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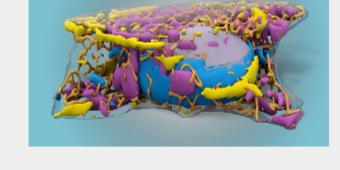




Machine Learning Enables Label-Free Prediction of 3D

Images from Transmitted-Light Microscopy Scientists have used machine learning to develop a label-free tool for

predicting 3D fluorescence directly from transmitted-light images. Instead of fluorescence microscopy, the new method uses only blackand-white images generated by a bright-field microscope.



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NUS Team Enables Solar-Powered Drone Flight

step forward in stretching the capabilities of quadcopter drones by powering the flight solely by natural sunlight. A first in Asia, the

current prototype has flown >10 m in test flights, utilizing solar power with no battery or other energy storage on board. Read Article

A team from the National University of Singapore has achieved a major









materials in two classes of crystals: garnets and perovskites. They

trained artificial neural networks to predict a crystal's formation energy using just two inputs: electronegativity and ionic radius of the constituent atoms. Read Article

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At last, a reference work has been

Optical Biomedical Imaging

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ContrastMax filters from Chroma feature sputtered interference coatings engineered for automated vision applications like machine vision and robotic guidance. These optical filters offer superior levels of contrast and

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Machine Vision

blocking of unwanted light, while also performing well at wide viewing angles. Visit Website Request Info sponsors





Optical Response Scientists have used qualitative analytical modeling and first-principles

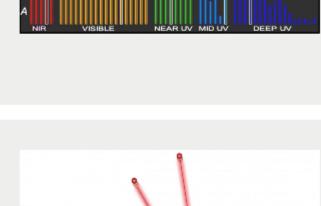
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response in 55 different 2D materials. The study suggests several 2D materials that could be used in ultrathin reflectors and absorbers for optoelectronic applications.

calculations to determine the theoretical limit of the maximum optical

Rice Researchers Investigate 2D Materials for Maximum

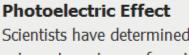
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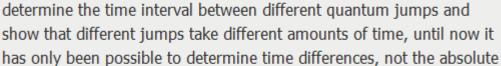


Scientists have determined the duration of the photoelectric effect using a tungsten surface. While scientists have previously been able to



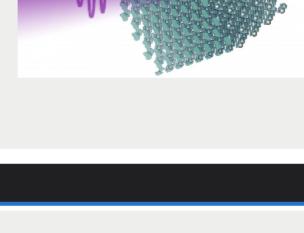
duration of the process.





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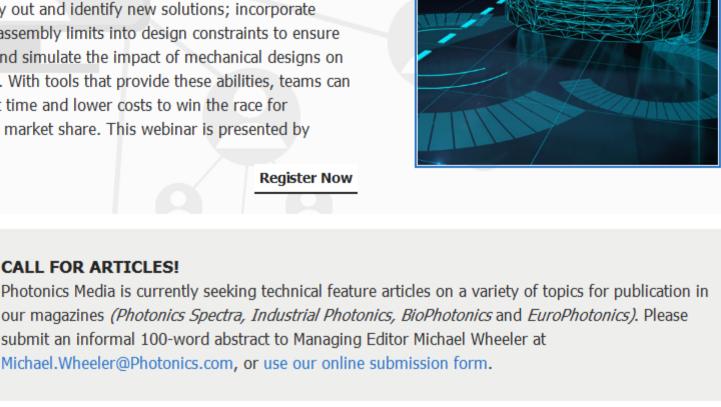
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crucial to accelerating the development of lidar, including the need to be able to quickly try out and identify new solutions; incorporate manufacturing and assembly limits into design constraints to ensure

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