

Yasuhiro Yokota

List of Publications by Year in descending order

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Version: 2024-02-01

67
papers

4,079
citations

136950

32
h-index

114465

63
g-index

69
all docs

69
docs citations

69
times ranked

2082
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 global distribution of pure anorthosite on the Moon. <i>Nature</i> , 2009, 461, 236-240.	27.8	265
4	The surface composition of asteroid 162173 Ryugu from Hayabusa2 near-infrared spectroscopy. <i>Science</i> , 2019, 364, 272-275.	12.6	262
5	Possible mantle origin of olivine around lunar impact basins detected by SELENE. <i>Nature Geoscience</i> , 2010, 3, 533-536.	12.9	184
6	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
7	Sample collection from asteroid (162173) Ryugu by Hayabusa2: Implications for surface evolution. <i>Science</i> , 2020, 368, 654-659.	12.6	158
8	Preliminary analysis of the Hayabusa2 samples returned from C-type asteroid Ryugu. <i>Nature Astronomy</i> , 2022, 6, 214-220.	10.1	136
9	Possible lunar lava tube skylight observed by SELENE cameras. <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	134
10	Long-Lived Volcanism on the Lunar Farside Revealed by SELENE Terrain Camera. <i>Science</i> , 2009, 323, 905-908.	12.6	133
11	Performance and scientific objectives of the SELENE (KAGUYA) Multiband Imager. <i>Earth, Planets and Space</i> , 2008, 60, 257-264.	2.5	116
12	Boulder size and shape distributions on asteroid Ryugu. <i>Icarus</i> , 2019, 331, 179-191.	2.5	107
13	Massive layer of pure anorthosite on the Moon. <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	102
14	Highly porous nature of a primitive asteroid revealed by thermal imaging. <i>Nature</i> , 2020, 579, 518-522.	27.8	100
15	Images from the surface of asteroid Ryugu show rocks similar to carbonaceous chondrite meteorites. <i>Science</i> , 2019, 365, 817-820.	12.6	99
16	Samples returned from the asteroid Ryugu are similar to Ivuna-type carbonaceous meteorites. <i>Science</i> , 2023, 379, .	12.6	97
17	Asymmetric crustal growth on the Moon indicated by primitive farside highland materials. <i>Nature Geoscience</i> , 2012, 5, 384-388.	12.9	79
18	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

#	ARTICLE	IF	CITATIONS
19	Deriving the Absolute Reflectance of Lunar Surface Using SELENE (Kaguya) Multiband Imager Data. <i>Space Science Reviews</i> , 2010, 154, 57-77.	8.1	67
20	Detection of Intact Lava Tubes at Marius Hills on the Moon by SELENE (Kaguya) Lunar Radar Sounder. <i>Geophysical Research Letters</i> , 2017, 44, 10,155.	4.0	62
21	Ultramafic impact melt sheet beneath the South Pole–Aitken basin on the Moon. <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	61
22	Olivine-rich exposures in the South Pole-Aitken Basin. <i>Icarus</i> , 2012, 218, 331-344.	2.5	57
23	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
24	Geologic structure generated by large–impact basin formation observed at the South Pole–Aitken basin on the Moon. <i>Geophysical Research Letters</i> , 2014, 41, 2738-2745.	4.0	49
25	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
26	Thermally altered subsurface material of asteroid (162173) Ryugu. <i>Nature Astronomy</i> , 2021, 5, 246-250.	10.1	47
27	Compositional evidence for an impact origin of the Moon's Procellarum basin. <i>Nature Geoscience</i> , 2012, 5, 775-778.	12.9	45
28	Collisional history of Ryugu's parent body from bright surface boulders. <i>Nature Astronomy</i> , 2021, 5, 39-45.	10.1	42
29	A new type of pyroclastic deposit on the Moon containing Fe–spinel and chromite. <i>Geophysical Research Letters</i> , 2013, 40, 4549-4554.	4.0	38
30	Global photometric properties of (162173) Ryugu. <i>Astronomy and Astrophysics</i> , 2020, 639, A83.	5.1	37
31	Preflight and In-Flight Calibration of the Spectral Profiler on Board SELENE (Kaguya). <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2011, 49, 4660-4676.	6.3	35
32	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
33	Development of an application scheme for the SELENE/SP lunar reflectance model for radiometric calibration of hyperspectral and multispectral sensors. <i>Planetary and Space Science</i> , 2016, 124, 76-83.	1.7	33
34	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
35	Anomalously porous boulders on (162173) Ryugu as primordial materials from its parent body. <i>Nature Astronomy</i> , 2021, 5, 766-774.	10.1	30
36	Characterization of Multiband Imager Aboard SELENE. <i>Space Science Reviews</i> , 2010, 154, 79-102.	8.1	27

