

Takaaki Noguchi

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

75
papers

2,777
citations

29
h-index

52
g-index

77
ext. papers

3,247
ext. citations

6.8
avg. IF

4.2
L-index

#	Paper	IF	Citations
75	Itokawa dust particles: a direct link between S-type asteroids and ordinary chondrites. <i>Science</i> , 2011 , 333, 1113-6	33.3	390
74	Incipient space weathering observed on the surface of Itokawa dust particles. <i>Science</i> , 2011 , 333, 1121-5	33.3	206
73	Three-dimensional structure of Hayabusa samples: origin and evolution of Itokawa regolith. <i>Science</i> , 2011 , 333, 1125-8	33.3	201
72	Chondrulelike objects in short-period comet 81P/Wild 2. <i>Science</i> , 2008 , 321, 1664-7	33.3	195
71	Oxygen isotopic compositions of asteroidal materials returned from Itokawa by the Hayabusa mission. <i>Science</i> , 2011 , 333, 1116-9	33.3	128
70	Space weathered rims found on the surfaces of the Itokawa dust particles. <i>Meteoritics and Planetary Science</i> , 2014 , 49, 188-214	2.8	104
69	Irradiation history of Itokawa regolith material deduced from noble gases in the Hayabusa samples. <i>Science</i> , 2011 , 333, 1128-31	33.3	104
68	Boulder size and shape distributions on asteroid Ryugu. <i>Icarus</i> , 2019 , 331, 179-191	3.8	67
67	Cometary dust in Antarctic ice and snow: Past and present chondritic porous micrometeorites preserved on the Earth's surface. <i>Earth and Planetary Science Letters</i> , 2015 , 410, 1-11	5.3	63
66	The global accretion rate of extraterrestrial materials in the last glacial period estimated from the abundance of micrometeorites in Antarctic glacier ice. <i>Earth, Planets and Space</i> , 2004 , 56, 67-79	2.9	60
65	Evaluation of dehydration mechanism during heating of hydrous asteroids based on mineralogical and chemical analysis of naturally and experimentally heated CM chondrites. <i>Earth, Planets and Space</i> , 2008 , 60, 855-864	2.9	59
64	Hayabusa-returned sample curation in the Planetary Material Sample Curation Facility of JAXA. <i>Meteoritics and Planetary Science</i> , 2014 , 49, 135-153	2.8	54
63	Mineralogy of phyllosilicate-rich micrometeorites and comparison with Tagish Lake and Sayama meteorites. <i>Earth and Planetary Science Letters</i> , 2002 , 202, 229-246	5.3	54
62	Thermal alteration of hydrated minerals during hypervelocity capture to silica aerogel at the flyby speed of Stardust. <i>Meteoritics and Planetary Science</i> , 2007 , 42, 357-372	2.8	52
61	Mineralogy and noble-gas signatures of the carbonate-rich lithology of the Tagish Lake carbonaceous chondrite: evidence for an accretionary breccia. <i>Earth and Planetary Science Letters</i> , 2003 , 207, 83-101	5.3	50
60	Bulk mineralogy of individual micrometeorites determined by X-ray diffraction analysis and transmission electron microscopy. <i>Geochimica Et Cosmochimica Acta</i> , 2001 , 65, 4385-4397	5.5	49
59	Bulk mineralogy and three-dimensional structures of individual Stardust particles deduced from synchrotron X-ray diffraction and microtomography analysis. <i>Meteoritics and Planetary Science</i> , 2008 , 43, 247-259	2.8	45

