

Fuyuto Terui

List of Publications by Year in descending order

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Version: 2024-02-01

47
papers

2,454
citations

361413

20
h-index

302126

39
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all docs

47
docs citations

47
times ranked

1218
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	The surface composition of asteroid 162173 Ryugu from Hayabusa2 near-infrared spectroscopy. <i>Science</i> , 2019, 364, 272-275.	12.6	262
4	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
5	Sample collection from asteroid (162173) Ryugu by Hayabusa2: Implications for surface evolution. <i>Science</i> , 2020, 368, 654-659.	12.6	158
6	Preliminary analysis of the Hayabusa2 samples returned from C-type asteroid Ryugu. <i>Nature Astronomy</i> , 2022, 6, 214-220.	10.1	136
7	Hayabusa2 mission status: Landing, roving and cratering on asteroid Ryugu. <i>Acta Astronautica</i> , 2020, 171, 42-54.	3.2	111
8	Highly porous nature of a primitive asteroid revealed by thermal imaging. <i>Nature</i> , 2020, 579, 518-522.	27.8	100
9	Samples returned from the asteroid Ryugu are similar to Ivuna-type carbonaceous meteorites. <i>Science</i> , 2023, 379, .	12.6	97
10	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
11	Development of the Laser Altimeter (LIDAR) for Hayabusa2. <i>Space Science Reviews</i> , 2017, 208, 33-47.	8.1	64
12	Thermophysical properties of the surface of asteroid 162173 Ryugu: Infrared observations and thermal inertia mapping. <i>Icarus</i> , 2020, 348, 113835.	2.5	48
13	Thermally altered subsurface material of asteroid (162173) Ryugu. <i>Nature Astronomy</i> , 2021, 5, 246-250.	10.1	47
14	Collisional history of Ryugu's parent body from bright surface boulders. <i>Nature Astronomy</i> , 2021, 5, 39-45.	10.1	42
15	Image-based autonomous navigation of Hayabusa2 using artificial landmarks: The design and brief in-flight results of the first landing on asteroid Ryugu. <i>Astrodynamics</i> , 2020, 4, 89-103.	2.4	34
16	Modeling and analysis of Hayabusa2 touchdown. <i>Astrodynamics</i> , 2020, 4, 119-135.	2.4	30
17	Anomalously porous boulders on (162173) Ryugu as primordial materials from its parent body. <i>Nature Astronomy</i> , 2021, 5, 766-774.	10.1	30
18	The spatial distribution of impact craters on Ryugu. <i>Icarus</i> , 2020, 338, 113527.	2.5	25

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19	Guidance, navigation, and control of Hayabusa2 touchdown operations. <i>Astrodynamics</i> , 2020, 4, 393-409.	2.4	25
20	Spectrally blue hydrated parent body of asteroid (162173) Ryugu. <i>Nature Communications</i> , 2021, 12, 5837.	12.8	23
21	Design and Reconstruction of the Hayabusa2 Precision Landing on Ryugu. <i>Journal of Spacecraft and Rockets</i> , 2020, 57, 1033-1060.	1.9	20
22	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
23	Hayabusa2's station-keeping operation in the proximity of the asteroid Ryugu. <i>Astrodynamics</i> , 2020, 4, 349-375.	2.4	19
24	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
25	Design and flight results of GNC systems in Hayabusa2 descent operations. <i>Astrodynamics</i> , 2020, 4, 105-117.	2.4	19
26	GNC strategies and flight results of Hayabusa2 first touchdown operation. <i>Acta Astronautica</i> , 2020, 174, 131-147.	3.2	19
27	Hayabusa2 Landing Site Selection: Surface Topography of Ryugu and Touchdown Safety. <i>Space Science Reviews</i> , 2020, 216, 1.	8.1	17
28	Improving Hayabusa2 trajectory by combining LIDAR data and a shape model. <i>Icarus</i> , 2020, 338, 113574.	2.5	16
29	Hayabusa2's kinetic impact experiment: Operational planning and results. <i>Acta Astronautica</i> , 2020, 175, 362-374.	3.2	14
30	Ballistic deployment of the Hayabusa2 artificial landmarks in the microgravity environment of Ryugu. <i>Icarus</i> , 2021, 358, 114220.	2.5	13
31	Dynamic precise orbit determination of Hayabusa2 using laser altimeter (LIDAR) and image tracking data sets. <i>Earth, Planets and Space</i> , 2020, 72, .	2.5	11
32	Hayabusa2's superior solar conjunction mission operations: planning and post-operation results. <i>Astrodynamics</i> , 2020, 4, 265-288.	2.4	10
33	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
34	Motion reconstruction of the small carry-on impactor aboard Hayabusa2. <i>Astrodynamics</i> , 2020, 4, 289-308.	2.4	7
35	Rotational effect as the possible cause of the east-west asymmetric crater rims on Ryugu observed by LIDAR data. <i>Icarus</i> , 2021, 354, 114073.	2.5	5
36	Ground-based low altitude hovering technique of Hayabusa2. <i>Astrodynamics</i> , 2020, 4, 331-347.	2.4	4

#	ARTICLE	IF	CITATIONS
37	Site selection for the Hayabusa2 artificial cratering and subsurface material sampling on Ryugu. Planetary and Space Science, 2022, 219, 105519.	1.7	4
38	Alignment determination of the Hayabusa2 laser altimeter (LIDAR). Earth, Planets and Space, 2021, 73, .	2.5	3
39	Mission objectives, planning, and achievements of Hayabusa2. , 2022, , 5-23.		3
40	Initial Achievements of Hayabusa2 in Asteroid Proximity Phase. Transactions of the Japan Society for Aeronautical and Space Sciences, 2020, 63, 115-123.	0.7	2
41	Hayabusa2 spacecraft dynamics and operational design of final descent and touchdown in sampling mission. , 2020, , .		1
42	Target markers for image-based autonomous navigation. , 2022, , 341-357.		1
43	Sensitivity degradation of optical navigation camera and attempts for dust removal. , 2022, , 415-431.		1
44	Overview of the Hayabusa2 asteroid proximity operations. , 2022, , 113-136.		1
45	GNC design and results of Hayabusa2's initial remote sensing operations. , 2022, , 137-175.		0
46	MASCOT lander release operation. , 2022, , 229-240.		0
47	Hayabusa2's kinetic impact experiment. , 2022, , 291-312.		0