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37	The spatial distribution of impact craters on Ryugu. <i>Icarus</i> , 2020, 338, 113527.	2.5	25
38	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
39	An explanation of bright areas inside Shackleton Crater at the Lunar South Pole other than water-ice deposits. <i>Geophysical Research Letters</i> , 2013, 40, 3814-3818.	4.0	23
40	Spectrally blue hydrated parent body of asteroid (162173) Ryugu. <i>Nature Communications</i> , 2021, 12, 5837.	12.8	23
41	Evidence of impact melt sheet differentiation of the lunar South Pole-Aitken basin. <i>Journal of Geophysical Research E: Planets</i> , 2017, 122, 1672-1686.	3.6	22
42	The widespread occurrence of high-calcium pyroxene in bright-ray craters on the Moon and implications for lunar-crust composition. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	4.0	18
43	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
44	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
45	Global occurrence trend of high-Ca pyroxene on lunar highlands and its implications. <i>Journal of Geophysical Research E: Planets</i> , 2015, 120, 831-848.	3.6	13
46	Crater depth-to-diameter ratios on asteroid 162173 Ryugu. <i>Icarus</i> , 2021, 354, 114016.	2.5	12
47	Opposition Observations of 162173 Ryugu: Normal Albedo Map Highlights Variations in Regolith Characteristics. <i>Planetary Science Journal</i> , 2021, 2, 177.	3.6	12
48	Variation of the lunar highland surface roughness at baseline 0.15-100%km and the relationship to relative age. <i>Geophysical Research Letters</i> , 2014, 41, 1444-1451.	4.0	11
49	Surface roughness of asteroid (162173) Ryugu and comet 67P/Churyumov-Gerasimenko inferred from <i>in situ</i> 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	Geologic History and Crater Morphology of Asteroid (162173) Ryugu. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, e2020JE006572.	3.6	10
52	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
53	Improved method of hydrous mineral detection by latitudinal distribution of 0.7-1.4µm surface reflectance absorption on the asteroid Ryugu. <i>Icarus</i> , 2021, 360, 114348.	2.5	9
54	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

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55	Motion reconstruction of the small carry-on impactor aboard Hayabusa2. <i>Astrodynamics</i> , 2020, 4, 289-308.	2.4	7
56	Spectral characterization of the craters of Ryugu as observed by the NIRS3 instrument on-board Hayabusa2. <i>Icarus</i> , 2021, 357, 114253.	2.5	7
57	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
58	Resurfacing processes constrained by crater distribution on Ryugu. <i>Icarus</i> , 2022, 377, 114911.	2.5	6
59	Mission Concepts of Unprecedented Zipangu Underworld of the Moon Exploration (UZUME) Project. <i>Transactions of the Japan Society for Aeronautical and Space Sciences Aerospace Technology Japan</i> , 2016, 14, Pk_147-Pk_150.	0.2	5
60	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
61	Alignment determination of the Hayabusa2 laser altimeter (LIDAR). <i>Earth, Planets and Space</i> , 2021, 73, .	2.5	3
62	Spectrophotometric Properties of 162173 Ryugu's Surface from the NIRS3 Opposition Observations. <i>Planetary Science Journal</i> , 2021, 2, 178.	3.6	3
63	Linking Carbon Dioxide Variability at Hateruma Station to East Asia Emissions by Bayesian Inversion. <i>Geophysical Monograph Series</i> , 2013, , 163-172.	0.1	2
64	Usability of lunar reflectance model based on SELENE/SP for planned HISUI radiometric calibration. , 2013, , .		1
65	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
66	Sensitivity degradation of optical navigation camera and attempts for dust removal. , 2022, , 415-431.		1
67	Development of Numerical Model of the Thermal State of an Asteroid with Locally Rough Surface and Its Application. <i>International Journal of Thermophysics</i> , 2022, 43, 1.	2.1	1