

Shota Kikuchi

List of Publications by Year in descending order

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Version: 2024-02-01

34
papers

1,883
citations

430874

18
h-index

477307

29
g-index

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all docs

34
docs citations

34
times ranked

1059
citing authors

#	ARTICLE	IF	CITATIONS
1	Hayabusa2 arrives at the carbonaceous asteroid 162173 Ryugu—A spinning top—shaped rubble pile. <i>Science</i> , 2019, 364, 268-272.	12.6	410
2	The geomorphology, color, and thermal properties of Ryugu: Implications for parent-body processes. <i>Science</i> , 2019, 364, 252.	12.6	313
3	An artificial impact on the asteroid (162173) Ryugu formed a crater in the gravity-dominated regime. <i>Science</i> , 2020, 368, 67-71.	12.6	183
4	Sample collection from asteroid (162173) Ryugu by Hayabusa2: Implications for surface evolution. <i>Science</i> , 2020, 368, 654-659.	12.6	158
5	Preliminary analysis of the Hayabusa2 samples returned from C-type asteroid Ryugu. <i>Nature Astronomy</i> , 2022, 6, 214-220.	10.1	136
6	Highly porous nature of a primitive asteroid revealed by thermal imaging. <i>Nature</i> , 2020, 579, 518-522.	27.8	100
7	Samples returned from the asteroid Ryugu are similar to Ivuna-type carbonaceous meteorites. <i>Science</i> , 2023, 379, .	12.6	97
8	Pebbles and sand on asteroid (162173) Ryugu: In situ observation and particles returned to Earth. <i>Science</i> , 2022, 375, 1011-1016.	12.6	78
9	Thermophysical properties of the surface of asteroid 162173 Ryugu: Infrared observations and thermal inertia mapping. <i>Icarus</i> , 2020, 348, 113835.	2.5	48
10	Thermally altered subsurface material of asteroid (162173) Ryugu. <i>Nature Astronomy</i> , 2021, 5, 246-250.	10.1	47
11	Collisional history of Ryugu's parent body from bright surface boulders. <i>Nature Astronomy</i> , 2021, 5, 39-45.	10.1	42
12	Anomalously porous boulders on (162173) Ryugu as primordial materials from its parent body. <i>Nature Astronomy</i> , 2021, 5, 766-774.	10.1	30
13	Orbit-attitude coupled motion around small bodies: Sun-synchronous orbits with Sun-tracking attitude motion. <i>Acta Astronautica</i> , 2017, 140, 34-48.	3.2	29
14	The spatial distribution of impact craters on Ryugu. <i>Icarus</i> , 2020, 338, 113527.	2.5	25
15	Rendezvous to asteroid with highly uncertain ephemeris: Hayabusa2's Ryugu-approach operation result. <i>Astrodynamics</i> , 2020, 4, 137-147.	2.4	20
16	Design and Reconstruction of the Hayabusa2 Precision Landing on Ryugu. <i>Journal of Spacecraft and Rockets</i> , 2020, 57, 1033-1060.	1.9	20
17	Hayabusa2 extended mission: New voyage to rendezvous with a small asteroid rotating with a short period. <i>Advances in Space Research</i> , 2021, 68, 1533-1555.	2.6	20
18	Hayabusa2's station-keeping operation in the proximity of the asteroid Ryugu. <i>Astrodynamics</i> , 2020, 4, 349-375.	2.4	19

#	ARTICLE	IF	CITATIONS
19	The deep-space multi-object orbit determination system and its application to Hayabusa2's asteroid proximity operations. <i>Astrodynamics</i> , 2020, 4, 377-392.	2.4	19
20	GNC strategies and flight results of Hayabusa2 first touchdown operation. <i>Acta Astronautica</i> , 2020, 174, 131-147.	3.2	19
21	Hayabusa2 Landing Site Selection: Surface Topography of Ryugu and Touchdown Safety. <i>Space Science Reviews</i> , 2020, 216, 1.	8.1	17
22	Ballistic deployment of the Hayabusa2 artificial landmarks in the microgravity environment of Ryugu. <i>Icarus</i> , 2021, 358, 114220.	2.5	13
23	Stability Analysis of Coupled Orbit-Attitude Dynamics Around Asteroids Using Finite-Time Lyapunov Exponents. <i>Journal of Guidance, Control, and Dynamics</i> , 2019, 42, 1289-1305.	2.8	12
24	Hayabusa2 pinpoint touchdown near the artificial crater on Ryugu: Trajectory design and guidance performance. <i>Advances in Space Research</i> , 2021, 68, 3093-3140.	2.6	9
25	Asteroid de-spin and deflection strategy using a solar-sail spacecraft with reflectivity control devices. <i>Acta Astronautica</i> , 2019, 156, 375-386.	3.2	8
26	Site selection for the Hayabusa2 artificial cratering and subsurface material sampling on Ryugu. <i>Planetary and Space Science</i> , 2022, 219, 105519.	1.7	4
27	Alignment determination of the Hayabusa2 laser altimeter (LIDAR). <i>Earth, Planets and Space</i> , 2021, 73, .	2.5	3
28	Frozen Orbits Under Radiation Pressure and Zonal Gravity Perturbations. <i>Journal of Guidance, Control, and Dynamics</i> , 2021, 44, 1924-1946.	2.8	2
29	Three-axial shape distributions of pebbles, cobbles and boulders smaller than a few meters on asteroid Ryugu. <i>Icarus</i> , 2022, 381, 115007.	2.5	1
30	Extended mission of Hayabusa2. , 2022, , 557-571.		1
31	Shadow-Based Trajectory Estimation of a Deployable Payload. <i>Journal of Spacecraft and Rockets</i> , 0, , 1-11.	1.9	0
32	GNC design and results of Hayabusa2's initial remote sensing operations. , 2022, , 137-175.		0
33	Hayabusa2 radio science investigation. , 2022, , 387-399.		0
34	Landing site selection for the Hayabusa2 mission: Pre-arrival training and post-arrival analyses. , 2022, , 189-208.		0