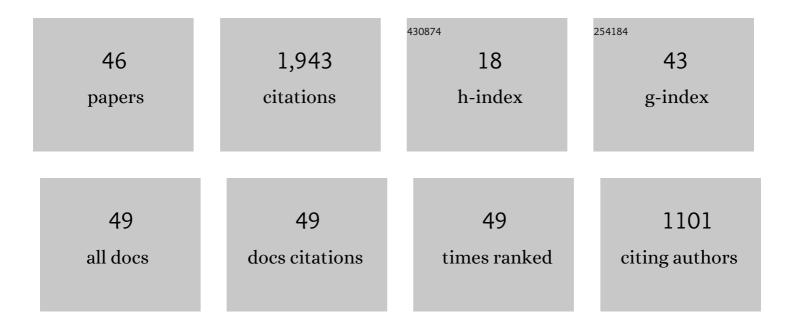
## Ryudo Tsukizaki

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Samples returned from the asteroid Ryugu are similar to Ivuna-type carbonaceous meteorites. Science, 2023, 379, .	12.6	97
2	Plasma parameters measured inside and outside a microwave-discharge-based plasma cathode using laser-induced fluorescence spectroscopy. Journal of Applied Physics, 2022, 131, .	2.5	7
3	Importance of stepwise ionization from the metastable state in electron cyclotron resonance ion thrusters. Journal of Electric Propulsion, 2022, 1, 1.	2.0	6
4	Pebbles and sand on asteroid (162173) Ryugu: In situ observation and particles returned to Earth. Science, 2022, 375, 1011-1016.	12.6	78
5	Effect of ion beam extraction on neutral density distribution inside a gridded microwave discharge ion thruster. Vacuum, 2022, 200, 110962.	3.5	2
6	Preliminary analysis of the Hayabusa2 samples returned from C-type asteroid Ryugu. Nature Astronomy, 2022, 6, 214-220.	10.1	136
7	Sensitivity degradation of optical navigation camera and attempts for dust removal. , 2022, , 415-431.		1
8	Collisional history of Ryugu's parent body from bright surface boulders. Nature Astronomy, 2021, 5, 39-45.	10.1	42
9	Thermally altered subsurface material of asteroid (162173) Ryugu. Nature Astronomy, 2021, 5, 246-250.	10.1	47
10	Performance of a Miniature Hall Thruster and an In-house PPU. Transactions of the Japan Society for Aeronautical and Space Sciences, 2021, 64, 189-192.	0.7	2
11	Design and testing of additively manufactured high-efficiency resistojet on hydrogen propellant. Acta Astronautica, 2021, 181, 14-27.	3.2	6
12	Anomalously porous boulders on (162173) Ryugu as primordial materials from its parent body. Nature Astronomy, 2021, 5, 766-774.	10.1	30
13	Plasma hysteresis caused by high-voltage breakdown in gridded microwave discharge ion thruster μ10. Acta Astronautica, 2021, 185, 179-187.	3.2	10
14	Neutral atom density measurements of xenon plasma inside a μ10 microwave ion thruster using two-photon laser-induced fluorescence spectroscopy. Vacuum, 2021, 190, 110269.	3.5	4
15	Investigation of plasma mode transition and hysteresis in electron cyclotron resonance ion thrusters. Plasma Sources Science and Technology, 2021, 30, 095023.	3.1	4
16	Additive-manufactured single-piece thin multi-layer tungsten heater for an electrothermal thruster. Review of Scientific Instruments, 2021, 92, 114501.	1.3	2
17	In-flight operation of the Hayabusa2 ion engine system on its way to rendezvous with asteroid 162173 Ryugu. Acta Astronautica, 2020, 166, 69-77.	3.2	21
18	Effect of discharge chamber geometry on ion loss in microwave discharge ion thruster. Acta Astronautica, 2020, 176, 77-88.	3.2	8

