

Manabu Yamada

List of Publications by Year in descending order

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Version: 2024-02-01

70
papers

3,252
citations

186265
28
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149698
56
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74
all docs

74
docs citations

74
times ranked

1537
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	Boulder size and shape distributions on asteroid Ryugu. <i>Icarus</i> , 2019, 331, 179-191.	2.5	107
8	Highly porous nature of a primitive asteroid revealed by thermal imaging. <i>Nature</i> , 2020, 579, 518-522.	27.8	100
9	Large stationary gravity wave in the atmosphere of Venus. <i>Nature Geoscience</i> , 2017, 10, 85-88.	12.9	99
10	Samples returned from the asteroid Ryugu are similar to Ivuna-type carbonaceous meteorites. <i>Science</i> , 2023, 379, .	12.6	97
11	AKATSUKI returns to Venus. <i>Earth, Planets and Space</i> , 2016, 68, .	2.5	89
12	Preflight Calibration Test Results for Optical Navigation Camera Telescope (ONC-T) Onboard the Hayabusa2 Spacecraft. <i>Space Science Reviews</i> , 2017, 208, 17-31.	8.1	81
13	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
14	Overview of Venus orbiter, Akatsuki. <i>Earth, Planets and Space</i> , 2011, 63, 443-457.	2.5	72
15	Initial inflight calibration for Hayabusa2 optical navigation camera (ONC) for science observations of asteroid Ryugu. <i>Icarus</i> , 2018, 300, 341-359.	2.5	56
16	Mean winds at the cloud top of Venus obtained from two-wavelength UV imaging by Akatsuki. <i>Earth, Planets and Space</i> , 2018, 70, .	2.5	52
17	Updated inflight calibration of Hayabusa2's optical navigation camera (ONC) for scientific observations during the cruise phase. <i>Icarus</i> , 2019, 325, 153-195.	2.5	48
18	Thermophysical properties of the surface of asteroid 162173 Ryugu: Infrared observations and thermal inertia mapping. <i>Icarus</i> , 2020, 348, 113835.	2.5	48

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19	Thermally altered subsurface material of asteroid (162173) Ryugu. <i>Nature Astronomy</i> , 2021, 5, 246-250.	10.1	47
20	Collisional history of Ryugu's parent body from bright surface boulders. <i>Nature Astronomy</i> , 2021, 5, 39-45.	10.1	42
21	How waves and turbulence maintain the super-rotation of Venus's atmosphere. <i>Science</i> , 2020, 368, 405-409.	12.6	41
22	Global photometric properties of (162173) Ryugu. <i>Astronomy and Astrophysics</i> , 2020, 639, A83.	5.1	37
23	Equatorial jet in the lower to middle cloud layer of Venus revealed by Akatsuki. <i>Nature Geoscience</i> , 2017, 10, 646-651.	12.9	35
24	Ultraviolet imager on Venus orbiter Akatsuki and its initial results. <i>Earth, Planets and Space</i> , 2018, 70, 23.	2.5	34
25	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
26	Venus looks different from day to night across wavelengths: morphology from Akatsuki multispectral images. <i>Earth, Planets and Space</i> , 2018, 70, 24.	2.5	31
27	Long-term Variations of Venus's 365 nm Albedo Observed by Venus Express, Akatsuki, MESSENGER, and the Hubble Space Telescope. <i>Astronomical Journal</i> , 2019, 158, 126.	4.7	30
28	Anomalously porous boulders on (162173) Ryugu as primordial materials from its parent body. <i>Nature Astronomy</i> , 2021, 5, 766-774.	10.1	30
29	Performance of Akatsuki/IR2 in Venus orbit: the first year. <i>Earth, Planets and Space</i> , 2017, 69, .	2.5	28
30	Scattering Properties of the Venusian Clouds Observed by the UV Imager on board Akatsuki. <i>Astronomical Journal</i> , 2017, 154, 44.	4.7	27
31	The spatial distribution of impact craters on Ryugu. <i>Icarus</i> , 2020, 338, 113527.	2.5	25
32	Return to Venus of the Japanese Venus Climate Orbiter AKATSUKI. <i>Acta Astronautica</i> , 2014, 93, 384-389.	3.2	24
33	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
34	Spectrally blue hydrated parent body of asteroid (162173) Ryugu. <i>Nature Communications</i> , 2021, 12, 5837.	12.8	23
35	Planetary-scale Variations in Winds and UV Brightness at the Venusian Cloud Top: Periodicity and Temporal Evolution. <i>Journal of Geophysical Research E: Planets</i> , 2019, 124, 2635-2659.	3.6	21
36	Overview of Akatsuki data products: definition of data levels, method and accuracy of geometric correction. <i>Earth, Planets and Space</i> , 2017, 69, .	2.5	20

