

Rei Kawashima

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Aluminum particle production on alumina rod surface by continuous-wave laser ablation. <i>Materials Chemistry and Physics</i> , 2022, 278, 125557.	4.0	2
2	Plasma structure and electron cross-field transport induced by azimuthal manipulation of the radial magnetic field in a Hall thruster Eâ€™%A–â€™%B discharge. <i>Journal of Applied Physics</i> , 2022, 131, .	2.5	5
3	Wall Ion Loss Reduction by Acceleration Zone Shifting in Anode-Layer Hall Thruster. <i>Journal of Propulsion and Power</i> , 2022, 38, 489-493.	2.2	1
4	Incident angle dependence of reflected particles in low-energy xenon-ion impacts on metal surfaces. <i>Computational Materials Science</i> , 2021, 186, 109989.	3.0	4
5	Characterization of acceleration zone shifting in an anode-layer-type Hall thruster RAIJIN66. <i>Vacuum</i> , 2021, 186, 110040.	3.5	8
6	10.1063/5.0045984.1. , 2021, , .		0
7	Two-dimensional hybrid model of gradient drift instability and enhanced electron transport in a Hall thruster. <i>Physics of Plasmas</i> , 2021, 28, .	1.9	6
8	Evolution of electron cross-field transport induced by an equilibrium azimuthal electric field in an Eâ€™%A–â€™%B Hall thruster discharge under an azimuthally inhomogeneous neutral supply. <i>Physics of Plasmas</i> , 2021, 28, 102510.	1.9	2
9	Discharge characteristics and increased electron current during azimuthally nonuniform propellant supply in an anode layer Hall thruster. <i>Journal of Applied Physics</i> , 2020, 128, .	2.5	5
10	Alumina reduction by laser ablation using a continuous-wave CO2 laser toward lunar resource utilization. <i>Vacuum</i> , 2019, 167, 495-499.	3.5	7
11	Plasma formation and cross-field electron transport induced by azimuthal neutral inhomogeneity in an anode layer Hall thruster. <i>Physics of Plasmas</i> , 2019, 26, .	1.9	14
12	Interplanetary Magnetic Attitude Control Based on an IMF Kalman filter in Small Spacecraft. <i>IEEE Transactions on Aerospace and Electronic Systems</i> , 2019, 55, 2674-2686.	4.7	5
13	Inflow angular dependence of the capture coefficient in cryopumps. <i>Vacuum</i> , 2019, 160, 102-108.	3.5	1
14	Hyperbolic System Approach for Magnetized Electron Fluids in ExB Discharge Plasmas. , 2018, , .		0
15	Weighted Nonlinear Schemes for Magnetized Electron Fluid in Quasi-neutral plasma. , 2018, , .		0
16	Numerical analysis of azimuthal rotating spokes in a crossed-field discharge plasma. <i>Plasma Sources Science and Technology</i> , 2018, 27, 035010.	3.1	41
17	Alumina Reduction by Laser Ablation Using a Continuous-Wave CO2 Laser Toward Aluminum Energy Cycle. , 2018, , .		0
18	Effect of Density Inhomogeneity in Azimuth on Discharge Oscillation Suppression and Electron Diffusion in Hall Thrusters. , 2018, , .		0

#	ARTICLE	IF	CITATIONS
19	Inflow Angular Dependency on Cryopump and Beam Target in Hall Thruster Test Facility. , 2018, , .		0
20	Particle Simulation of Plasma Drag Force Generation in the Magnetic Plasma Deorbit. Journal of Spacecraft and Rockets, 2018, 55, 1074-1082.	1.9	9
21	High-order upwind and non-oscillatory approach for steady state diffusion, advectionâ€“diffusion and application to magnetized electrons. Journal of Computational Physics, 2018, 374, 1120-1151.	3.8	8
22	Hall Thruster Development for Japanese Space Propulsion Programs. Transactions of the Japan Society for Aeronautical and Space Sciences, 2017, 60, 320-326.	0.7	21
23	A Unified Model for Axial-Radial and Axial-Azimuthal Hall Thruster Simulations. , 2016, , .		3
24	A flux-splitting method for hyperbolic-equation system of magnetized electron fluids in quasi-neutral plasmas. Journal of Computational Physics, 2016, 310, 202-212.	3.8	11
25	A hyperbolic-equation system approach for magnetized electron fluids in quasi-neutral plasmas. Journal of Computational Physics, 2015, 284, 59-69.	3.8	23
26	Magnetic plasma deorbit system for nano- and micro-satellites using magnetic torquer interference with space plasma in low Earth orbit. Acta Astronautica, 2015, 112, 192-199.	3.2	20
27	Operating parameters and oscillation characteristics of an anode-layer Hall thruster with argon propellant. Vacuum, 2014, 110, 159-164.	3.5	14
28	Modeling of Electron Fluids in Hall Thrusters Using a Hyperbolic System. , 2014, , .		3
29	Effect of thruster scaling on pre-sheath and ion-loss region in Hall thrusters. , 2012, , .		1