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A pinch is the compression of an electrically conducting filament by magnetic forces. The conductor is usually a plasma, but could also be a solid or liquid metal. Pinches were the first type of device used for controlled nuclear fusion.. The phenomenon may also be referred to as a Bennett pinch (after Willard Harrison Bennett), electromagnetic pinch, magnetic pinch, pinch effect or plasma pinch.

Pinch (plasma physics) - Wikipedia

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

Materia Nova CHIPS departement has developed plasma technologies to modify the surface of materials. This powerful technology can develop new solutions for direct industrial applications.

Plasma technologies - Materia Nova

The technique of current splitting is presented as part of an integrated circuit development for an X-ray imager. This method enables integration of charge signals of unprecedented magnitude in small pixels, achieving a dynamic range of $\{10^5\}$.

Physics authors/titles "new" - arXiv

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Plasma Applications and References - Plasma Etch, Inc.

Open Physics (former Central European Journal of Physics) is a peer-reviewed Open Access journal, devoted to the publication of fundamental research results in all fields of physics.

Open Physics

Calculation of the Fine-Structure Constant. Authors: Jesús Sánchez Comments: 10 Pages. Published on: Journal of High Energy Physics, Gravitation and Cosmology, 2018, 4, 510-518. The fine-structure constant α [1] is a constant in physics that plays a fundamental role in the electromagnetic interaction.

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Nanotechnology - IOPscience

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Numerical Analysis authors/titles recent submissions

Background. Cold plasma (CP) is an emerging technology, which has attracted the attention of scientists globally. It was originally developed for ameliorating the printing and adhesion properties of polymers plus a variety of usage domains in electronics.

A review on recent advances in cold plasma technology for ...

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Department of Physics and Astronomy < University of ...

Synthesis and characterization. To synthesize plasma-activated Cu, electropolished polycrystalline Cu foils were treated in O₂ and H₂ plasmas of varying power and duration. Figure 1 presents ...

Highly selective plasma-activated copper catalysts for ...

The O₂ plasma-treated V doped Ni₂P (O-V-Ni₂P) was prepared by hydrothermal method followed by phosphidation and plasma treatment.. V incorporation into Ni₂P show noticeable enhancement in charge transfer kinetics both theoretically and experimentally.. Ni-V co-electron deficiency centers causing Ni site to be more susceptible to OH – adsorption, which is beneficial for the OER.

O₂ plasma and cation tuned nickel phosphide nanosheets for ...

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Adhesive-free adhesion between heat-assisted plasma ...

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