

# Eri Tatsumi

## List of Publications by Year in descending order

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Version: 2024-02-01

58  
papers

2,987  
citations

236925

25  
h-index

161849

54  
g-index

67  
all docs

67  
docs citations

67  
times ranked

1317  
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	Properties of rubble-pile asteroid (101955) Bennu from OSIRIS-REx imaging and thermal analysis. <i>Nature Astronomy</i> , 2019, 3, 341-351.	10.1	188
5	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
6	Sample collection from asteroid (162173) Ryugu by Hayabusa2: Implications for surface evolution. <i>Science</i> , 2020, 368, 654-659.	12.6	158
7	Preliminary analysis of the Hayabusa2 samples returned from C-type asteroid Ryugu. <i>Nature Astronomy</i> , 2022, 6, 214-220.	10.1	136
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	Variations in color and reflectance on the surface of asteroid (101955) Bennu. <i>Science</i> , 2020, 370, .	12.6	84
12	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
13	Ground and In-Flight Calibration of the OSIRIS-REx Camera Suite. <i>Space Science Reviews</i> , 2020, 216, 12.	8.1	57
14	Exogenic basalt on asteroid (101955) Bennu. <i>Nature Astronomy</i> , 2021, 5, 31-38.	10.1	57
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	Cratering efficiency on coarse-grain targets: Implications for the dynamical evolution of asteroid 25143 Itokawa. <i>Icarus</i> , 2018, 300, 227-248.	2.5	48
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	Thermally altered subsurface material of asteroid (162173) Ryugu. <i>Nature Astronomy</i> , 2021, 5, 246-250.	10.1	47

#	ARTICLE	IF	CITATIONS
19	Collisional history of Ryugu's parent body from bright surface boulders. <i>Nature Astronomy</i> , 2021, 5, 39-45.	10.1	42
20	Global photometric properties of (162173) Ryugu. <i>Astronomy and Astrophysics</i> , 2020, 639, A83.	5.1	37
21	Numerical modeling of lander interaction with a low-gravity asteroid regolith surface. <i>Astronomy and Astrophysics</i> , 2018, 615, A41.	5.1	31
22	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
23	Anomalously porous boulders on (162173) Ryugu as primordial materials from its parent body. <i>Nature Astronomy</i> , 2021, 5, 766-774.	10.1	30
24	Spin-driven evolution of asteroids' top-shapes at fast and slow spins seen from (101955) Bennu and (162173) Ryugu. <i>Icarus</i> , 2020, 352, 113946.	2.5	28
25	The spatial distribution of impact craters on Ryugu. <i>Icarus</i> , 2020, 338, 113527.	2.5	25
26	Photometry of asteroid (101955) Bennu with OVIRS on OSIRIS-REx. <i>Icarus</i> , 2021, 358, 114183.	2.5	25
27	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
28	Spectrally blue hydrated parent body of asteroid (162173) Ryugu. <i>Nature Communications</i> , 2021, 12, 5837.	12.8	23
29	Ground-based characterization of Hayabusa2 mission target asteroid 162173 Ryugu: constraining mineralogical composition in preparation for spacecraft operations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 475, 614-623.	4.4	21
30	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
31	Hayabusa2 Landing Site Selection: Surface Topography of Ryugu and Touchdown Safety. <i>Space Science Reviews</i> , 2020, 216, 1.	8.1	17
32	Vis-NIR disk-integrated photometry of asteroid 25143 Itokawa around opposition by AMICA/Hayabusa. <i>Icarus</i> , 2018, 311, 175-196.	2.5	15
33	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
34	Bennu's global surface and two candidate sample sites characterized by spectral clustering of OSIRIS-REx multispectral images. <i>Icarus</i> , 2021, 364, 114467.	2.5	14
35	Rarefied gas flows through a curved channel: Application of a diffusion-type equation. <i>Physics of Fluids</i> , 2010, 22, 112001.	4.0	12
36	Crater depth-to-diameter ratios on asteroid 162173 Ryugu. <i>Icarus</i> , 2021, 354, 114016.	2.5	12

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37	Opposition Observations of 162173 Ryugu: Normal Albedo Map Highlights Variations in Regolith Characteristics. <i>Planetary Science Journal</i> , 2021, 2, 177.	3.6	12
38	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
39	Post-arrival calibration of Hayabusa2's optical navigation cameras (ONCs): Severe effects from touchdown events. <i>Icarus</i> , 2021, 360, 114353.	2.5	11
40	Numerical modeling of lander interaction with a low-gravity asteroid regolith surface. <i>Astronomy and Astrophysics</i> , 2021, 648, A56.	5.1	10
41	Geologic History and Crater Morphology of Asteroid (162173) Ryugu. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, e2020JE006572.	3.6	10
42	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
43	Improved method of hydrous mineral detection by latitudinal distribution of 0.7-1.4 $\mu$ m surface reflectance absorption on the asteroid Ryugu. <i>Icarus</i> , 2021, 360, 114348.	2.5	9
44	Widely distributed exogenic materials of varying compositions and morphologies on asteroid (101955) Bennu. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 508, 2053-2070.	4.4	9
45	Spectral decomposition of asteroid Itokawa based on principal component analysis. <i>Icarus</i> , 2018, 299, 386-395.	2.5	7
46	Physical characterization of 2020AV2, the first known asteroid orbiting inside Venus orbit. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 496, 3572-3581.	4.4	7
47	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
48	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
49	Resurfacing processes constrained by crater distribution on Ryugu. <i>Icarus</i> , 2022, 377, 114911.	2.5	6
50	High-resolution observations of bright boulders on asteroid Ryugu: 2. Spectral properties. <i>Icarus</i> , 2021, 369, 114591.	2.5	5
51	YORP Effect on Asteroid 162173 Ryugu: Implications for the Dynamical History. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, e2021JE006863.	3.6	4
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	Alignment determination of the Hayabusa2 laser altimeter (LIDAR). <i>Earth, Planets and Space</i> , 2021, 73, .	2.5	3
54	Spectrophotometric Properties of 162173 Ryugu's Surface from the NIRS3 Opposition Observations. <i>Planetary Science Journal</i> , 2021, 2, 178.	3.6	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	Sensitivity degradation of optical navigation camera and attempts for dust removal. , 2022, , 415-431.		1
58	LOTUS: wide-field monitoring nanosatellite for finding long-period transiting planets. , 2020, , .		0