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37	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
38	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
39	Stationary Features at the Cloud Top of Venus Observed by Ultraviolet Imager Onboard Akatsuki. <i>Journal of Geophysical Research E: Planets</i> , 2019, 124, 1266-1281.	3.6	17
40	Hayabusa2 Landing Site Selection: Surface Topography of Ryugu and Touchdown Safety. <i>Space Science Reviews</i> , 2020, 216, 1.	8.1	17
41	Improving Hayabusa2 trajectory by combining LIDAR data and a shape model. <i>Icarus</i> , 2020, 338, 113574.	2.5	16
42	Image velocimetry for clouds with relaxation labeling based on deformation consistency. <i>Measurement Science and Technology</i> , 2017, 28, 085301.	2.6	15
43	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
44	Venus's clouds as inferred from the phase curves acquired by IR1 and IR2 on board Akatsuki. <i>Icarus</i> , 2015, 248, 213-220.	2.5	13
45	Dayside cloud top structure of Venus retrieved from Akatsuki IR2 observations. <i>Icarus</i> , 2020, 345, 113682.	2.5	13
46	Ballistic deployment of the Hayabusa2 artificial landmarks in the microgravity environment of Ryugu. <i>Icarus</i> , 2021, 358, 114220.	2.5	13
47	Crater depth-to-diameter ratios on asteroid 162173 Ryugu. <i>Icarus</i> , 2021, 354, 114016.	2.5	12
48	Opposition Observations of 162173 Ryugu: Normal Albedo Map Highlights Variations in Regolith Characteristics. <i>Planetary Science Journal</i> , 2021, 2, 177.	3.6	12
49	Surface roughness of asteroid (162173) Ryugu and comet 67P/Churyumov-Gerasimenko inferred from in situ observations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 500, 3178-3193.	4.4	11
50	Post-arrival calibration of Hayabusa2's optical navigation cameras (ONCs): Severe effects from touchdown events. <i>Icarus</i> , 2021, 360, 114353.	2.5	11
51	Formation of the Y Feature at the Venusian Cloud Top by Planetary-Scale Waves and the Mean Circulation: Analysis of Venus Express VMC Images. <i>Journal of Geophysical Research E: Planets</i> , 2019, 124, 1143-1156.	3.6	10
52	Brightness modulations of our nearest terrestrial planet Venus reveal atmospheric super-rotation rather than surface features. <i>Nature Communications</i> , 2020, 11, 5720.	12.8	10
53	Geologic History and Crater Morphology of Asteroid (162173) Ryugu. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, e2020JE006572.	3.6	10
54	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

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55	Improved method of hydrous mineral detection by latitudinal distribution of 0.7-1.4m surface reflectance absorption on the asteroid Ryugu. <i>Icarus</i> , 2021, 360, 114348.	2.5	9
56	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
57	Motion reconstruction of the small carry-on impactor aboard Hayabusa2. <i>Astrodynamics</i> , 2020, 4, 289-308.	2.4	7
58	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
59	Resurfacing processes constrained by crater distribution on Ryugu. <i>Icarus</i> , 2022, 377, 114911.	2.5	6
60	Investigation of UV Absorbers on Venus Using the 283 and 365nm Phase Curves Obtained From Akatsuki. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL090577.	4.0	5
61	High-resolution observations of bright boulders on asteroid Ryugu: 2. Spectral properties. <i>Icarus</i> , 2021, 369, 114591.	2.5	5
62	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
63	Alignment determination of the Hayabusa2 laser altimeter (LIDAR). <i>Earth, Planets and Space</i> , 2021, 73, .	2.5	3
64	Correlation of Venusian Mesoscale Cloud Morphology Between Images Acquired at Various Wavelengths. <i>Journal of Geophysical Research E: Planets</i> , 2022, 127, .	3.6	3
65	Vertical Coupling Between the Cloud-Level Atmosphere and the Thermosphere of Venus Inferred From the Simultaneous Observations by Hisaki and Akatsuki. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2019JE006192.	3.6	2
66	High-resolution observations of bright boulders on asteroid Ryugu: 1. Size frequency distribution and morphology. <i>Icarus</i> , 2021, 369, 114529.	2.5	2
67	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
68	Target markers for image-based autonomous navigation. , 2022, , 341-357.		1
69	Sensitivity degradation of optical navigation camera and attempts for dust removal. , 2022, , 415-431.		1
70	Hayabusa2 radio science investigation. , 2022, , 387-399.		0