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In optics, an ultrashort pulse of light is an electromagnetic pulse whose time duration is of the order of a picosecond (10^{-12} second) or less. Such pulses have a broadband optical spectrum, and can be created by mode-locked oscillators. They are commonly referred to as ultrafast events. Amplification of ultrashort pulses almost always requires the technique of chirped pulse amplification ...

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desired to evaluate the unique phenomena and uncover the underlying mechanisms. In this work, we address this limitation through two-photon photoluminescence (TPPL) measurements with a homemade Michelson interferometer by using ultrashort femtosecond laser pulses. Ultrafast dynamics of individual Au nanobipyramids (AuNP) on a global time scale—from sub-femtosecond to tens of picoseconds ...

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J. Diels and W. Rudolf, Ultrashort Laser Pulse Phenomena, Second Edition (Massachusetts, Academic Press, 2006). E. Oran Brigham, The Fast Fourier Transform: An Introduction to Its Theory and Application (New Jersey, Prentice Hall, 1973). To learn about dispersion compensation using a prism compressor, see Newport's Application Note 29

[RP Photonics Encyclopedia - Q switching, Q-switched laser ...](#)

This requires tools that work at ultrashort and ultrafast space and time scales. Scientists realized this dream in 2009 with the world's first hard X-ray free-electron laser, the Linac Coherent Light Source (LCLS). But each LCLS X-ray pulse has a slightly different intensity and wavelength distribution, a challenge for experiments. A new oscillator design overcomes these problems with an ...

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In this paper, we report the use of a 3-meter low-loss anti-resonant hollow-core fiber (AR-HCF) to deliver up to 300 W continuous-wave laser power at 1080 nm wavelength from a commercial fiber laser source. A near-diffraction-limited beam is measured at the output of the AR-HCF and no damage to the uncooled AR-HCF is observed for several hours of laser delivery operation.

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Laser Powder Bed Fusion (LPBF) is an Additive Manufacturing technique, which allows production of highly complex solid metal parts with good mechanical properties, compared to conventionally manufactured parts. Nevertheless, the layer-by-layer fabrication process also offers several disadvantages, including a relatively high surface roughness depending on the shape of the component, its ...

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We shape fs optical pulses and deliver them in a single spatial mode to the input of a multimode fiber. The pulse is shaped in time such that at the output of the multimode fiber an ultrashort pulse appears at a predefined focus. Our result shows how to raster scan an ultrashort pulse at the output of a stiff piece of square-core step-index multimode fiber and in this way show the potential ...

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Similar phenomena have been reported in 2D antimonene ... Optical image shows amorphized regions (blue disks) using single laser pulse (200 fs) with increasing energy E_p (from bottom to top). (C) Large area switching of the c-Sb sample (c-Sb background) through single femtosecond pulse (200 fs, $E_p = 0.56$ nJ) while raster scanning the sample (moving speed, 500 μ m/s). a-Sb1 and a-Sb2 are ...

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Three phenomena — reflection, refraction, and diffraction — help you predict where a ray or rays of light will go. Other important optics topics include interference, polarization, and fiber optics. Reflection and Refraction Equations for Predicting Light's Direction. Reflection and refraction are two processes that change the direction light travels. Using the equations for calculating ...

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TF fictive temperature T_l insertion loss resulting from a lateral offset between jointed optical fibers T_n 10 to 90% rise time arising from intermodal dispersion on an optical fiber link T_0 threshold temperature (injection laser), nominal pulse period (PFM-IM) T_R 10 to 90% rise time

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at the regenerator circuit input (PFM-IM) TS 10 to 90% rise time for an optical source T_{sys} total 10 to 90 ...

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