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High-speed photography is the science of taking pictures of very fast phenomena. In 1948, the Society of Motion Picture and Television Engineers (SMPTE) defined high-speed photography as any set of photographs captured by a camera capable of 69 frames per second or greater, and of at least three consecutive frames.

High-speed photography - Wikipedia

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The streak camera is an ultra high-speed detector which captures light emission phenomena occurring in extremely shorttime periods.

The streak camera is an ultra high-speed detector which

Ultra-high vacuum (UHV) is the vacuum regime characterised by pressures lower than about 10^{-7} pascal or 100 nanopascals (10^{-9} m bar, $\sim 10^{-9}$ torr).

Ultra-high vacuum - Wikipedia

3474 LU XianYong, et al. Chinese Sci Bull October (2010) Vol.55 No.30 ried out on a PerkinElmer Pyris 1 analyzer. The temperature range was set between 20 and 850°C with a temperature

One-pot synthesis of PVP-coated Ni Fe O nanocrystals

Atom Probe Tomography (APT) is a state-of-the-art analytical method that allows for three-dimensional elemental mapping with near atomic resolution.

APT, tomographic atom probe, atom probe tomography, steel

Establishing a reliable communication interface between the brain and electronic devices is of paramount importance for exploiting the full potential of neural prostheses.

materials science - Institute of Physics

Inert hexagonal Ni₃N can be activated by an extrinsic metal-incorporating strategy with in situ etching that uses cubic Ni₃FeN. Vacancy-rich Ni₃FeN catalysts kinetically regulate polysulfide-involving reactions at high rates for use in advanced lithium-sulfur batteries.

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Journal of Electrochemical Science and Technology - JECST

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Denver X-ray Conference Program - dxcicdd.com

The key developments in regards to corrosion of Mg alloys are summarized pictorially in Fig. 2. It is noted that a recent surge in activity in the last decade has indicated that there is significant problems that the issues typically associated with Mg alloys are capable of being resolved.

Fundamentals and advances in magnesium alloy corrosion

ABSTRACT. Nanocomposites, a high performance material exhibit unusual property combinations and unique design possibilities. With an estimated annual growth rate of about 25% and fastest demand to be in engineering plastics and elastomers, their potential is so striking that they are useful in several areas ranging from packaging to ...

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