Liqiu Wei

List of Publications by Year
in descending order

64 papers	619 citations	687363 13 h-index	794594 19 g-index
64 all docs	64 docs citations	64 times ranked	183 citing authors

#	Article	IF	Citations
1	The characteristics of ion wind thruster based on dielectric barrier discharge in near space. Vacuum, 2022, 195, 110689.	3.5	11
2	Influence of pulse frequency on discharge characteristics of micro-cathode arc thruster. Vacuum, 2022, 196, 110748.	3.5	8
3	A newly designed ignition method for miniature radio frequency ion thruster. Review of Scientific Instruments, 2022, 93, 033506.	1.3	1
4	Effects of the peak magnetic field location on discharge performance of a 100-W Hall thruster with large gradient magnetic field. Vacuum, 2022, 199, 110965.	3.5	10
5	Effect of dynamic permittivity in low-pressure environment on performance of surface dielectric barrier discharge ion wind thruster. Vacuum, 2022, 201, 111111.	3.5	5
6	Newly designed ignition circuit to improve the ignition reliability of Hall thruster. AIP Advances, 2022, 12, 055112.	1.3	0
7	Effects of Magnetic Field Configuration on Ionic Wind Characteristics. IEEE Transactions on Plasma Science, 2021, 49, 1448-1453.	1.3	4
8	Simulation of Pole Erosion in Magnetically Shielded and Unshielded Hall Thrusters. IEEE Transactions on Plasma Science, 2021, 49, 1351-1356.	1.3	5
9	Low-frequency-oscillation characteristics of ionization distribution in Hall thruster channels. Vacuum, 2021, 190, 110320.	3.5	5
10	Analysis on dielectric loss characteristics of polyvinylidene fluoride and its composites. Journal of Materials Science: Materials in Electronics, 2021, 32, 26268-26290.	2.2	2
11	Multiple ionization characteristics of hall thruster with large heightâ€"radius ratio and their effects. Physics of Plasmas, 2021, 28, .	1.9	5
12	Effects of the peak magnetic field position on Hall thruster discharge characteristics. Advances in Space Research, 2020, 66, 2024-2034.	2.6	8
13	Recent progress in research on micro-cathode arc thrusters. European Physical Journal D, 2020, 74, 1.	1.3	4
14	Numerical simulation of the effect of backpressure on the discharge characteristics of a Hall effect thruster. European Physical Journal D, 2020, 74, 1.	1.3	5
15	Study on the influence of the discharge voltage on the ignition process of Hall thrusters. Plasma Science and Technology, 2020, 22, 094004.	1.5	4
16	Research progress on the ignition reliability of Hall thruster in HIT. , 2019, , .		0
17	Simulation of plasma dynamics during discharge ignition in Hall thruster. European Physical Journal D, 2019, 73, 1.	1.3	8
18	Simulation research on magnetic pole erosion of Hall thrusters. Physics of Plasmas, 2019, 26, .	1.9	13

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19	Extending service life of hall thrusters: recent progress and future challenges. Reviews of Modern Plasma Physics, 2019, 3, 1.	4.1	7
20	Measurement method for plume divergence angle of Hall thrusters. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2019, 37, 012902.	1.2	3
21	Effect of azimuthal diversion rail location on the performance of Hall thrusters. Vacuum, 2019, 159, 299-305.	3.5	7
22	High-Speed Camera Imaging in the Discharge Channel During a Hall Thruster Ignition. IEEE Transactions on Plasma Science, 2018, 46, 1058-1061.	1.3	10
23	Overview of Hall Electric Propulsion in China. IEEE Transactions on Plasma Science, 2018, 46, 263-282.	1.3	8
24	Effect of matching between the magnetic field and channel length on the performance of low sputtering Hall thrusters. Advances in Space Research, 2018, 61, 837-843.	2.6	12
25	Effect of magnetic field directionality on discharging characteristics of Hall effect thruster with azimuthal diversion rail. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2018, 36, 062801.	1.2	1
26	Effects of magnetic field intensity on ionic wind characteristics. Journal of Electrostatics, 2018, 96, 99-103.	1.9	17
27	Comparative Study of Annularâ€"Cylindrical Combined Channel With Annular Channel Hall Thruster. IEEE Transactions on Plasma Science, 2018, 46, 4051-4059.	1.3	5
28	An experimental setup for hollow cathode independent life test simulating Hall thruster discharge current oscillations. Advances in Space Research, 2018, 62, 2551-2555.	2.6	3
29	Effect of relative position between cathode and magnetic separatrix on the discharge characteristic of Hall thrusters. Vacuum, 2018, 154, 167-173.	3.5	13
30	A 200-W permanent magnet Hall thruster discharge with graphite channel wall. Physics Letters, Section A: General, Atomic and Solid State Physics, 2018, 382, 3079-3082.	2.1	11
31	Effect of azimuthal diversion rail on an ATON-type Hall thruster. Journal Physics D: Applied Physics, 2017, 50, 095202.	2.8	9
32	Effect of oblique channel on discharge characteristics of 200-W Hall thruster. Physics of Plasmas, 2017, 24, .	1.9	26
33	Visual evidence of suppressing the ion and electron energy loss on the wall in Hall thrusters. Japanese Journal of Applied Physics, 2017, 56, 038001.	1.5	12
34	Experimental test of 200 W Hall thruster with titanium wall. Japanese Journal of Applied Physics, 2017, 56, 050312.	1.5	13
35	A type of cylindrical Hall thruster with a magnetically insulated anode. Journal Physics D: Applied Physics, 2017, 50, 145203.	2.8	10
36	Study of lowâ€frequency oscillations in a doubleâ€stage Hall thruster. Contributions To Plasma Physics, 2017, 57, 99-105.	1.1	2