58	Oxygen isotopic and chemical compositions of cosmic spherules collected from the Antarctic ice sheet: Implications for their precursor materials. <i>Geochimica Et Cosmochimica Acta</i> , 2005 , 69, 5789-5804	5.5	45
57	Hayabusa2 Sampler: Collection of Asteroidal Surface Material. <i>Space Science Reviews</i> , 2017 , 208, 81-106	7.5	44
56	Bulk mineralogical changes of hydrous micrometeorites during heating in the upper atmosphere at temperatures below 1000 °C. <i>Meteoritics and Planetary Science</i> , 2006 , 41, 1095-1114	2.8	43
55	Analytical dual-energy microtomography: A new method for obtaining three-dimensional mineral phase images and its application to Hayabusa samples. <i>Geochimica Et Cosmochimica Acta</i> , 2013 , 116, 5-16	5.5	41
54	Deep-sea record of impact apparently unrelated to mass extinction in the Late Triassic. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 19134-9	11.5	41
53	Stardust in Antarctic micrometeorites. <i>Meteoritics and Planetary Science</i> , 2008 , 43, 1287-1298	2.8	38
52	Fayalite in the Vigarano CV3 carbonaceous chondrite: Occurrences, formation age and conditions. <i>Earth and Planetary Science Letters</i> , 2009 , 287, 320-328	5.3	36
51	Three-dimensional microstructure of samples recovered from asteroid 25143 Itokawa: Comparison with LL5 and LL6 chondrite particles. <i>Meteoritics and Planetary Science</i> , 2014 , 49, 172-187	2.8	35
50	Preliminary organic compound analysis of microparticles returned from Asteroid 25143 Itokawa by the Hayabusa mission. <i>Geochemical Journal</i> , 2012 , 46, 61-72	0.9	32
49	Variation of mineralogy and organic material during the early stages of aqueous activity recorded in Antarctic micrometeorites. <i>Geochimica Et Cosmochimica Acta</i> , 2017 , 208, 119-144	5.5	31
48	Formation of an ultracarbonaceous Antarctic micrometeorite through minimal aqueous alteration in a small porous icy body. <i>Geochimica Et Cosmochimica Acta</i> , 2017 , 214, 172-190	5.5	31
47	Surface and internal structures of a space-weathered rim of an Itokawa regolith particle. <i>Icarus</i> , 2015 , 257, 230-238	3.8	29
46	Oxygen three-isotope ratios of silicate particles returned from asteroid Itokawa by the Hayabusa spacecraft: A strong link with equilibrated LL chondrites. <i>Earth and Planetary Science Letters</i> , 2013 , 379, 127-136	5.3	29
45	Intrusion of UHP metamorphic rocks into the upper crust of Kyrgyzian Tien-Shan: P-T path and metamorphic age of the Makbal Complex. <i>Journal of Mineralogical and Petrological Sciences</i> , 2010 , 105, 233-250	0.9	28
44	Hayabusa2 Sample Catcher and Container: Metal-Seal System for Vacuum Encapsulation of Returned Samples with Volatiles and Organic Compounds Recovered from C-Type Asteroid Ryugu. <i>Space Science Reviews</i> , 2017 , 208, 107-124	7.5	27
43	Laihunite and jarosite in the Yamato 00 nakhlites: Alteration products on Mars?. <i>Journal of Geophysical Research</i> , 2009 , 114, n/a-n/a		27
42	Infrared spectroscopic taxonomy for carbonaceous chondrites from speciation of hydrous components. <i>Meteoritics and Planetary Science</i> , 2005 , 40, 71-86	2.8	26
41	Evaluation of mineralogical alteration of micrometeoroid analog materials captured in aerogel. <i>Advances in Space Research</i> , 2004 , 34, 2299-2304	2.4	22

40	Crystallization Experiments on Amorphous Silicates with Chondritic Composition: Quantitative Formulation of the Crystallization. <i>Astrophysical Journal</i> , 2007 , 668, 285-293	4.7	21
39	Iron whiskers on asteroid Itokawa indicate sulfide destruction by space weathering. <i>Nature Communications</i> , 2020 , 11, 1117	17.4	17
38	Mineral chemistry of MUSES-C Regio inferred from analysis of dust particles collected from the first- and second-touchdown sites on asteroid Itokawa. <i>Meteoritics and Planetary Science</i> , 2014 , 49, 215-227	2.8	17
37	Surface morphological features of boulders on Asteroid 25143 Itokawa. <i>Icarus</i> , 2010 , 206, 319-326	3.8	17
36	Preliminary analysis of the Hayabusa2 samples returned from C-type asteroid Ryugu. <i>Nature Astronomy</i> , 2022 , 6, 214-220	12.1	15
35	Mineralogy of four Itokawa particles collected from the first touchdown site. <i>Earth, Planets and Space</i> , 2014 , 66, 124	2.9	14
34	A new variant of saponite-rich micrometeorites recovered from recent Antarctic snowfall. <i>Meteoritics and Planetary Science</i> , 2010 , 45, 220-237	2.8	14
33	Two extraterrestrial dust horizons found in the Dome Fuji ice core, East Antarctica. <i>Earth and Planetary Science Letters</i> , 2010 , 289, 287-297	5.3	14
32	Glass veins in the unequilibrated eucrite Yamato 82202. <i>Geochimica Et Cosmochimica Acta</i> , 2005 , 69, 1883-1898	14	
31	A chondrule-like object captured by space-exposed aerogel on the international space station. <i>Earth and Planetary Science Letters</i> , 2011 , 309, 198-206	5.3	13
30	Multiple Formation of Chondrules in the Early Solar System: Chronology of a Compound Al-rich Chondrule. <i>Astrophysical Journal</i> , 2007 , 656, L29-L32	4.7	13
29	Formation history of Cl-like phyllosilicate-rich clasts in the Tsukuba meteorite inferred from mineralogy and noble gas signatures. <i>Earth and Planetary Science Letters</i> , 2003 , 212, 321-336	5.3	13
28	The discovery of silicon oxide nanoparticles in space-weathered of Apollo 15 lunar soil grains. <i>Icarus</i> , 2018 , 303, 47-52	3.8	12
27	Interior textures, chemical compositions, and noble gas signatures of Antarctic cosmic spherules: Possible sources of spherules with long exposure ages. <i>Meteoritics and Planetary Science</i> , 2010 , 45, 1320-1339	2.8	10
26	CRYSTALLIZATION EXPERIMENTS ON AMORPHOUS MAGNESIUM SILICATE. II. EFFECT OF STACKING FAULTS ON INFRARED SPECTRA OF ENSTATITE. <i>Astrophysical Journal</i> , 2009 , 698, 1903-1906	4.7	10
25	Mineralogy and noble gas isotopes of micrometeorites collected from Antarctic snow. <i>Earth, Planets and Space</i> , 2015 , 67,	2.9	9
24	Sylvite and halite on particles recovered from 25143 Itokawa: A preliminary report. <i>Meteoritics and Planetary Science</i> , 2014 , 49, 1305-1314	2.8	9
23	Film device to visualize UV irradiation. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2004 , 163, 271-276	4.7	7

