Material Technology Cathodes, Gimbals

HS6

15.15
A865
Comparisons between Particle Simulation using IAT Growth Model and Plume Measurements of LaB6 Hollow Cathode
K. Kubota

15.30
A874
Fluid model of a Hollow Cathode discharge
X. Chen

15.45
A153
Development of Low-Voltage-Driven Propellantless Cathodes with High-Current Density Based on Graphene-Oxide-Semiconductor Structure
R. Furuya

16.00
A214
Radio Frequency Microdischarge Neutralizer
F. Filleul

16.15 ×

16.30 ×

16.45 ×

17.00 ×

Field Emission / Colloid Thrusters

SR5

15.15
A317
Uncertainty Quantification of Electrospray Thruster Array Lifetime
B. Jorns

15.30
A526
Colloid Thruster Plume Simulations Using a Particle-Particle Model
J. Wang

15.45
A530
Effect of Aprotic + Protic Mixtures on Electrospray Droplet Fragmentation
D. Levin

16.00
A830
Development of an Electrospray Source Model for Kinetic Plume Modeling
E. Petro

16.15
A565
Numerical simulation of electrospray thruster extraction for highly conductive propellants
H. Huh

16.30
A559
Study on Performance of Ionic Liquid Electrospray Thruster in Atmosphere and Vacuum Environment
Y. Guo

16.45
A788
High-Speed Transient Characterization of the Busek BET-300-P Electrospray Thruster
D. Courtney

17.00 ×

Hall Thrusters 1

SR6

15.15
A660
I2HET: Development of an Iodine-Fed Hall Effect Thruster
M. M. Saravia

15.30
A838
Simulation of an Adaptable Hall Thruster
N. Proulx

15.45
A902
Performance, Plume, Stability, and Wear Characterization of Three Alternate Magnetic Field Topologies in the Hall Effect Rocket with Magnetic Shielding
H. Kamhawi

16.00
A637
Characterisation and Performance Comparison of a Low-Power Hall-Effect Thruster and an Advanced Cusp Field Thruster with Multiple Noble Gases
M. Vaupel

16.15
A752
Preliminary Evaluation of Anode-Layer-Type Hall Thruster Performance Using Pulsating Boost Chopper Circuit
K. Nagamine

16.30
A563
Impact on Performance and Erosion in Hall Thruster using Argon and Xenon propellant
S. Yokota
K. Shimamura

16.45 ×

17.00 ×

Hall Thrusters 2

SR2

15.15
A648
Multiscale Hybrid Modeling of Unconventional Hall Thrusters
M. Laterza

15.30
A281
Plasma Simulations for the Assessment of Pole Erosion in the Magnetically Shielded Miniature Hall Thruster (MaSMi)
A. Lopez Ortega

15.45
A364
Particle-In-cell / fluid simulations of a Hall effect thruster accounting for plasma wall interactions
W. Villafana

16.00
A478
The Sputtering Mechanism of Keeper Electrode in Hall Thruster
J. Chen

16.15 ×

16.30 ×

16.45 ×

17.00 ×

Session End → Gala Dinner beginning 18:30

Ion Thrusters

HS5

15.15
A680
Surface Modification of Pyrolytic-Graphite Grids for an Ion thruster
Y. Matsunaga

15.30
A722
Uncertainty Quantification of Modeled Electron Backstreaming Failure for the NEXT Ion Thruster
J. Yim

15.45
A907
Modeling Ion Optics Erosion in the NEXT Ion Thruster Using the CEX2D and CEX3D Codes
J. Polk

16.00 ×

16.15 ×

16.30 ×

16.45 ×

17.00 ×

Resistojets/ Arcjets

SR4

15.15
A837
Numerical Rebuilding of Very Low Power Arcjet Thruster VELARC in Test Facilities at IRS and ESA-ESTEC
P. P. Upadhyay

15.30
A562
A Chemically Augmented Arcjet Thruster with Exotic Propellants
M. Tsuchiya

15.45
A703
Effect of adding water to propellant of a DME arcjet thruster
T. Tachibana

16.00 ×

16.15 ×

16.30 ×

16.45 ×

17.00 ×

Innovative Concepts

HS3

15.15
A646
Operation and Performance of a Fully-Integrated ion Electrospray Propulsion System
B. Kristinsson

15.30
A742
Direct Inertial Electrostatic Confinement Propulsion at Low Power Levels
M. Winter

15.45
A761
Experimental demonstration of thrust vectoring magnetic nozzle with multi-axis thrust measurement system
M. Edamoto

16.00 ×

16.15 ×

16.30 ×

16.45 ×

17.00 ×

Thruster Concepts

HS2

15.15
A537
An Experimental Study of Thrust Dependence on Magnetic Field in an Electrodeless Inductive Plasma Accelerator
A. Tatsuno

15.30
A596
Development and Characterization of the Helicon Plasma Thruster Prototype HPT-03
J. Navarro-Cavallé

15.45
A647
Optimization of electrothermal microwave plasma thruster for nanosatellites
S. Ivanov

16.00
A855
Performance improvement of a magnetic nozzle helicon plasma thruster
K. Takahashi

16.15
A867
Cubesat Test Platform for miniaturized electric propulsion system verification campaign
F. Stesina

16.30
A815
Enabling High-Energy Missions with Nanosatellites by Using Ablative Pulsed Plasma Thrusters
P. Gessini

16.45
A920
The operation of a low-power cylindrical Hall thruster with zinc as the propellant
C. Ryan

17.00
A746
On the Performance of Arcjet Thrusters using Numerical Modeling: A case study of Hydrogen as a propellant
D. Akhare