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Applications of laser-driven particle and radiation sources; High-field physics; Ultrafast probing of matter; Laser-plasma interactions is a strategic focus area of the Strathclyde Global Talent Attraction Platform, which seeks to make appointments across the University at a variety of academic levels.

Laser-Plasma Interactions | University of Strathclyde

The main topics are the interaction of ultra-intense laser and plasma for the intensity near and over 10 18 W/cm 2. 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.

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

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

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intense laser plasma interaction generally characterized by focused laser intensities exceeding 1 tw cm2 is a major pillar of plasma physics and nonlinear optics with broad applications including high energy