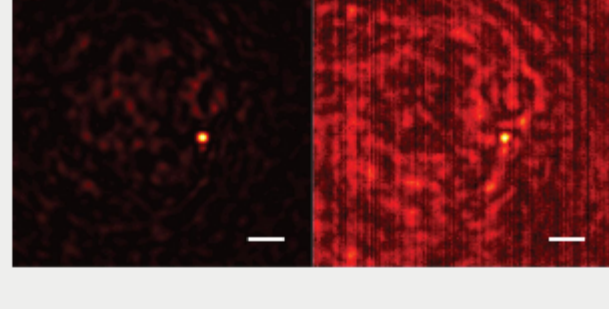


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Inverse, Mie Scattering Techniques Advance 3D Metamaterial Design

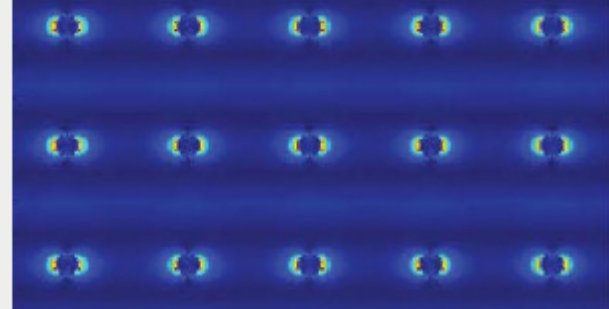
Using an inverse design approach, a team led by researchers at the University of Washington designed and tested a 3D-printed metamaterial that can manipulate light with nanoscale precision. Though the researchers chose a spiral helix pattern for their optical element, they said their approach could be used to design elements that focus light in other patterns.



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Bio Nanolaser Proves Fully Functional in Living Tissue

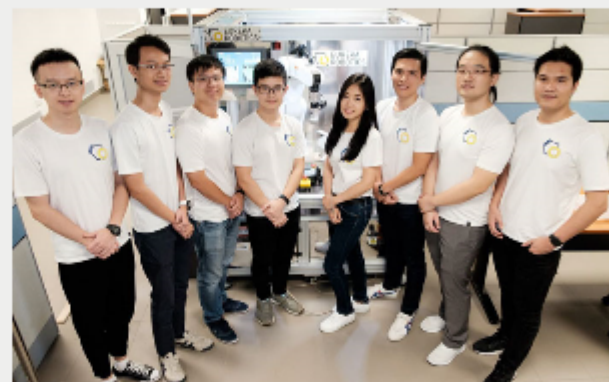
Researchers at Northwestern University have created a nanolaser that can be used in living tissues without harming them. Developed in conjunction with a team from Columbia University, the nanolaser can be 50 nm to 150 nm thick, which allows it to fit and fully function inside living tissues.



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AI-Powered Robot Could Improve Productivity, Reduce Defects in Optics Manufacturing

A robotics technology startup from Nanyang Technological University, Singapore (NTU Singapore), has introduced a new robot that can pick up delicate optical lenses and mirrors with care and precision, just like a human hand. Named Archimedes, the robot can slot lenses and mirrors of different sizes into a custom loading tray to get them ready for coating.



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Featured Products



Superresolution Microscopy Poster

Photonics Media
With interest in the superresolution microscopy field growing rapidly, the editors of BioPhotonics magazine — in collaboration with acknowledged experts — created a poster with readers in mind that is suitable for lab, classroom and office. It features visually stunning, high-resolution images that reveal never-before-seen worlds at the sub-cellular level, illustrating the value of the techniques.

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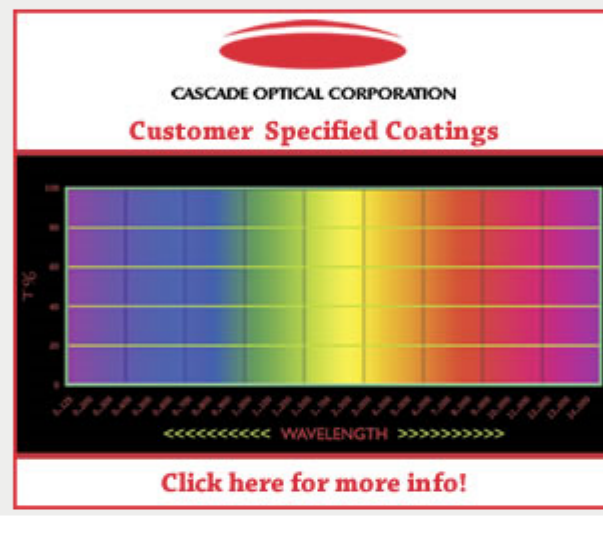


Pulsable IR Source Model EVF-555X

Helioworks Inc.
Helioworks, Inc. offers a a unique pulsed blackbody infrared emitter in an industry standard TO-39 package with approximately 1.6 watts input power at a peak temperature of 700°C (973°K). The radiating element is made of NiCr with a vertical orientation and centered in a Au plated parabolic reflector.

