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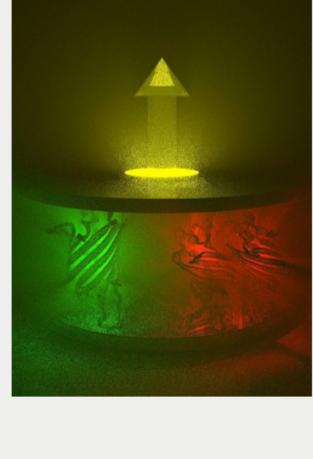
New Resources Added

Always Open

Jellyfish Proteins Used to Create Unconventional Laser A polariton laser based on lab-grown, fluorescent jellyfish proteins could impact the

fabrication of artificial optical devices, advance the field of optical computing — as it requires less energy than conventional lasers — and aid in new biomedical

applications serving as a bio-compatible, bio-implantable light source of sorts. The green fluorescent protein (GFP) found in the pacific jellyfish Aequorea Victoria is the energy acceptor in the natural bioluminescence of the animal.



NASA Investigates Optical Coatings for Far-UV Spectral

Range

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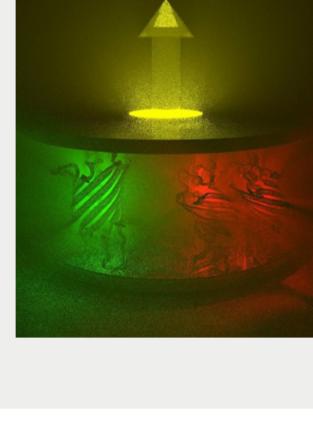




To meet the projected goals for its next generation of space telescopes, NASA is taking on a new optical challenge — the fabrication of protective coatings for

mirrors to be used for astrophysics studies in the Lyman Alpha range. So far, no one has developed a coating that effectively protects and maintains an aluminum

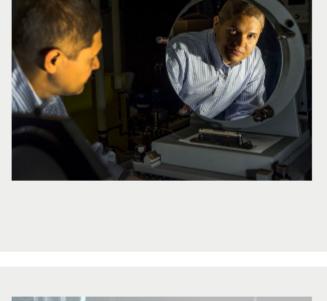
mirror's high reflectivity in the 90- to 130-nm range. At this spectral regime,



scientists can observe an assortment of spectral lines and astronomical targets.

Large-Scale Quantum Emitter Arrays Could Generate Single Photons on Demand Quantum light emitters have been observed previously in atomically thin layers of

transition metal dichalcogenides (TMDs). However, they have been found at random locations within the host material and usually in low densities, hindering



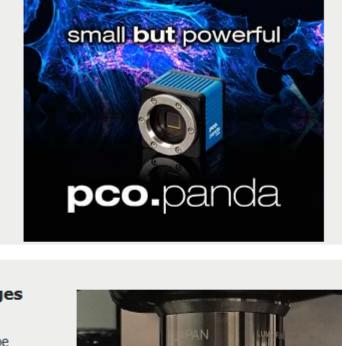
experiments aiming to investigate this class of emitters. To facilitate investigation, deterministic arrays of hundreds of quantum emitters were created using different TMD materials, emitting across a range of wavelengths in the visible spectrum.

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Cities, University of Wisconsin-Madison, and University of Alabama-Birmingham used laser-based 3D bioprinting techniques to incorporate stem cells derived from adult human heart cells on a matrix that began to grow and beat synchronously in

a dish in the lab.

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3D-Printed Patch Mends Hearts



3 A B D

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A new 3D-laser-printed patch has been developed that can help heal scarred heart

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Tue, Jun 27, 2017 2:00 PM - 3:00 PM EDT Nirmala (Nimmi) Ramanujam, Ph.D., will speak on optical tools and techniques she is developing for cancer screening in resource-limited settings. Professor

Optics-Based Tools for Cancer Care

Ramanujam is leading a multi-disciplinary effort to translate these technologies to clinical applications in the breast and cervix. In addition to her academic efforts, professor Ramanujam has spun out a company, Zenalux, to commercialize several of the technologies developed in her lab and is developing and creating the processes to move technologies further down the commercialization pipeline within Duke. Ramanujam is Robert W. Carr Jr. professor of Biomedical Engineering, professor in Pharmacology & Cancer Biology and Global Health, and

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