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Computing at the speed of light has been a long time coming, but a new generation of optical processors promise to be faster - and cooler - than electronic incumbents.

~~Optical processors light the path to warp factor computing~~

With its new chip architecture, Nvidia is promising to bring the sort of high-quality graphics previously reserved for the highest-end video games and big-budget Hollywood movies into the engineering ...

~~Why Every Engineer Needs to Know about Ray Tracing~~

Long Red-light times are "What's Driving You Crazy?" this week. Sometimes it feels like you are sitting at

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an intersection forever! George asks: How is the length of a red light determined? We got an ...

~~What 's Driving You Crazy? — Red-light times~~

The researchers developed a paste made from titanium dioxide and resonant silicon nanoparticles that serves as an additional layer in the process of producing solar cells. The Mie-resonant particles i ...

~~ITMO: ITMO Researchers Create Nanoparticle Paste To Maximize Perovskite Solar Cell Efficiency~~

(Nanowerk News) Researchers from ITMO 's School of Physics and Engineering have created ... the efficiency of converting light into electricity, as well as all main photovoltaic parameters. Using multi ...

~~Researchers create nanoparticle paste to make perovskite solar cells more efficient~~

1 School of Engineering ... Light green indicates the reciprocal vectors of the square lattice. (D) Spatial distribution of SWs in magnitude (left) and phase (right) at $f = 1.80$ GHz propagating in the ...

~~Direct observation of multiband transport in magnonic Penrose quasicrystals via broadband and phase-resolved spectroscopy~~

varied the voltage applied to their molecular ... as confirmed by the authors using a light-scattering technique called Raman spectroscopy and first-principles calculations. As with oxide ...

~~Molecular memristors offer a path to ultra-efficient computing~~

Scientists have imaged atoms on the surface layer of

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perovskite – a revolutionary crystal material that harvests light in next ... Through theoretical calculations performed by the collaborators ...

~~Time to shine: scientists reveal at an atomic scale how chlorine stabilizes next-gen solar cells~~

A monochromator is an optical instrument that permits only a narrow selection of wavelengths to be transmitted from a source, and the particular model [Doug] obtained renders visual light ...

~~Vintage Monochromator Makes Monochromatic Light, Mechanically~~

By looking closely at the color distribution and brightness of this blue light, i.e. the optical spectrum, it can be concluded that the blue glow arises from electrons with negative mass.

~~Effect of electrons with negative mass in novel semiconductor nanostructures~~

In a study recently published in Applied Materials Today, researchers from the University of Tsukuba have revealed that ultraviolet light can ... and corresponding calculations confirmed this ...

~~New opportunities for light-powered battery and fuel cell design~~

A new study published today in the journal Environmental Science & Technology finds that exposing certain nanomaterials to light can influence their environmental ... an associate professor of civil ...

~~What Are the Environmental Implications When Engineered Nanomaterials Degrade?~~

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She explored the current state of such knowledge in papers in the 2021 Annual Review of Fluid Mechanics and the Annual Review of Biomedical Engineering ... dynamics with applied questions about ...

~~To Understand Airborne Transmission of Disease, Follow the Flow~~

The TrailSport off-road system is the first time this expertise has been applied ... to our existing light trucks that will appeal to buyers seeking adventure, Our U.S. engineering team is ...

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