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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

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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

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an extreme-ultraviolet spectrometer- were applied to study the laser-plasma interaction during the experiment.

A breakthrough in the study of laser/plasma interactions

Laser-Plasma Interactions and Applications covers the fundamental and applied aspects of high power laser-plasma

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

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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

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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.

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

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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 ...

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astrophysics, creation
of intense sources of
high-energy particle
and radiation beams,
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We report

experimental research

on laser plasma

interaction (LPI)

conducted in

Shenguang laser

facilities during the

past ten years. The

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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 ...

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