Naoko Ogawa

List of Publications by Year
in descending order

48 papers	2,388 citations	361413 20 h-index	315739 38 g-index
49 all docs	49 docs citations	49 times ranked	1203 citing authors

#	Article	IF	Citations
1	Hayabusa2 arrives at the carbonaceous asteroid 162173 Ryuguâ€”A spinning topâ€“shaped rubble pile. Science, 2019, 364, 268-272.	12.6	410
2	The geomorphology, color, and thermal properties of Ryugu: Implications for parent-body processes. Science, 2019, 364, 252.	12.6	313
3	The surface composition of asteroid 162173 Ryugu from Hayabusa2 near-infrared spectroscopy. Science, 2019, 364, 272-275.	12.6	262
4	An artificial impact on the asteroid (162173) Ryugu formed a crater in the gravity-dominated regime. Science, 2020, 368, 67-71.	12.6	183
5	Sample collection from asteroid (162173) Ryugu by Hayabusa2: Implications for surface evolution. Science, 2020, 368, 654-659.	12.6	158
6	Preliminary analysis of the Hayabusa2 samples returned from C-type asteroid Ryugu. Nature Astronomy, 2022, 6, 214-220.	10.1	136
7	Highly porous nature of a primitive asteroid revealed by thermal imaging. Nature, 2020, 579, 518-522.	27.8	100
8	Samples returned from the asteroid Ryugu are similar to Ivuna-type carbonaceous meteorites. Science, 2023, 379, .	12.6	97
9	Pebbles and sand on asteroid (162173) Ryugu: In situ observation and particles returned to Earth. Science, 2022, 375, 1011-1016.	12.6	78
10	Initial inflight calibration for Hayabusa2 optical navigation camera (ONC) for science observations of asteroid Ryugu. Icarus, 2018, 300, 341-359.	2.5	56
11	Mission analysis for the Martian Moons Explorer (MMX) mission. Acta Astronautica, 2018, 146, 409-417.	3.2	53
12	Thermophysical properties of the surface of asteroid 162173 Ryugu: Infrared observations and thermal inertia mapping. Icarus, 2020, 348, 113835.	2.5	48
13	Thermally altered subsurface material of asteroid (162173) Ryugu. Nature Astronomy, 2021, 5, 246-250.	10.1	47
14	Collisional history of Ryuguâ€™s parent body from bright surface boulders. Nature Astronomy, 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. Astrodynamics, 2020, 4, 89-103.	2.4	34
16	Modeling and analysis of Hayabusa2 touchdown. Astrodynamics, 2020, 4, 119-135.	2.4	30
17	Anomalously porous boulders on (162173) Ryugu as primordial materials from its parent body. Nature Astronomy, 2021, 5, 766-774.	10.1	30
18	The spatial distribution of impact craters on Ryugu. Icarus, 2020, 338, 113527.	2.5	25

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19	Guidance, navigation, and control of Hayabusa2 touchdown operations. Astrodynamics, 2020, 4, 393-409.	2.4	25
20	Science operation plan of Phobos and Deimos from the MMX spacecraft. Earth, Planets and Space, 2021, 73, .	2.5	22
21	Rendezvous to asteroid with highly uncertain ephemeris: Hayabusa2â€™s Ryugu-approach operation result. Astrodynamics, 2020, 4, 137-147.	2.4	20
22	Design and Reconstruction of the Hayabusa2 Precision Landing on Ryugu. Journal of Spacecraft and Rockets, 2020, 57, 1033-1060.	1.9	20
23	Hayabusa2â€™s station-keeping operation in the proximity of the asteroid Ryugu. Astrodynamics, 2020, 4, 349-375.	2.4	19
24	The deep-space multi-object orbit determination system and its application to Hayabusa2â€™s asteroid proximity operations. Astrodynamics, 2020, 4, 377-392.	2.4	19
25	Design and flight results of GNC systems in Hayabusa2 descent operations. Astrodynamics, 2020, 4, 105-117.	2.4	19
26	GNC strategies and flight results of Hayabusa2 first touchdown operation. Acta Astronautica, 2020, 174, 131-147.	3.2	19
27	Hayabusa2 Landing Site Selection: Surface Topography of Ryugu and Touchdown Safety. Space Science Reviews, 2020, 216, 1.	8.1	17
28	Improving Hayabusa2 trajectory by combining LIDAR data and a shape model. Icarus, 2020, 338, 113574.	2.5	16
29	Hayabusa2's kinetic impact experiment: Operational planning and results. Acta Astronautica, 2020, 175, 362-374.	3.2	14
30	Ballistic deployment of the Hayabusa2 artificial landmarks in the microgravity environment of Ryugu. Icarus, 2021, 358, 114220.	2.5	13
31	Dynamic precise orbit determination of Hayabusa2 using laser altimeter (LIDAR) and image tracking data sets. Earth, Planets and Space, 2020, 72, .	2.5	11
32	Laser link experiment with the Hayabusa2 laser altimeter for in-flight alignment measurement. Earth, Planets and Space, 2017, 69, .	2.5	10
33	Hayabusa2â€™s superior solar conjunction mission operations: planning and post-operation results. Astrodynamics, 2020, 4, 265-288.	2.4	10
34	Hayabusa2 pinpoint touchdown near the artificial crater on Ryugu: Trajectory design and guidance performance. Advances in Space Research, 2021, 68, 3093-3140.	2.6	9
35	Motion reconstruction of the small carry-on impactor aboard Hayabusa2. Astrodynamics, 2020, 4, 289-308.	2.4	7
36	Ground-based low altitude hovering technique of Hayabusa2. Astrodynamics, 2020, 4, 331-347.	2.4	4

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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	Hayabusa2 spacecraft dynamics and operational design of final descent and touchdown in sampling mission. , 2020, , .		1
40	Target markers for image-based autonomous navigation. , 2022, , 341-357.		1
41	Sensitivity degradation of optical navigation camera and attempts for dust removal. , 2022, , 415-431.		1
42	Overview of the Hayabusa2 asteroid proximity operations. , 2022, , 113-136.		1
43	Shadow-Based Trajectory Estimation of a Deployable Payload. Journal of Spacecraft and Rockets, 0, , 1-11.	1.9	0
44	Controlled descent of Hayabusa2 to Ryugu. , 2022, , 177-187.		0
45	GNC design and results of Hayabusa2â€™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	Hayabusa2â€™s kinetic impact experiment. , 2022, , 291-312.		0