

Yuya Mimasu

List of Publications by Year in descending order

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48
papers

2,156
citations

394421

19
h-index

302126

39
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all docs

49
docs citations

49
times ranked

1077
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	Images from the surface of asteroid Ryugu show rocks similar to carbonaceous chondrite meteorites. <i>Science</i> , 2019, 365, 817-820.	12.6	99
8	Samples returned from the asteroid Ryugu are similar to Ivuna-type carbonaceous meteorites. <i>Science</i> , 2023, 379, .	12.6	97
9	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
10	Development of the Laser Altimeter (LIDAR) for Hayabusa2. <i>Space Science Reviews</i> , 2017, 208, 33-47.	8.1	64
11	Thermophysical properties of the surface of asteroid 162173 Ryugu: Infrared observations and thermal inertia mapping. <i>Icarus</i> , 2020, 348, 113835.	2.5	48
12	Thermally altered subsurface material of asteroid (162173) Ryugu. <i>Nature Astronomy</i> , 2021, 5, 246-250.	10.1	47
13	Collisional history of Ryugu's parent body from bright surface boulders. <i>Nature Astronomy</i> , 2021, 5, 39-45.	10.1	42
14	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
15	Modeling and analysis of Hayabusa2 touchdown. <i>Astrodynamics</i> , 2020, 4, 119-135.	2.4	30
16	Anomalously porous boulders on (162173) Ryugu as primordial materials from its parent body. <i>Nature Astronomy</i> , 2021, 5, 766-774.	10.1	30
17	The spatial distribution of impact craters on Ryugu. <i>Icarus</i> , 2020, 338, 113527.	2.5	25
18	Design and Reconstruction of the Hayabusa2 Precision Landing on Ryugu. <i>Journal of Spacecraft and Rockets</i> , 2020, 57, 1033-1060.	1.9	20

#	ARTICLE	IF	CITATIONS
19	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
20	Hayabusa2's station-keeping operation in the proximity of the asteroid Ryugu. <i>Astrodynamics</i> , 2020, 4, 349-375.	2.4	19
21	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
22	Design and flight results of GNC systems in Hayabusa2 descent operations. <i>Astrodynamics</i> , 2020, 4, 105-117.	2.4	19
23	GNC strategies and flight results of Hayabusa2 first touchdown operation. <i>Acta Astronautica</i> , 2020, 174, 131-147.	3.2	19
24	The MASCOT lander aboard Hayabusa2: The in-situ exploration of NEA (162173) Ryugu. <i>Planetary and Space Science</i> , 2021, 200, 105200.	1.7	18
25	Hayabusa2 Landing Site Selection: Surface Topography of Ryugu and Touchdown Safety. <i>Space Science Reviews</i> , 2020, 216, 1.	8.1	17
26	Hayabusa2's kinetic impact experiment: Operational planning and results. <i>Acta Astronautica</i> , 2020, 175, 362-374.	3.2	14
27	Ballistic deployment of the Hayabusa2 artificial landmarks in the microgravity environment of Ryugu. <i>Icarus</i> , 2021, 358, 114220.	2.5	13
28	Size of particles ejected from an artificial impact crater on asteroid 162173 Ryugu. <i>Astronomy and Astrophysics</i> , 2021, 647, A43.	5.1	12
29	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
30	Hayabusa2's superior solar conjunction mission operations: planning and post-operation results. <i>Astrodynamics</i> , 2020, 4, 265-288.	2.4	10
31	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
32	Motion reconstruction of the small carry-on impactor aboard Hayabusa2. <i>Astrodynamics</i> , 2020, 4, 289-308.	2.4	7
33	Simultaneous estimation of spacecraft position and asteroid diameter during final approach of Hayabusa2 to Ryugu. <i>Astrodynamics</i> , 2020, 4, 163-175.	2.4	7
34	The process for the selection of MASCOT landing site on Ryugu: Design, execution and results. <i>Planetary and Space Science</i> , 2020, 194, 105086.	1.7	6
35	Ground-based low altitude hovering technique of Hayabusa2. <i>Astrodynamics</i> , 2020, 4, 331-347.	2.4	4
36	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

#	ARTICLE	IF	CITATIONS
37	Attitude reconstruction of MASCOT lander during its descent and stay on asteroid (162173) Ryugu. Planetary and Space Science, 2021, 195, 105150.	1.7	3
38	Alignment determination of the Hayabusa2 laser altimeter (LIDAR). Earth, Planets and Space, 2021, 73, .	2.5	3
39	Hayabusa2 operation for MASCOT delivery to Ryugu surface. Planetary and Space Science, 2021, 205, 105288.	1.7	3
40	Hayabusa2 spacecraft dynamics and operational design of final descent and touchdown in sampling mission. , 2020, , .		1
41	Extended mission of Hayabusa2. , 2022, , 557-571.		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	Hayabusa2 radio science investigation. , 2022, , 387-399.		0
47	MASCOT lander release operation. , 2022, , 229-240.		0
48	Hayabusa2's kinetic impact experiment. , 2022, , 291-312.		0