

Vernon Chaplin

List of Publications by Year in descending order

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Version: 2024-02-01

16
papers

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1478505

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1199594

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21
docs citations

21
times ranked

155
citing authors

#	ARTICLE	IF	CITATIONS
1	Laser-induced fluorescence measurements of acceleration zone scaling in the 12.5 kW HERMeS Hall thruster. <i>Journal of Applied Physics</i> , 2018, 124, .	2.5	33
2	Time-resolved ion velocity measurements in a high-power Hall thruster using laser-induced fluorescence with transfer function averaging. <i>Applied Physics Letters</i> , 2020, 116, .	3.3	26
3	Particle-in-cell simulations of Hall thruster acceleration and near plume regions. <i>Physics of Plasmas</i> , 2018, 25, 123504.	1.9	18
4	Multipactor Breakdown Threshold Reduction Due to Magnetic Confinement in Parallel Fields. <i>IEEE Transactions on Plasma Science</i> , 2017, 45, 1726-1730.	1.3	12
5	Anomalous Ion Heating and Pole Erosion in the 12.5-kW Hall Effect Rocket with Magnetic Shielding (HERMeS). , 2020, , .		12
6	Fast Ignitron Trigger Circuit Using Insulated Gate Bipolar Transistors. <i>IEEE Transactions on Plasma Science</i> , 2013, 41, 975-979.	1.3	7
7	Demonstration of 13,011-h of operation of a proto-flight compact heaterless lanthanum hexaboride hollow cathode. <i>Acta Astronautica</i> , 2022, 197, 53-59.	3.2	7
8	Center conductor diagnostic for multipactor detection in inaccessible geometries. <i>Review of Scientific Instruments</i> , 2017, 88, 014706.	1.3	6
9	One-dimensional time-dependent fluid model of a very high density low-pressure inductively coupled plasma. <i>Journal of Applied Physics</i> , 2015, 118, .	2.5	5
10	Battery-powered pulsed high density inductively coupled plasma source for pre-ionization in laboratory astrophysics experiments. <i>Review of Scientific Instruments</i> , 2015, 86, 073506.	1.3	4
11	Insights from Collisional-Radiative Models of Neutral and Singly-Ionized Xenon in Hall Thrusters. , 2021, , .		3
12	Impact of low-frequency oscillations on ion energy in a high-power magnetically shielded Hall thruster. <i>Journal of Applied Physics</i> , 2022, 131, 033301.	2.5	3
13	Insights from Collisional-Radiative Models of Neutral and Singly Ionized Xenon in Hall Thrusters. <i>Journal of Propulsion and Power</i> , 2022, 38, 866-879.	2.2	3
14	Emission and afterglow properties of an expanding RF plasma with nonuniform neutral gas density. <i>Physics of Plasmas</i> , 2016, 23, 083506.	1.9	2
15	Experimental Characterization of Wave-Induced Azimuthal Ion Velocities in a Hollow Cathode Plume. , 2022, , .		2
16	10.1063/5.0007161.2. , 2020, , .		0