Makoto Yoshikawa

List of Publications by Year
in descending order

58	5,220	159585 30	168389 53
papers	citations	h-index	g-index

58	58	58	2158
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The Rubble-Pile Asteroid Itokawa as Observed by Hayabusa. Science, 2006, 312, 1330-1334.	12.6	761
2	Hayabusa2 arrives at the carbonaceous asteroid 162173 Ryuguâ€”A spinning topâ€“shaped rubble pile. Science, 2019, 364, 268-272.	12.6	410
3	System design of the Hayabusa 2â€”Asteroid sample return mission to 1999 JU3. Acta Astronautica, 2013, 91, 356-362.	3.2	364
4	Touchdown of the Hayabusa Spacecraft at the Muses Sea on Itokawa. Science, 2006, 312, 1350-1353.	12.6	349
5	The geomorphology, color, and thermal properties of Ryugu: Implications for parent-body processes. Science, 2019, 364, 252.	12.6	313
6	The surface composition of asteroid 162173 Ryugu from Hayabusa2 near-infrared spectroscopy. Science, 2019, 364, 272-275.	12.6	262
7	Three-Dimensional Structure of Hayabusa Samples: Origin and Evolution of Itokawa Regolith. Science, 2011, 333, 1125-1128.	12.6	249
8	Hayabusa2 Mission Overview. Space Science Reviews, 2017, 208, 3-16.	8.1	228
9	Characterizing and navigating small bodies with imaging data. Meteoritics and Planetary Science, 2008, 43, 1049-1061.	1.6	209
10	An artificial impact on the asteroid (162173) Ryugu formed a crater in the gravity-dominated regime. Science, 2020, 368, 67-71.	12.6	183
11	Sample collection from asteroid (162173) Ryugu by Hayabusa2: Implications for surface evolution. Science, 2020, 368, 654-659.	12.6	158
12	Preliminary analysis of the Hayabusa2 samples returned from C-type asteroid Ryugu. Nature Astronomy, 2022, 6, 214-220.	10.1	136
13	Hayabusa2 mission status: Landing, roving and cratering on asteroid Ryugu. Acta Astronautica, 2020, 171, 42-54.	3.2	111
14	Boulder size and shape distributions on asteroid Ryugu. Icarus, 2019, 331, 179-191.	2.5	107
15	Hayabusa2: Scientific importance of samples returned from C-type near-Earth asteroid (162173) 1999 JU3. Geochemical Journal, 2014, 48, 571-587.	1.0	103
16	Highly porous nature of a primitive asteroid revealed by thermal imaging. Nature, 2020, 579, 518-522.	27.8	100
17	Images from the surface of asteroid Ryugu show rocks similar to carbonaceous chondrite meteorites. Science, 2019, 365, 817-820.	12.6	99
18	Samples returned from the asteroid Ryugu are similar to Ivuna-type carbonaceous meteorites. Science, 2023, 379, .	12.6	97

#	Article	IF	Citations
19	Collisional formation of top-shaped asteroids and implications for the origins of Ryugu and Bennu. Nature Communications, 2020, 11, 2655.	12.8	87
20	The ESA Hera Mission: Detailed Characterization of the DART Impact Outcome and of the Binary Asteroid (65803) Didymos. Planetary Science Journal, 2022, 3, 160.	3.6	82
21	Pebbles and sand on asteroid (162173) Ryugu: In situ observation and particles returned to Earth. Science, 2022, 375, 1011-1016.	12.6	78
22	First compositional analysis of Ryugu samples by the MicrOmega hyperspectral microscope. Nature Astronomy, 2022, 6, 221-225.	10.1	65
23	Thermophysical properties of the surface of asteroid 162173 Ryugu: Infrared observations and thermal inertia mapping. Icarus, 2020, 348, 113835.	2.5	48
24	Thermally altered subsurface material of asteroid (162173) Ryugu. Nature Astronomy, 2021, 5, 246-250.	10.1	47
25	The Camera of the MASCOT Asteroid Lander on Board Hayabusa 2. Space Science Reviews, 2017, 208, 375-400.	8.1	46
26	OPTICAL PROPERTIES OF (162173) 1999 JU3: IN PREPARATION FOR THE JAXAHAYABUSA 2SAMPLE RETURN MISSION. Astrophysical Journal, 2014, 792, 74.	4.5	45
27	Rotational spectra of (162173) 1999 JU3, the target of the Hayabusa2 mission. Astronomy and Astrophysics, 2013, 549, L2.	5.1	44
28	Spectral and rotational properties of near-Earth asteroid (162173) Ryugu, target of the Hayabusa2 sample return mission. Astronomy and Astrophysics, 2017, 599, L1.	5.1	43
29	Collisional history of Ryuguâ€™s parent body from bright surface boulders. Nature Astronomy, 2021, 5, 39-45.	10.1	42
30	Global photometric properties of (162173) Ryugu. Astronomy and Astrophysics, 2020, 639, A83.	5.1	37
31	The Western Bulge of 162173 Ryugu Formed as a Result of a Rotationally Driven Deformation Process. Astrophysical Journal Letters, 2019, 874, L10.	8.3	30
32	Anomalously porous boulders on (162173) Ryugu as primordial materials from its parent body. Nature Astronomy, 2021, 5, 766-774.	10.1	30
33	Reconstructing the formation history of top-shaped asteroids from the surface boulder distribution. Nature Astronomy, 2021, 5, 134-138.	10.1	27
34	The spatial distribution of impact craters on Ryugu. Icarus, 2020, 338, 113527.	2.5	25
35	Spectrally blue hydrated parent body of asteroid (162173) Ryugu. Nature Communications, 2021, 12, 5837.	12.8	23
36	Hayabusa2 extended mission: New voyage to rendezvous with a small asteroid rotating with a short period. Advances in Space Research, 2021, 68, 1533-1555.	2.6	20

