

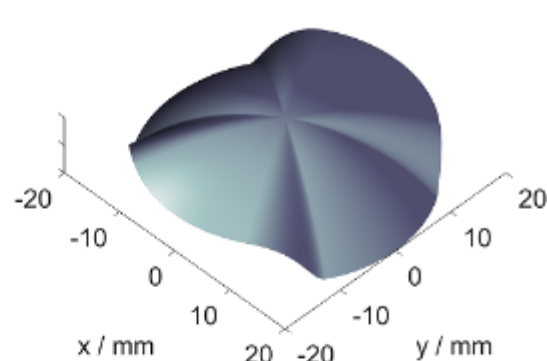


Optics Tech Pulse is a special edition newsletter from Photonics Media and LaCroix Precision Optics covering key developments in optics technology.



Tech Transfer Streamlines Asphere Standards' Implementation

The Physikalisch-Technische Bundesanstalt (PTB, the National Metrology Institute of Germany) reported that it has developed standards for aspheric optics. The standards are intended to improve the calibration of aspheric and freeform surface measuring devices.



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The History of LaCroix Precision Optics

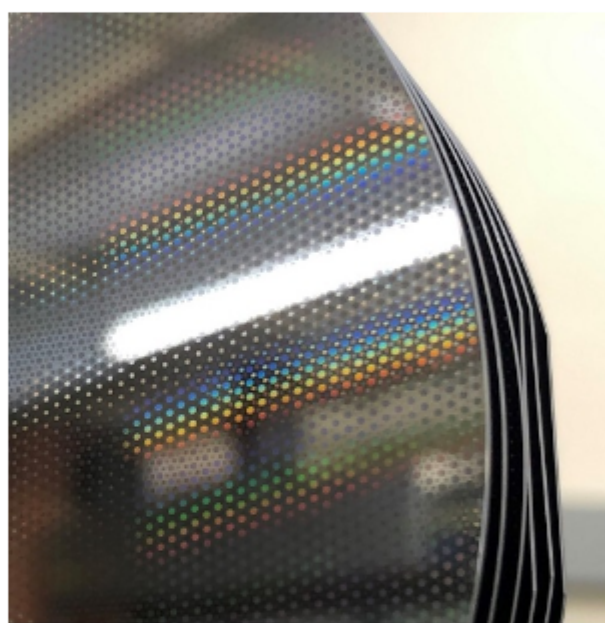
Celebrating 75 years in business, LaCroix Precision Optics is a world-class, customer-driven manufacturer of custom precision optics. Our core competencies include spherical lenses, aspheres, achromats, windows, wedges, prisms, and optical coatings. LaCroix specializes in manufacturing optics that push the boundaries of technology in fields such as Biotech, Defense, and Space Exploration.



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Low-Cost, High Precision Technique Enables Thin Mirrors and Silicon Wafers

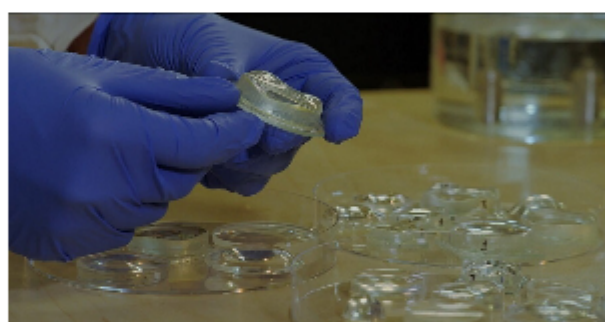
Researchers from MIT have developed a low-cost optical fabrication method that enables the production high-quality thin mirrors and silicon wafers. The method reshapes thin-plate materials in a way that eliminates distortion and enables researchers to bend surfaces more arbitrarily into the precise and complex shapes needed for high-level complex systems.



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Researchers Create Complex Optics Out of a Fluid Situation

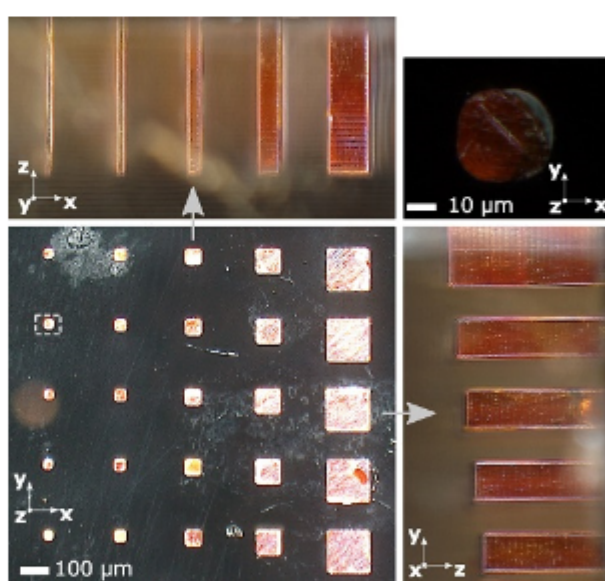
Researchers at Technion: Israel Institute of Technology have developed a method to fabricate freeform optical components by shaping a volume of curable liquid polymer. The work may enable faster prototyping of customized optical components for a variety of applications, including corrective lenses, augmented and virtual reality, autonomous vehicles, medical imaging, and astronomy.



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Combined Glass Fabrication Method Produces Complex Optics

A manufacturing technique for creating microstructures by integrating two types of glass with different physical properties could provide a path to complex infrared (IR) optics to be used in spectroscopy, imaging, sensing, and other applications. École Polytechnique Fédérale de Lausanne researchers developed the technique. It can be used with a variety of glass types to create almost any 3D shape with features measuring 1 μm or less.



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Team Looks to the LWIR to Fabricate Achromatic Metalens

Researchers from the Changchun Institute of Optics, Fine Mechanics and Physics of the Chinese Academy of Sciences demonstrated a broadband achromatic metalens with a numerical aperture of 0.32. The demonstration stemmed from a general method, proposed by the same team, to implement a broadband achromatic metalens in the LWIR band based on the combination of the dynamic and geometric phases.

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