

Kazunori Ogawa

List of Publications by Year in descending order

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Version: 2024-02-01

58
papers

2,869
citations

279798

23
h-index

175258

52
g-index

61
all docs

61
docs citations

61
times ranked

1329
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	Low thermal conductivity boulder with high porosity identified on C-type asteroid (162173) Ryugu. <i>Nature Astronomy</i> , 2019, 3, 971-976.	10.1	124
8	Boulder size and shape distributions on asteroid Ryugu. <i>Icarus</i> , 2019, 331, 179-191.	2.5	107
9	Highly porous nature of a primitive asteroid revealed by thermal imaging. <i>Nature</i> , 2020, 579, 518-522.	27.8	100
10	Samples returned from the asteroid Ryugu are similar to Ivuna-type carbonaceous meteorites. <i>Science</i> , 2023, 379, .	12.6	97
11	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
12	Thermal conductivity model for powdered materials under vacuum based on experimental studies. <i>AIP Advances</i> , 2017, 7, .	1.3	75
13	Thermal conductivity of lunar regolith simulant JSC-1A under vacuum. <i>Icarus</i> , 2018, 309, 13-24.	2.5	54
14	Martian moons exploration MMX: sample return mission to Phobos elucidating formation processes of habitable planets. <i>Earth, Planets and Space</i> , 2022, 74, .	2.5	51
15	Thermophysical properties of the surface of asteroid 162173 Ryugu: Infrared observations and thermal inertia mapping. <i>Icarus</i> , 2020, 348, 113835.	2.5	48
16	Thermally altered subsurface material of asteroid (162173) Ryugu. <i>Nature Astronomy</i> , 2021, 5, 246-250.	10.1	47
17	Scientific Objectives of Small Carry-on Impactor (SCI) and Deployable Camera 3 Digital (DCAM3-D): Observation of an Ejecta Curtain and a Crater Formed on the Surface of Ryugu by an Artificial High-Velocity Impact. <i>Space Science Reviews</i> , 2017, 208, 187-212.	8.1	44
18	Collisional history of Ryugu’s parent body from bright surface boulders. <i>Nature Astronomy</i> , 2021, 5, 39-45.	10.1	42

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19	Asteroid Ryugu before the Hayabusa2 encounter. <i>Progress in Earth and Planetary Science</i> , 2018, 5, .	3.0	39
20	The Western Bulge of 162173 Ryugu Formed as a Result of a Rotationally Driven Deformation Process. <i>Astrophysical Journal Letters</i> , 2019, 874, L10.	8.3	30
21	Anomalously porous boulders on (162173) Ryugu as primordial materials from its parent body. <i>Nature Astronomy</i> , 2021, 5, 766-774.	10.1	30
22	The spatial distribution of impact craters on Ryugu. <i>Icarus</i> , 2020, 338, 113527.	2.5	25
23	Resurfacing processes on asteroid (162173) Ryugu caused by an artificial impact of Hayabusa2's Small Carry-on Impactor. <i>Icarus</i> , 2021, 366, 114530.	2.5	24
24	Spectrally blue hydrated parent body of asteroid (162173) Ryugu. <i>Nature Communications</i> , 2021, 12, 5837.	12.8	23
25	Science operation plan of Phobos and Deimos from the MMX spacecraft. <i>Earth, Planets and Space</i> , 2021, 73, .	2.5	22
26	Compressional stress effect on thermal conductivity of powdered materials: Measurements and their implication to lunar regolith. <i>Icarus</i> , 2016, 267, 1-11.	2.5	21
27	Effects of dust layers on thermal emission from airless bodies. <i>Progress in Earth and Planetary Science</i> , 2019, 6, .	3.0	19
28	Impact Experiment on Asteroid (162173) Ryugu: Structure beneath the Impact Point Revealed by In Situ Observations of the Ejecta Curtain. <i>Astrophysical Journal Letters</i> , 2020, 899, L22.	8.3	19
29	Experimental study for thermal conductivity structure of lunar surface regolith: Effect of compressional stress. <i>Icarus</i> , 2012, 221, 1180-1182.	2.5	18
30	System Configuration and Operation Plan of Hayabusa2 DCAM3-D Camera System for Scientific Observation During SCI Impact Experiment. <i>Space Science Reviews</i> , 2017, 208, 125-142.	8.1	18
31	The descent and bouncing path of the Hayabusa2 lander MASCOT at asteroid (162173) Ryugu. <i>Astronomy and Astrophysics</i> , 2019, 632, L3.	5.1	18
32	Performance of Hayabusa2 DCAM3-D Camera for Short-Range Imaging of SCI and Ejecta Curtain Generated from the Artificial Impact Crater Formed on Asteroid 162137 Ryugu (1999 JU 3) Tj ETQq0 0 0 rgBT /Overdack 10 Tf 50 217 Td		
33	Hayabusa2 Landing Site Selection: Surface Topography of Ryugu and Touchdown Safety. <i>Space Science Reviews</i> , 2020, 216, 1.	8.1	17
34	Improving Hayabusa2 trajectory by combining LIDAR data and a shape model. <i>Icarus</i> , 2020, 338, 113574.	2.5	16
35	Multivariable statistical analysis of spectrophotometry and spectra of (162173) Ryugu as observed by JAXA Hayabusa2 mission. <i>Astronomy and Astrophysics</i> , 2019, 629, A13.	5.1	15
36	Surface environment of Phobos and Phobos simulant UTPS. <i>Earth, Planets and Space</i> , 2021, 73, .	2.5	15

