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Atmospheric pressure non-thermal plasma can be used to promote chemical reactions. Collisions between hot temperature electrons and cold gas molecules can lead to dissociation reactions and the

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subsequent formation of radicals. This kind of discharge exhibits reacting properties that are usually seen in high temperature discharge systems.

Nonthermal plasma - Wikipedia

If the rate of energy transfer from the plasma electrons to the neutral gas is limited, and/or cooling of the gas is fast and effective, then the electron temperature significantly exceeds that of neutrals ($T_e \gg T_0$) and the plasma becomes non-thermal and strongly non-equilibrium. Most of the conventional non-thermal plasma discharges are organized at low pressures, where the neutral gas cooling by the walls is much faster.

Non-Thermal Atmospheric Pressure Plasma - ScienceDirect

More recently non-thermal atmospheric pressure plasmas have been studied for a variety of industrial and medical applications such as sterilization, ozone production for water purification, pollution control applications, car exhaust emission control, volatile organic compounds removal, and polymer surface treatment in order to improve properties such as wettability, printability and adhesion.

Thermal and Non-Thermal Plasmas at Atmospheric Pressure ...

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Nonthermal atmospheric biocompatible plasma (NBP) was found to produce promising anticancer effects on glioblastoma cells in vitro and in vivo . Atmospheric pressure plasma jets can significantly destroy cancer cells without damaging healthy cells.

Non-Thermal Atmospheric Pressure Bio-Compatible Plasma ...

T1 - Bactericidal efficacy of atmospheric pressure non-thermal plasma (APNTP) against the ESKAPE pathogens. AU - Flynn, Padrig B. AU - Higginbotham, Sarah. AU - Alshraiedeh, Nid'a H. AU - Gorman, Sean P. AU - Graham, William G. AU - Gilmore, Brendan F. PY - 2015. Y1 - 2015

Bactericidal efficacy of atmospheric pressure non-thermal ...

Generation of atmospheric pressure non-thermal plasma by diffusive and constricted discharges in air and nitrogen at the rest and flow To cite this article: Yuri Akishev et al 2010 J. Phys.: Conf. Ser. 257 012014 View the article online for updates and enhancements. Related content Non-equilibrium constricted dc glow

Generation of atmospheric pressure non-thermal plasma by ...

OBJECTIVES: In this clinical study, we aim to evaluate the effectiveness of non-thermal atmospheric pressure plasma (NAPP), which is a novel procedure used in periodontal pocket decontamination

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adjunctive to non-surgical periodontal treatment (NSPT). METHODS: The study included 25 systemically healthy periodontitis patients.

Evaluation of efficacy of non-thermal atmospheric pressure ...

Advances in plasma physics have made it possible to use non-thermal atmospheric pressure plasma (NTP) in cancer research. However, previous studies have focused mainly on apoptotic cancer cell death mediated by NTP as a potential cancer therapy.

Non-Thermal Atmospheric Pressure Plasma Inhibits Thyroid ...

Non-thermal Atmospheric Plasma (NTAP) is a cutting-edge technology which has gained much attention during the last decade in the food-processing sector as a promising technology for food preservation and maintenance of food safety, with minimal impact on the quality attributes of foods, thanks to its effectiveness in microbial inactivation, including of pathogens, spoilage fungi and bacterial spores, simple design, ease of use, cost-effective operation, short treatment times, lack of toxic ...

Frontiers | A Review on Non-thermal Atmospheric Plasma for ...

Amorphous TiO₂ thin films were respectively annealed by 13.56 MHz radio frequency (RF) atmospheric pressure plasma at discharge powers

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of 40, 60, 80 W and thermal treatment at its corresponding substrate temperature (T_s). T_s was estimated through three measurement methods (thermocouple, Newton's law of cooling and OH optical emission spectra simulation) and showed identically close results ...

The Effects of Thermal and Atmospheric Pressure Radio ...

Non-thermal atmospheric pressure plasma offers a promising opportunity for the preservation of fresh food. The antimicrobial effects of plasma are well-known and investigated [1]. Here, a microwave driven torch was studied for its antimicrobial efficacy as well as its impact on the quality of agricultural important seeds, fresh

Non-Thermal Atmospheric Pressure Plasmas for Food ...

Atmospheric pressure non-thermal plasma is proposed as a potential new approach for the treatment of infected tissue such as chronic wounds, with both antibacterial and wound-healing activities extensively described. Using both the RAW264.7 murine macrophage cell line in vitro assays and the *Galleria mellonella* insect in vivo toxicity model ...

Atmospheric pressure non-thermal plasma exposure reduces ...

The pressure they operate at—vacuum pressure (< 10 mTorr or 1 Pa),

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moderate pressure (?1 Torr or 100 Pa), atmospheric pressure (760 Torr or 100 kPa) The degree of ionization within the plasma—fully, partially, or weakly ionized; ... non-thermal or "cold" plasma ...

Plasma (physics) - Wikipedia

Non-thermal atmospheric pressure plasma is a novel approach for wound healing, blood coagulation, and cancer therapy. A recent discovery in the field of plasma medicine is that non-thermal atmospheric pressure plasma not only directly but also indirectly affects cells via plasma-treated liquids.

Non-thermal atmospheric pressure plasma activates lactate ...

A nonthermal, atmospheric pressure, packed-bed plasma reactor has been used to study the effect of temperature on the plasma-catalytic destruction of toluene and benzene in air. The plasma reactor was packed with BaTiO₃ beads to which TiO₂, γ -Al₂O₃, and Ag, Pt, or Pd impregnated catalysts were added. The reactor can be heated up to 500 °C, and the destruction efficiencies for toluene ...

Temperature Dependence of Plasma-Catalysis Using a ...

Non-Thermal Atmospheric Pressure Transitional (Warm) Plasmas. Micro APG TORNADO Gliding Arc Moderate Pressure MW. NonNon--Thermal

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Transitional (Warm) Thermal Transitional (Warm) Atmospheric Pressure Plasmas. GLIDING ARC in Flat Geometry. Electron Temperature ~ 1 - 1.5 eV. on ...

Non-Thermal Atmospheric Pressure Plasmas: Applications

An atmospheric-pressure facing-DBD argon plasma was used to effectively modify the surface properties of PVA/Cs composite films. This method was found to be viable and advantageous for enhancement of the wettability and antibacterial and mechanical properties of the films, in comparison with those without plasma treatment.

Enhancement of antibacterial and wettability performances ...

Non-thermal atmospheric-pressure plasma. Reactive oxygen and nitrogen species (RONS) Plasma activated liquid (PAL) 1. Introduction. Norfloxacin belongs to synthetic quinolones used in the treatment of infectious diseases of mankind, while quinolones including norfloxacin, ciprofloxacin and trimethoprim may enter into natural environment via ...