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37	Effect of discharge parameters on pulse current during hall thruster start-up. Vacuum, 2017, 136, 77-81.	3.5	12
38	Simulation of double stage hall thruster with double-peaked magnetic field. European Physical Journal D, 2017, 71, 1.	1.3	7
39	Application of hollow anodes in a Hall thruster with double-peak magnetic fields. Journal Physics D: Applied Physics, 2017, 50, 335201.	2.8	17
40	Stabilizing low-frequency oscillation with two-stage filter in Hall thrusters. Review of Scientific Instruments, 2017, 88, 073502.	1.3	6
41	A 200ÂW Hall thruster with hollow indented anode. Acta Astronautica, 2017, 139, 521-527.	3.2	22
42	Effect of vortex inlet mode on low-power cylindrical Hall thruster. Physics of Plasmas, 2017, 24, .	1.9	11
43	Performance characteristics of No-Wall-Losses Hall Thruster. European Physical Journal: Special Topics, 2017, 226, 2945-2953.	2.6	16
44	Influence of hollow anode position on the performance of a hall-effect thruster with double-peak magnetic field. Vacuum, 2017, 143, 251-261.	3.5	32
45	Coupling intensity between discharge and magnetic circuit in Hall thrusters. European Physical Journal D, 2017, 71, 1.	1.3	1
46	Hysteresis in stabilization of methane diffusion flames with plasmas. Fuel, 2016, 179, 362-367.	6.4	4
47	Effect of double-stage discharge on the performance of a multi-mode Hall thruster. Vacuum, 2016, 131, 312-318.	3.5	12
48	Experimental Study of the Effects of Magnetic Field Intensity on Trichel Pulses. IEEE Transactions on Plasma Science, 2016, 44, 2644-2647.	1.3	6
49	Computer simulations of Hall thrusters without wall losses designed using two permanent magnetic rings. Journal Physics D: Applied Physics, 2016, 49, 465001.	2.8	35
50	Mode transition induced by the magnetic field gradient in Hall thrusters. Journal Physics D: Applied Physics, 2016, 49, 375203.	2.8	10
51	Study on the peak current of power supply during a Hall thruster start-up. Vacuum, 2016, 123, 126-130.	3.5	15
52	Modulating action of low frequency oscillations on high frequency instabilities in Hall thrusters. Journal of Applied Physics, 2015, 117, 053301.	2.5	4
53	Note: An approach to measurement of low frequency oscillation amplitude of discharge current of in-orbit Hall thruster. Review of Scientific Instruments, 2014, 85, 066113.	1.3	2
54	Characterizing low-frequency oscillation of Hall thrusters by dielectric wall temperature variation. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2014, 32, 030604.	2.1	3

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55	Hall thruster plume divergence angle assessment method based on image processing. Measurement: Journal of the International Measurement Confederation, 2014, 50, 74-77.	5.0	5
56	Effects of operating parameters on ionization distribution in Hall thrusters. Applied Physics Letters, 2013, 102, .	3.3	8
57	Effect of ionization distribution on the low frequency oscillations mode in Hall thrusters. Physics of Plasmas, 2012, 19, .	1.9	22
58	Study on breathing mode oscillation suppression of self-excited Hall thrusters. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2012, 30, .	2.1	11
59	Experimental study on the role of a resistor in the filter of Hall thrusters. Physics of Plasmas, 2011, 18, 063508.	1.9	12
60	Effects of magnetic field strength on the low frequency oscillation in Hall thrusters. Physics of Plasmas, 2011, 18, 013507.	1.9	12
61	On the frequency characteristic of inductor in the filter of Hall thrusters. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2010, 28, L9-L13.	2.1	7
62	Characterization of coupling oscillation in Hall thrusters. Plasma Sources Science and Technology, 2009, 18, 045020.	3.1	14
63	Stabilizing of low frequency oscillation in Hall thrusters. Physics of Plasmas, 2008, 15, 113503.	1.9	32
64	Experimental study on low frequency oscillation in a plume of Hall thrusters. Plasma Sources Science and Technology, 2008, 17, 035022.	3.1	14