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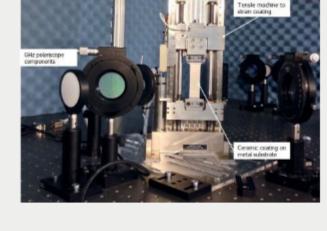
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Optical Approach Finds Jet Thermal Coating Weak Spots

A strain-measurement technique uses optical analysis to reveal weak

areas in the ceramic thermal barrier coatings that protect jet engine turbines from high temperatures and wear. This technique could be used to predict coating lifetime and could lead to novel thermal barrier coatings that would make engines more efficient.



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Telescope Efficiency

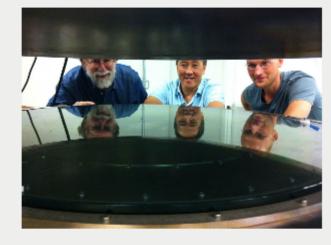






Scientists are adapting atomic layer deposition (ALD), a technique widely used in the microelectronics industry, to develop protected

silver coatings suitable for telescope mirrors. These coatings could help telescopes maintain high reflectivity at wavelengths from 340 nm through the mid-IR spectrum. Most astronomical...



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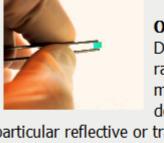
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range are critical parameters in many spectrometric instrument designs. Understanding why a particular reflective or transmission diffraction grating may have small yet necessary performance differentiation for

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The development of small autonomous robots through a 10-year effort led by the U.S. Army Research Laboratory (ARL) is helping to inform the development of future swarms of collaborative, heterogeneous Army systems for air and ground.

Researchers from ARL, the Army's corporate laboratory and their academic partners... Read Article

US Army Research Helping the Development of Autonomous Sight Systems

BGU to Analyze Israel's VENUS Satellite Images Ben-Gurion University of the Negev (BGU) is playing a key role in the







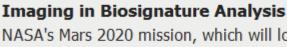
satellite launched at the Guiana Space Center in Kourou, Guiana.

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research component of the Vegetation and Environment Monitoring on a New Micro Satellite (VENµS), Israel's first environmental research



NASA's Mars 2020 mission, which will look for signs of past life on Mars, will use smart methods originally developed to find the oldest life on Earth. A concept image of the Mars 2020 Rover. Courtesy of





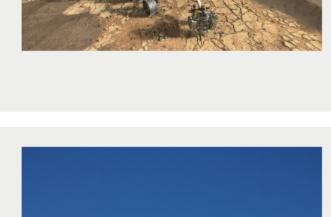


NASA Mars 2020 to Use Spectroscopy, Fluorescence

rovers to make coordinated measurements that...

NASA/JPL-Caltech. The 2020 mission builds on the successes of prior

HRL Laboratories Receives NASA Award for 3D-Printed **Rocket Development** HRL Laboratories LLC has received an award as part of NASA's Space



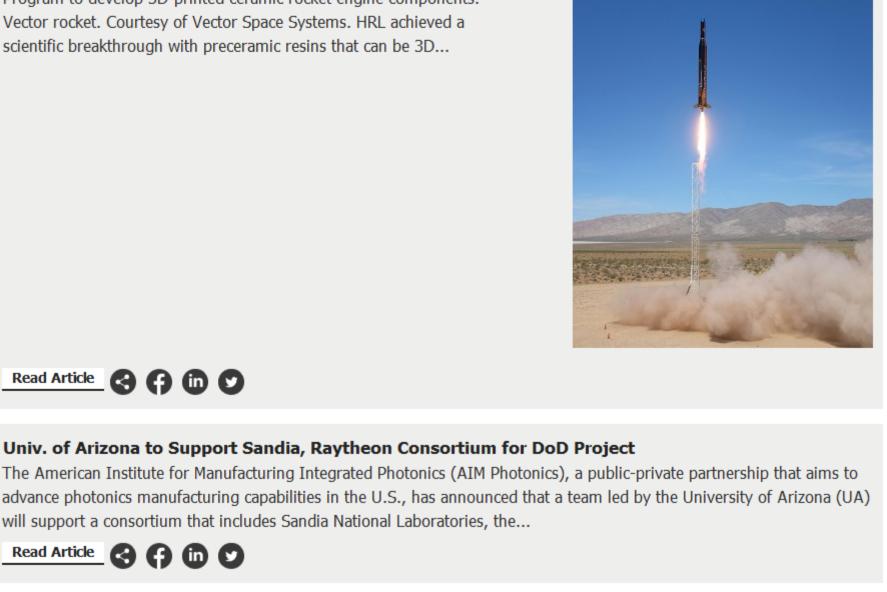
Technology Research, Development, Demonstration and Infusion Program to develop 3D-printed ceramic rocket engine components. Vector rocket. Courtesy of Vector Space Systems. HRL achieved a







scientific breakthrough with preceramic resins that can be 3D...



will support a consortium that includes Sandia National Laboratories, the...

Applications



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Webinars Mobile Hyperspectral Imagers: Implementations and

Tue, Oct 10, 2017 1:00 PM - 2:00 PM EDT

This webinar will provide an overview of the state of the art in hyperspectral imaging (HSI) and cover a number of diverse

applications for HSI, from medical imaging to agriculture and anticounterfeiting. The webinar will conclude with an outlook on some of the exciting new technologies that are expected to continue to transform this imaging modality and move it into the domain of the consumer. Presenter Hod Finkelstein is CTO of TruTag Technologies where he leads imaging systems development and microparticle productization teams. Register Now

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