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37	Validation of Emissivity Estimates from ASTER and MODIS Data. , 2006, , .		12
38	Crater depth-to-diameter ratios on asteroid 162173 Ryugu. <i>Icarus</i> , 2021, 354, 114016.	2.5	12
39	Size of particles ejected from an artificial impact crater on asteroid 162173 Ryugu. <i>Astronomy and Astrophysics</i> , 2021, 647, A43.	5.1	12
40	Opposition Observations of 162173 Ryugu: Normal Albedo Map Highlights Variations in Regolith Characteristics. <i>Planetary Science Journal</i> , 2021, 2, 177.	3.6	12
41	Surface roughness of asteroid (162173) Ryugu and comet 67P/Churyumovâ€™Gerasimenko inferred from <i>in situ</i> observations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 500, 3178-3193.	4.4	11
42	Possibility of estimating particle size and porosity on Ryugu through MARA temperature measurements. <i>Icarus</i> , 2019, 333, 318-322.	2.5	10
43	Geologic History and Crater Morphology of Asteroid (162173) Ryugu. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, e2020JE006572.	3.6	10
44	The MASCOT landing area on asteroid (162173) Ryugu: Stereo-photogrammetric analysis using images of the ONC onboard the Hayabusa2 spacecraft. <i>Astronomy and Astrophysics</i> , 2019, 632, L4.	5.1	9
45	Improved method of hydrous mineral detection by latitudinal distribution of 0.7-1¼m surface reflectance absorption on the asteroid Ryugu. <i>Icarus</i> , 2021, 360, 114348.	2.5	9
46	Simulation of Seismic Wave Propagation on Asteroid Ryugu Induced by The Impact Experiment of The Hayabusa2 Mission: Limited Mass Transport by Low Yield Strength of Porous Regolith. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, e2020JE006594.	3.6	8
47	Impacts may provide heat for aqueous alteration and organic solid formation on asteroid parent bodies. <i>Communications Earth & Environment</i> , 2021, 2, .	6.8	8
48	Motion reconstruction of the small carry-on impactor aboard Hayabusa2. <i>Astrodynamics</i> , 2020, 4, 289-308.	2.4	7
49	Development of image texture analysis technique for boulder distribution measurements: Applications to asteroids Ryugu and Itokawa. <i>Planetary and Space Science</i> , 2021, 204, 105249.	1.7	6
50	Resurfacing processes constrained by crater distribution on Ryugu. <i>Icarus</i> , 2022, 377, 114911.	2.5	6
51	High-resolution observations of bright boulders on asteroid Ryugu: 2. Spectral properties. <i>Icarus</i> , 2021, 369, 114591.	2.5	5
52	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
53	A thermal control system for long-term survival of scientific instruments on lunar surface. <i>Review of Scientific Instruments</i> , 2014, 85, 035108.	1.3	3
54	Alignment determination of the Hayabusa2 laser altimeter (LIDAR). <i>Earth, Planets and Space</i> , 2021, 73, .	2.5	3

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55	High-resolution observations of bright boulders on asteroid Ryugu: 1. Size frequency distribution and morphology. <i>Icarus</i> , 2021, 369, 114529.	2.5	2
56	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
57	Hayabusa2's kinetic impact experiment. , 2022, , 291-312.		0
58	Experimental Investigation of Visible-Light and X-ray Emissions during Rock and Mineral Fracture: Role of Electrons Traveling between Fracture Surfaces. <i>Minerals (Basel, Switzerland)</i> , 2022, 12, 778.	2.0	0