

Tatsuhiko Michikami

List of Publications by Year in descending order

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Version: 2024-02-01

41
papers

2,984
citations

279798

23
h-index

289244

40
g-index

45
all docs

45
docs citations

45
times ranked

1610
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	Regolith Migration and Sorting on Asteroid Itokawa. <i>Science</i> , 2007, 316, 1011-1014.	12.6	271
4	Three-Dimensional Structure of Hayabusa Samples: Origin and Evolution of Itokawa Regolith. <i>Science</i> , 2011, 333, 1125-1128.	12.6	249
5	Detailed Images of Asteroid 25143 Itokawa from Hayabusa. <i>Science</i> , 2006, 312, 1341-1344.	12.6	234
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	Size-frequency statistics of boulders on global surface of asteroid 25143 Itokawa. <i>Earth, Planets and Space</i> , 2008, 60, 13-20.	2.5	121
9	Boulder size and shape distributions on asteroid Ryugu. <i>Icarus</i> , 2019, 331, 179-191.	2.5	107
10	Highly porous nature of a primitive asteroid revealed by thermal imaging. <i>Nature</i> , 2020, 579, 518-522.	27.8	100
11	Samples returned from the asteroid Ryugu are similar to Ivuna-type carbonaceous meteorites. <i>Science</i> , 2023, 379, .	12.6	97
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	On the origin and evolution of the asteroid Ryugu: A comprehensive geochemical perspective. <i>Proceedings of the Japan Academy Series B: Physical and Biological Sciences</i> , 2022, 98, 227-282.	3.8	77
14	A survey of possible impact structures on 25143 Itokawa. <i>Icarus</i> , 2009, 200, 486-502.	2.5	75
15	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
16	Ejecta velocity distribution for impact cratering experiments on porous and low strength targets. <i>Planetary and Space Science</i> , 2007, 55, 70-88.	1.7	58
17	The shape distribution of boulders on Asteroid 25143 Itokawa: Comparison with fragments from impact experiments. <i>Icarus</i> , 2010, 207, 277-284.	2.5	52
18	Fragment shapes in impact experiments ranging from cratering to catastrophic disruption. <i>Icarus</i> , 2016, 264, 316-330.	2.5	43

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19	Collisional history of Ryugu's parent body from bright surface boulders. <i>Nature Astronomy</i> , 2021, 5, 39-45.	10.1	42
20	Asteroid Ryugu before the Hayabusa2 encounter. <i>Progress in Earth and Planetary Science</i> , 2018, 5, .	3.0	39
21	Impact process of boulders on the surface of asteroid 25143 Itokawa's fragments from collisional disruption. <i>Earth, Planets and Space</i> , 2008, 60, 7-12.	2.5	36
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	Macroporosity and Grain Density of Rubble Pile Asteroid (162173) Ryugu. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2020JE006519.	3.6	27
24	Boulder sizes and shapes on asteroids: A comparative study of Eros, Itokawa and Ryugu. <i>Icarus</i> , 2021, 357, 114282.	2.5	22
25	Anisotropic Ejection from Active Asteroid P/2010 A2: An Implication of Impact Shattering on an Asteroid. <i>Astronomical Journal</i> , 2017, 153, 228.	4.7	20
26	Influence of petrographic textures on the shapes of impact experiment fine fragments measuring several tens of microns: Comparison with Itokawa regolith particles. <i>Icarus</i> , 2018, 302, 109-125.	2.5	17
27	Hayabusa2 Landing Site Selection: Surface Topography of Ryugu and Touchdown Safety. <i>Space Science Reviews</i> , 2020, 216, 1.	8.1	17
28	Ejecta size-velocity relation derived from the distribution of the secondary craters of kilometer-sized craters on Mars. <i>Planetary and Space Science</i> , 2004, 52, 1103-1108.	1.7	13
29	Opposition Observations of 162173 Ryugu: Normal Albedo Map Highlights Variations in Regolith Characteristics. <i>Planetary Science Journal</i> , 2021, 2, 177.	3.6	12
30	Oblique impact cratering experiments in brittle targets: Implications for elliptical craters on the Moon. <i>Planetary and Space Science</i> , 2017, 135, 27-36.	1.7	11
31	Geologic History and Crater Morphology of Asteroid (162173) Ryugu. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, e2020JE006572.	3.6	10
32	Physical, Chemical, and Petrological Characteristics of Chondritic Materials and Their Relationships to Small Solar System Bodies. , 2018, , 59-204.		7
33	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
34	Impact cratering experiments in brittle targets with variable thickness: Implications for deep pit craters on Mars. <i>Planetary and Space Science</i> , 2014, 96, 71-80.	1.7	5
35	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
36	Three-dimensional imaging of crack growth in L chondrites after high-velocity impact experiments. <i>Planetary and Space Science</i> , 2019, 177, 104690.	1.7	5

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37	High-resolution observations of bright boulders on asteroid Ryugu: 2. Spectral properties. <i>Icarus</i> , 2021, 369, 114591.	2.5	5
38	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
39	Shape and Rotational Motion Models for Tumbling and Monolithic Asteroid 2012 TC ₄ : High Time Resolution Light Curve with the Tomo-e Gozen Camera. <i>Astronomical Journal</i> , 2019, 157, 155.	4.7	2
40	High-resolution observations of bright boulders on asteroid Ryugu: 1. Size frequency distribution and morphology. <i>Icarus</i> , 2021, 369, 114529.	2.5	2
41	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