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37	Hayabusa2â€™s station-keeping operation in the proximity of the asteroid Ryugu. Astrodynamics, 2020, 4, 349-375.	2.4	19
38	Hayabusa2 Landing Site Selection: Surface Topography of Ryugu and Touchdown Safety. Space Science Reviews, 2020, 216, 1.	8.1	17
39	Improving Hayabusa2 trajectory by combining LIDAR data and a shape model. Icarus, 2020, 338, 113574.	2.5	16
40	Multivariable statistical analysis of spectrophotometry and spectra of (162173) Ryugu as observed by JAXA Hayabusa2 mission. Astronomy and Astrophysics, 2019, 629, A13.	5.1	15
41	Hayabusa2's kinetic impact experiment: Operational planning and results. Acta Astronautica, 2020, 175, 362-374.	3.2	14
42	Ballistic deployment of the Hayabusa2 artificial landmarks in the microgravity environment of Ryugu. Icarus, 2021, 358, 114220.	2.5	13
43	Dynamic precise orbit determination of Hayabusa2 using laser altimeter (LIDAR) and image tracking data sets. Earth, Planets and Space, 2020, 72, .	2.5	11
44	Hayabusa2â€™s superior solar conjunction mission operations: planning and post-operation results. Astrodynamics, 2020, 4, 265-288.	2.4	10
45	Characterization of the Ryugu surface by means of the variability of the near-infrared spectral slope in NIRS3 data. Icarus, 2020, 351, 113959.	2.5	9
46	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
47	Motion reconstruction of the small carry-on impactor aboard Hayabusa2. Astrodynamics, 2020, 4, 289-308.	2.4	7
48	Implications of High Polarization Degree for the Surface State of Ryugu. Astrophysical Journal Letters, 2021, 911, L24.	8.3	6
49	Site selection for the Hayabusa2 artificial cratering and subsurface material sampling on Ryugu. Planetary and Space Science, 2022, 219, 105519.	1.7	4
50	Alignment determination of the Hayabusa2 laser altimeter (LIDAR). Earth, Planets and Space, 2021, 73, .	2.5	3
51	Mission objectives, planning, and achievements of Hayabusa2. , 2022, , 5-23.		3
52	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
53	Three-axial shape distributions of pebbles, cobbles and boulders smaller than a few meters on asteroid Ryugu. Icarus, 2022, 381, 115007.	2.5	1
54	Extended mission of Hayabusa2. , 2022, , 557-571.		1

#	Article	IF	Citations
55	Overview of the Hayabusa2 asteroid proximity operations. , 2022, , 113-136.		1
56	NIRS3 spectral analysis of the artificial Omusubi-Kororin crater on Ryugu. Monthly Notices of the Royal Astronomical Society, 2022, 514, 6173-6182.	4.4	1
57	Orbit determination for Hayabusa2. , 2022, , 73-94.		0
58	Hayabusa2â€™s kinetic impact experiment. , 2022, , 291-312.		0