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#	Article	IF	CITATIONS
19	Hayabusa2's station-keeping operation in the proximity of the asteroid Ryugu. Astrodynamics, 2020, 4, 349-375.	2.4	19
20	Investigation and experimental simulation of performance deterioration of microwave discharge ion thruster μ10 during space operation. Acta Astronautica, 2020, 174, 367-376.	3.2	13
21	Sample collection from asteroid (162173) Ryugu by Hayabusa2: Implications for surface evolution. Science, 2020, 368, 654-659.	12.6	158
22	Characterization of a Capillary Flow Controller for Electric Propulsion. Journal of Propulsion and Power, 2020, 36, 586-592.	2.2	3
23	Highly porous nature of a primitive asteroid revealed by thermal imaging. Nature, 2020, 579, 518-522.	27.8	100
24	An artificial impact on the asteroid (162173) Ryugu formed a crater in the gravity-dominated regime. Science, 2020, 368, 67-71.	12.6	183
25	Application of a microwave cathode to a 200-W Hall thruster with comparison to a hollow cathode. Acta Astronautica, 2020, 176, 413-423.	3.2	8
26	Characteristics of Plasma and Gas in Microwave Discharge Ion Thruster μ10 Using Kinetic Particle Simulation. Transactions of the Japan Society for Aeronautical and Space Sciences Aerospace Technology Japan, 2020, 18, 57-63.	0.2	3
27	Application of Two-photon Laser-induced Fluorescence Spectroscopy to Microwave Cathode. Transactions of the Japan Society for Aeronautical and Space Sciences, 2020, 63, 281-283.	0.7	1
28	Numerical investigation of plasma properties for the microwave discharge ion thruster μ10 using PIC-MCC simulation. Physics of Plasmas, 2019, 26, 073510.	1.9	21
29	Pulse-width variation of power supply for evaluating quasi-steady state of magneto-plasma-dynamic thruster operation. Review of Scientific Instruments, 2019, 90, .	1.3	1
30	Effect of nozzle magnetic field on microwave discharge cathode performance. Acta Astronautica, 2019, 165, 25-31.	3.2	11
31	Neutral ground state particle density measurement of xenon plasma in microwave cathode by two-photon laser-induced fluorescence spectroscopy. Vacuum, 2019, 168, 108846.	3.5	8
32	Hayabusa2 arrives at the carbonaceous asteroid 162173 Ryugu—A spinning top–shaped rubble pile. Science, 2019, 364, 268-272.	12.6	410
33	The geomorphology, color, and thermal properties of Ryugu: Implications for parent-body processes. Science, 2019, 364, 252.	12.6	313
34	Two-photon absorption laser induced fluorescence with various laser intensities for density measurement of ground state neutral xenon. Acta Astronautica, 2019, 161, 382-388.	3.2	12
35	Performance improvement of the $\hat{1}$ / $\!\!\!/410$ microwave discharge ion thruster by expansion of the plasma production volume. Acta Astronautica, 2019, 157, 425-434.	3.2	38
36	Azimuthal velocity measurement in the ion beam of a gridded ion thruster using laser-induced fluorescence spectroscopy. Plasma Sources Science and Technology, 2018, 27, 015013.	3.1	8

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#	Article	IF	CITATIONS
37	Calibration methods for the simultaneous measurement of the impulse, mass loss, and average thrust of a pulsed plasma thruster. Review of Scientific Instruments, 2018, 89, 095103.	1.3	2
38	Azimuthal ion drift of a gridded ion thruster. Plasma Sources Science and Technology, 2018, 27, 105006.	3.1	7
39	Microwave power absorption to high energy electrons in the ECR ion thruster. Plasma Sources Science and Technology, 2018, 27, 095015.	3.1	18
40	Effects of Segmented Chamber Walls in a Microwave Ion Thruster on Thrust Performance. Journal of the Japan Society for Aeronautical and Space Sciences, 2017, 65, 17-20.	0.1	2
41	Development and Testing of the Hayabusa2 Ion Engine System. Transactions of the Japan Society for Aeronautical and Space Sciences Aerospace Technology Japan, 2016, 14, Pb_131-Pb_140.	0.2	25
42	Thrust Enhancement of a Microwave Ion Thruster. Journal of Propulsion and Power, 2014, 30, 1383-1389.	2.2	31
43	Electric field measurement in microwave discharge ion thruster with electro-optic probe. Review of Scientific Instruments, 2012, 83, 124702.	1.3	18
44	Measurement of axial neutral density profiles in a microwave discharge ion thruster by laser absorption spectroscopy with optical fiber probes. Review of Scientific Instruments, 2011, 82, 123103.	1.3	13
45	Improvement of the Thrust Force of the ECR Ion Thruster μ10. Transactions of the Japan Society for Aeronautical and Space Sciences Aerospace Technology Japan, 2010, 8, Pb_67-Pb_72.	0.2	7
46	Feasibility Study on Performance Enhancement Options for the ECR Ion Thruster µ10. Transactions of the Japan Society for Aeronautical and Space Sciences Space Technology Japan, 2009, 7, Pb_113-Pb_118.	0.2	4