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Cold plasma technologies have found extensive application in material processing for over 30 years and they are now widely used in the manufacture of semiconductors, magnetic media and special glasses, and for metal coating, etc.

Cold Plasma - an overview | ScienceDirect Topics

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In the laboratory, cold plasmas are generally produced by the provision of electrical energy to different inert gases. This can be done at room temperature and at atmospheric pressure. This means that we avoid all the hassles of big costly instruments, making cold plasma technology affordable.

Cold plasma: What is it and how can it be used?

Typically, plasmas used for materials processing and nanotechnology are of relatively low electron density (i.e. number of electrons is less than one millionth of the gas molecules), and are “cold”, meaning that the gas is at a relatively low temperature of 300-500 K, electrons are “hot” with temperature larger than 11600 K (1eV).

PLASMA ENABLED NANOFABRICATION AND APPLICATIONS - About ...

A nonthermal plasma, cold plasma or non-equilibrium plasma is a plasma which is not in thermodynamic equilibrium, because the electron temperature is much hotter than the temperature of heavy species (ions and neutrals).As only electrons are thermalized, their Maxwell-Boltzmann velocity distribution is very different than the ion velocity distribution.

Nonthermal plasma - Wikipedia

Materials are either continuously cast, extruded, HIP'ed or plasma sprayed to provide technological advances in rotary design. In addition, unique profiles can be developed for specific applications to provide targets for better wear characterization, longer life, unique physical characteristics or altered metallurgical properties.

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