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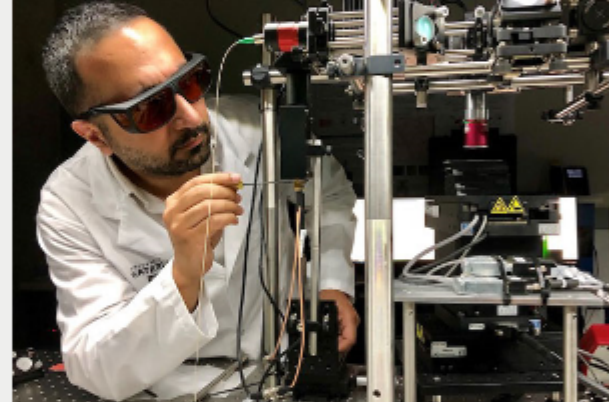
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Photoacoustic Technology May Revolutionize Cancer Surgery

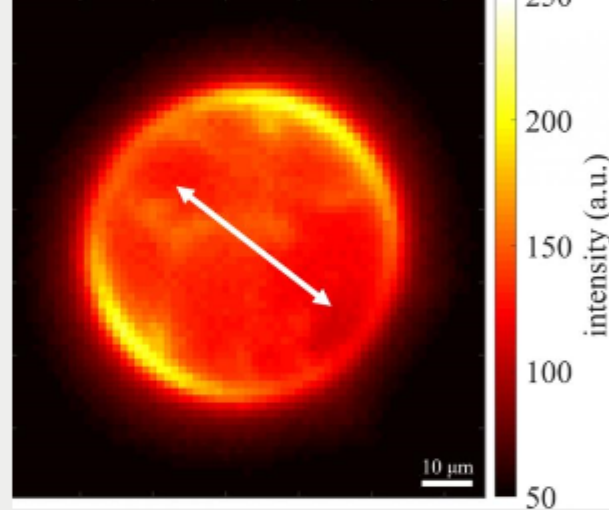
Researchers at the University of Waterloo in Ontario, Canada, have developed photoacoustic technology that can precisely locate and distinguish all of a cancerous tumor during surgery. This could help ensure that healthy tissue remains intact while cancerous tissue is removed and potentially eliminate the need for numerous surgeries.



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Graphene-Based Measurement Technique Boosts Optical Resolution

Researchers at the University of Göttingen have developed a new technique that exploits the unusual properties of graphene to optically measure extremely small distances — to the order of one ångström — for the first time. This could mean big things for superresolution microscopy.



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Industry Events

Neuroscience 2019

October 19-23, 2019 - McCormick Place - Chicago United States
The Society for Neuroscience (SfN) holds its 49th annual meeting October 19-23 at McCormick Place in Chicago. Neuroscience 2019 is the premier venue for neuroscientists to present emerging science, learn from experts, forge collaborations with peers, explore new tools and technologies, and advance careers. Join 30,000 colleagues from more than 70 countries at the world's largest marketplace of ideas and tools for global neuroscience. The conference will feature lectures by world-renowned scientists from around the world, symposia discussing exciting advances in neuroscience, plus nearly 14,000 abstracts with new research, and exhibitors sharing new tools, technologies, and publishing options.



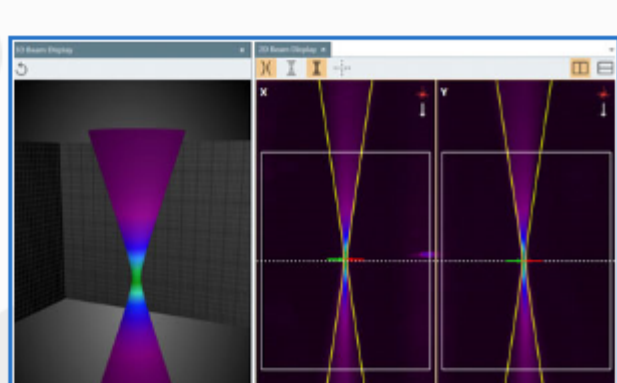
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Webinars

What You Need to Know About Your AM Laser's Personality: Power Is Not the Complete Story

Tue, Oct 22, 2019 1:00 PM - 2:00 PM EDT

The performance of your laser will change over time. A power check will not give you the complete story; to keep the process running efficiently and product quality high, you need a more complete understanding of your laser's personality before and after each build. In this webinar, presented by Ophir, you will learn why laser system performance changes and why it is important to understand — as well as when, how, and how often to measure and analyze the laser's performance.



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