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Characterization of a Laser-Assisted Pulsed Plasma Thruster

Plasma characterisation of an ATON-Hall thruster - Channel and plume investigation. ... Comparison between two kinds of Hall thrusters - SPT100 and ATON. P. Lasgorceix, ... Hall thruster ion beam characterization. David Manzella and ...

Hall-effect thruster - Wikipedia

as characterization of the electron energy spectrum would greatly contribute to the understanding of Hall thruster sheath physics, as well as provide validation and/or allow refinement of existing sheath models. 7-10. As a preparatory study, plasma properties and electron energy distribution functions (EEDFs) were measured

Experimental and theoretical characterization of a Hall ...

[image-69]Scott Hall University of Michigan. Proposed here is a full performance characterization of the X3 Nested-channel Hall Thruster (NHT), a 100-kW class thruster developed jointly by the Plasmadynamics and Electric Propulsion Laboratory (PEPL) at the University of Michigan, NASA, and the Air Force Office of Scientific Research.

Low-Power Operation and Plasma Characterization of a ...

Despite the considerable flight heritage of the Hall thruster, the interaction of its plume with the spacecraft remains an important integration issue. Because in-flight data fully characterizing the plume in the space environment are currently unavailable, laboratory measurements are often used to understand plasma expansion and thereby minimize adverse plume-spacecraft interactions.

Experimental and Theoretical Characterization of a Hall ...

The far-field plasma characterization in a 600W Hall thruster plume by laser-induced fluorescence Xingyue DUAN (1), Xiong YANG (1), Mousen CHENG (1), Ning GUO (2), Xiaokang LI (1), Moge WANG (1) and Dawei GUO (1) 1College of Aerospace Science and Engineering, National University of Defense Technology, Changsha

Plasma characterisation of an ATON-Hall thruster - Channel ...

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Plasma Characterization Of Hall Thruster

Plasma Oscillation Characterization of NASA's HERMeS Hall Thruster via High Speed Imaging Wensheng Huang*, Hani Kamhawi, and Thomas W. Haag National Aeronautics and Space Administration Glenn Research Center, Cleveland, OH, 44135, USA The performance and facility effect characterization tests of NASA's 12.5-kW Hall Effect

The far-field plasma characterization in a 600 W Hall ...

An assessment of a novel laser-electric hybrid propulsion system was conducted, in which a laser-induced plasma was induced through laser beam irradiation onto a target and accelerated by electrical means instead of the direct acceleration only by using a laser beam. A fundamental study of newly developed rectangular laser-assisted pulsed-plasma thruster (PPT) was conducted.

Plasma Oscillation Characterization of NASA's HERMeS Hall ...

Non-intrusive characterization of the singly ionized xenon velocity in Hall thruster plume using laser induced fluorescence (LIF) is critical for constructing a complete picture of plume plasma, deeply understanding the ion dynamics in the plume, and providing validation data for numerical simulation.

Plasma Characterization of Hall Thruster with Active and ...

CHARACTERIZATION OF THE INTERNAL PLASMA STRUCTURE OF A 5 KW HALL THRUSTER James M. Haas 1 and Alec D. Gallimore 2 Plasmadynamics and Electric Propulsion Laboratory Department of Aerospace Engineering The University of Michigan College of Engineering Ann Arbor, MI 48109 USA 1 Ph.D. Candidate, Aerospace Engineering.

(PDF) Characterization of plasma in a Hall thruster ...

In a Hall thruster, the attractive negative charge is provided by an electron plasma at the open end of the thruster instead of a grid. A radial magnetic field of about 100–300 G (0.01–0.03 T) is used to confine the electrons, where the combination of the radial magnetic field and axial electric field cause the electrons to drift in azimuth thus forming the Hall current from which the ...

Characterization of a 100-kW Three Channel Nested Hall ...

Experimental and Theoretical Characterization of a Hall Thruster Plume by Yassir Azziz S.B., Aeronautics and Astronautics, Massachusetts Institute of Technology, 2001 ... of a Hall thruster from laboratory measurements and characterizes the plasma properties of the in-orbit plume.

CHARACTERIZATION OF THE INTERNAL PLASMA STRUCTURE OF A 5 ...

Low-Power Operation and Plasma Characterization of a Qualification Model SPT -140 Hall Thruster for NASA Science Missions Charles E. Garner¹, Benjamin A. Jorns², Steven van Derventer,³ and Richard R. Hofer⁴ Jet Propulsion laboratory, California Institute of Technology, Pasadena, CA 91109 Ryan Rickard⁵, Raymond Liang⁶ and Jorge Delgado⁷

The far-field plasma characterization in a 600 W Hall ...

Conventional annular Hall thrusters become inefficient when scaled to low power. Their lifetime decreases significantly due to the channel wall erosion. Cylindrical Hall thrusters that have lower surface-to-volume ratio and, thus, seem to be more promising for scaling down, exhibit performance comparable with conventional annular Hall thrusters of the similar size [1,2]. Plasma potential, ion ...

Near-Wall Plasma Characterization of a 6-kW Hall Thruster

Plasma Characterization of Hall Thruster with Active and Passive Segmented Electrodes Y. Raitses, D. Staack and N. J. Fisch Princeton Plasma Physics Laboratory, Princeton, NJ 08540 Abstract voltage to the positive side electrode, the possibility of a two Non-emissive electrodes and ceramic spacers placed along the Hall thruster channel are shown

Plasma Oscillation Characterization of NASA's HERMeS Hall ...

Plasma potentials and electron temperatures were deduced from emissive and cold floating probe measurements in a 2 kW Hall thruster, operated in the discharge voltage range of 200–400 V.

The far-field plasma characterization in a 600 W Hall ...

Hall Thruster Discharge Chamber Plasma Characterization Using a High-Speed Axial Reciprocating Electrostatic Probe James M. Haas, Richard R. Hofer, and Alec D. Gallimore Plasmadynamics and Electric Propulsion Laboratory University of Michigan Ann Arbor, MI 48109 35th AIAA/ASME/SAE/ASEE Joint Propulsion

Hall Thruster discharge chamber plasma characterization ...

Performance characterization of a low-power magnetically shielded Hall thruster with an internally-mounted hollow cathode 21 October 2019 | Plasma Sources Science and Technology, Vol. 28, No. 10 Evidence of Counter-Streaming Ions near the Inner Pole of the HERMeS Hall Thruster

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