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Transparent Ceramics Find Wide Use in Optics

Polycrystalline ceramics with the cubic spinel structure enable multiple defense applications, including night-vision goggles and IR optics for military systems such as domes, lenses, reconnaissance and sensor windows - they also have applications in nonmilitary arenas such as semiconductor processing, oil and gas drilling, medical optics and lasers.

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Faster Mold Coating Tests Make Glass Processing More Efficient

Bypassing the time-consuming wear stages of heating and cooling allows quick testing of mold coating lifetimes while increasing efficiency for precision glass molding.

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Optical Coatings Take a Leap Forward

A University of Vienna and JILA collaboration builds on advancements in semiconductor lasers, quantum optomechanics and microfabrication to demonstrate low-loss mirrors based on substrate-transferred epitaxial multilayers that exhibit both unprecedentedly low mechanical loss and high optical quality.

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OCT improves S-GRIN lens manufacturing process

Spherical gradient in refractive index (S-GRIN) lenses are lightweight and easily deformable, but manufacturing them with high quality and consistency is challenging. Now, researchers at the University of Rochester are embedding OCT into the manufacturing process to get a better view of the lens' complete structure.

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Spray-on flat lens works in the UV

A new, easily fabricated metamaterial-based flat lens that bends and focuses UV light could improve photolithography, nanoscale manipulation and manufacturing, and even high-resolution 3-D imaging, say its developers at NIST.

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