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Applications of Laser-Plasma Interactions reviews the current status of high power laser applications. The book first explores the science and technology behind the ignition and burn of imploded fusion fuel, before describing novel particle accelerators. It then focuses on applications of high power x-ray sources and the development of x-ray lasers.

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Applications of Laser-Plasma Interactions - 1st Edition ...

Laser-Plasma Interaction. Inertial confinement fusion (ICF) is based on implosion of spherical shells. Intense laser beam ablation of the shell's outer surface creates the rocket reaction providing the momentum of the implosion. This same ablation instantly creates an outwardly moving plasma, within which the laser beam must propagate. The intense laser beam can create a variety of secondary processes in this plasma.

Laser-Plasma Interaction - Laboratory for Laser Energetics

In addition, two diagnostics—a Lanex scintillating screen and an extreme-ultraviolet spectrometer- were applied to study the laser-plasma interaction during the experiment.

A breakthrough in the study of laser/plasma interactions

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Laser-Plasma Interactions and Applications covers the fundamental and applied aspects of high power laser-plasma physics. With an internationally renowned team of authors, the book broadens the knowledge of young researchers working in high power laser-plasma science by providing them with a thorough pedagogical grounding in the interaction of laser radiation with matter, laser-plasma accelerators, and inertial confinement fusion.

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The long-term goal of these laser-plasma accelerators (LPAs) is

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to one day build colliders for high-energy research, but many spin offs are being developed already. For instance, LPAs can quickly deposit large amounts of energy into solid materials, creating dense plasmas and subjecting this matter to extreme temperatures and pressure.

A Breakthrough in the Study of Laser/Plasma Interactions

The laser irradiation have shown a range of applications from fabricating, melting, and evaporating nanoparticles to changing their shape, structure, size, and size distribution. Laser induced plasma has used for different diagnostic and technological applications as detection, thin film deposition, and elemental identification.

Laser-Induced Plasma and its Applications | IntechOpen

The main topics are the interaction of ultra-intense laser and plasma for the intensity near and over 10^{18} W/cm². In such

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regime, relativistic dynamics become essential. A new physics appears due to the relativistic effects, such as mass correction, relativistic nonlinear force, chaos physics of particle motions, and so on.

The Physics of Laser Plasmas and Applications - Volume 1

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Many applications in which there are plasma interactions involve densities where the medium behaves largely as a fluid. The basic behavior in terms of energy input, force applications, and the influence of magnetic and electric fields is that of a continuum fluid (Shercliff, 1965). So this description and interpretation can serve as a starting point to understand the complex behavior of plasmas; we then can improve the modeling and experiments to clarify uniqueness of regimes and ...

Plasma Interaction - an overview | ScienceDirect Topics

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Applications range from energy production by thermonuclear fusion to laboratory astrophysics, creation of intense sources of high-energy particle and radiation beams, and fundamental studies involving high-field quantum electrodynamics.

Plasma Physics: Applications | edX

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Laser-Plasma Interactions and Applications by Paul McKenna ...

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We report experimental research on laser plasma interaction (LPI) conducted in Shenguang laser facilities during the past ten years. The research generally consists of three phases: (1) developing platforms for LPI research in mm-scale plasma with limited drive energy, where both gasbag and gas-filled hohlraum targets are tested; (2) studying the effects of beam-smoothing techniques, such as ...

Recent research progress of laser plasma interactions in

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