22	Kinetics of evaporation of forsterite in vacuum. <i>American Mineralogist</i> , 2012 , 97, 80-99	2.9	6
21	Physical, Chemical, and Petrological Characteristics of Chondritic Materials and Their Relationships to Small Solar System Bodies 2018 , 59-204		5
20	A Miocene impact ejecta layer in the pelagic Pacific Ocean. <i>Scientific Reports</i> , 2019 , 9, 16111	4.9	5
19	Crystallization temperature determination of Itokawa particles by plagioclase thermometry with X-ray diffraction data obtained by a high-resolution synchrotron Gandolfi camera. <i>Meteoritics and Planetary Science</i> , 2014 , 49, 237-244	2.8	4
18	Single grain noble gas analysis of Antarctic micrometeorites by stepwise heating method with a newly constructed miniature furnace. <i>Earth, Planets and Space</i> , 2011 , 63, 1097-1111	2.9	4
17	Investigation of cutting methods for small samples of Hayabusa and future sample return missions. <i>Meteoritics and Planetary Science</i> , 2014 , 49, 1186-1201	2.8	3
16	Sample return missions to minor bodies. <i>Astronomy and Geophysics</i> , 2013 , 54, 3.28-3.32	0.2	3
15	Analysis Results of Microparticles Capturer Experiment Samples on Service Module. <i>Journal of Spacecraft and Rockets</i> , 2011 , 48, 867-873	1.5	3
14	Space weathering of iron sulfides in the lunar surface environment. <i>Geochimica Et Cosmochimica Acta</i> , 2021 , 299, 69-84	5.5	3
13	Intermineral oxygen three-isotope systematics of silicate minerals in equilibrated ordinary chondrites. <i>Meteoritics and Planetary Science</i> , 2017 , 52, 2322-2342	2.8	2
12	An Attempt to Identify Minerals in the Itokawa Dust Particles by Micro-Raman Spectroscopy. <i>Bunseki Kagaku</i> , 2012 , 61, 299-310	0.2	2
11	An Another Protocol to Make Sulfur Embedded Ultrathin Sections of Extraterrestrial Small Samples. <i>Life</i> , 2020 , 10,	3	2
10	Application of the Quantitative-Phase and Crystal-Structure Simultaneous Analysis to the X-ray Diffraction Data Obtained by Synchrotron Gandolfi Camera System. <i>AIP Conference Proceedings</i> , 2007 ,	0	1
9	Space Weathering of the ChangE-5 Lunar Sample From a Mid-High Latitude Region on the Moon. <i>Geophysical Research Letters</i> , 2022 , 49,	4.9	1
8	Hayabusa2 Sampler: Collection of Asteroidal Surface Material 2017 , 81-106		0
7	Hayabusa2 Sample Catcher and Container: Metal-Seal System for Vacuum Encapsulation of Returned Samples with Volatiles and Organic Compounds Recovered from C-Type Asteroid Ryugu 2016 , 107-124		0
6	Mineralogy of fine-grained matrix, fine-grained rim, chondrule rim, and altered mesostasis of a chondrule in Asuka 12169, one of the least altered CM chondrites. <i>Polar Science</i> , 2021 , 100727	2.3	0
5	Nanoscale mineralogy and organic structure in Orgueil (CI) and EET 92042 (CR) carbonaceous chondrites studied with AFM-IR spectroscopy. <i>Meteoritics and Planetary Science</i> , 2022 , 57, 3-21	2.8	0

4	Micrometeorites in Antarctic ice detected by Ir: estimation of 120k year old accretion rate. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2012 , 291, 213-216	1.5
3	Mineralogical studies of fine-grained extraterrestrial materials ~Indeed, all small things are most adorable~. <i>Ganseki Kobutsu Kagaku</i> , 2020 , 49, 1-14	0.1
2	Application of Multi-Disciplinary Analyses of Planetary Materials for Crystal Evaluation. <i>Nihon Kessho Gakkaishi</i> , 2011 , 53, 70-75	0
1	Three-axial shape distributions of pebbles, cobbles and boulders smaller than a few meters on asteroid Ryugu. <i>Icarus</i> , 2022 , 115007	3.8