Sasaki Sho

List of Publications by Year
in descending order

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71 papers	4,737 citations	172457 29 h-index	102487 66 g-index
73 all docs	73 docs citations	73 times ranked	2913 citing authors

#	Article	IF	Citations
1	Martian moons exploration MMX: sample return mission to Phobos elucidating formation processes of habitable planets. Earth, Planets and Space, 2022, 74, .	2.5	51
2	Three-axial shape distributions of pebbles, cobbles and boulders smaller than a few meters on asteroid Ryugu. Icarus, 2022, 381, 115007.	2.5	1
3	Collisional history of Ryuguâ€™s parent body from bright surface boulders. Nature Astronomy, 2021, 5, 39-45.	10.1	42
4	Alignment determination of the Hayabusa2 laser altimeter (LIDAR). Earth, Planets and Space, 2021, 73, .	2.5	3
5	UV-visible-infrared spectral survey of Antarctic carbonaceous chondrite chips. Polar Science, 2021, 29, 100723.	1.2	4
6	Spectrally blue hydrated parent body of asteroid (162173) Ryugu. Nature Communications, 2021, 12, 5837.	12.8	23
7	YORP Effect on Asteroid 162173 Ryugu: Implications for the Dynamical History. Journal of Geophysical Research E: Planets, 2021, 126, e2021JE006863.	3.6	4
8	Surface environment of Phobos and Phobos simulant UTPS. Earth, Planets and Space, 2021, 73, .	2.5	15
9	Mercury Dust Monitor (MDM) Onboard the Mio Orbiter of the BepiColombo Mission. Space Science Reviews, 2020, 216, 1.	8.1	15
10	Sample collection from asteroid (162173) Ryugu by Hayabusa2: Implications for surface evolution. Science, 2020, 368, 654-659.	12.6	158
11	Space Weathering Simulation with Low-energy Laser Irradiation of Murchison CM Chondrite for Reproducing Micrometeoroid Bombardments on C-type Asteroids. Astrophysical Journal Letters, 2020, 890, L23.	8.3	27
12	Dynamic precise orbit determination of Hayabusa2 using laser altimeter (LIDAR) and image tracking data sets. Earth, Planets and Space, 2020, 72, .	2.5	11
13	Q-type asteroids: Possibility of non-fresh weathered surfaces. Publication of the Astronomical Society of Japan, 2019, 71, .	2.5	10
14	Density distribution of asteroid 25143 Itokawa based on smooth terrain shape. Planetary and Space Science, 2019, 174, 32-42.	1.7	18
15	The geomorphology, color, and thermal properties of Ryugu: Implications for parent-body processes. Science, 2019, 364, 252.	12.6	313
16	Science Objectives of the Ganymede Laser Altimeter (GALA) for the JUICE Mission. Transactions of the Japan Society for Aeronautical and Space Sciences Aerospace Technology Japan, 2019, 17, 234-243.	0.2	4
17	Estimation of Interior Density Distribution for Small Bodies: The Case of Asteroid Itokawa. Transactions of the Japan Society for Aeronautical and Space Sciences Aerospace Technology Japan, 2019, 17, 270-275.	0.2	1
18	In situ observations of dust particles in Martian dust belts using a large-sensitive-area dust sensor. Planetary and Space Science, 2018, 156, 41-46.	1.7	14

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19	Spectral decomposition of asteroid Itokawa based on principal component analysis. Icarus, 2018, 299, 386-395.	2.5	7
20	Internal structure of the Moon inferred from Apollo seismic data and selenodetic data from GRAIL and LLR. Geophysical Research Letters, 2015, 42, 7351-7358.	4.0	88
21	Pulse-laser irradiation experiments of Murchison CM2 chondrite for reproducing space weathering on C-type asteroids. Icarus, 2015, 254, 135-143.	2.5	72
22	Lunar mare volcanism: lateral heterogeneities in volcanic activity and relationship with crustal structure. Geological Society Special Publication, 2015, 401, 127-138.	1.3	2
23	Effects of a physical librations of the moon caused by a liquid core, and determination of the fourth mode of a free libration. Solar System Research, 2014, 48, 403-419.	0.7	12
24	Mineralogy and petrography of C asteroid regolith: The Sutter's Mill <scp>CM</scp> meteorite. Meteoritics and Planetary Science, 2014, 49, 1997-2016.	1.6	57
25	Error determination of lunar interior structure by lunar geodetic data on seismic restriction. Physics of the Earth and Planetary Interiors, 2014, 231, 56-64.	1.9	9
26	Space weathering of silicate regoliths with various FeO contents: New insights from laser irradiation experiments and theoretical spectral simulations. Icarus, 2014, 235, 187-206.	2.5	26
27	Recent Status of SELENE-2/VLBI Instrument. Transactions of the Japan Society for Aeronautical and Space Sciences Aerospace Technology Japan, 2014, 12, Pk_13-Pk_19.	0.2	1
28	Lunar laser topography by LALT on board the KAGUYA lunar explorer â€“ Operational history, new topographic data, peak height analysis of laser echo pulses. Advances in Space Research, 2013, 52, 262-271.	2.6	12
29	Local lunar gravity field analysis over the South Poleâ€Aitken basin from SELENE farside tracking data. Journal of Geophysical Research, 2012, 117, .	3.3	5
30	Development of a digital zenith telescope for advanced astrometry. Science China: Physics, Mechanics and Astronomy, 2012, 55, 723-732.	5.1	16
31	Anomalous Moscoviense basin: Single oblique impact or double impact origin?. Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	22
32	The widespread occurrence of high-calcium pyroxene in bright-ray craters on the Moon and implications for lunar-crust composition. Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	18
33	Visible and near-infrared spectral survey of Martian meteorites stored at the National Institute of Polar Research. Polar Science, 2011, 5, 337-344.	1.2	6
34	Effect of Phase Pattern of Antennas Onboard Flying Spin Satellites on Doppler Measurements. IEEE Transactions on Aerospace and Electronic Systems, 2011, 47, 405-419.	4.7	3
35	Lunar photometric properties at wavelengths 0.5â€“1.6 Î¼m acquired by SELENE Spectral Profiler and their dependency on local albedo and latitudinal zones. Icarus, 2011, 215, 639-660.	2.5	86
36	Secondary chaotic terrain formation in the higher outflow channels of southern circum-Chryse, Mars. Icarus, 2011, 213, 150-194.	2.5	17

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37	A future observational plan of dust particles around the Moon by LDM (Lunar Dust Monitor) onboard the orbiter of the next Japanese lunar mission. Earth, Planets and Space, 2011, 63, 1113-1117.	2.5	0
38	Accuracy assessment of lunar topography models. Earth, Planets and Space, 2011, 63, 15-23.	2.5	9
39	Overview of Differential VLBI Observations of Lunar Orbiters in SELENE (Kaguya) for Precise Orbit Determination and Lunar Gravity Field Study. Space Science Reviews, 2010, 154, 123-144.	8.1	9
40	Development of the Mercury dust monitor (MDM) onboard the BepiColombo mission. Planetary and Space Science, 2010, 58, 108-115.	1.7	32
41	Surface morphological features of boulders on Asteroid 25143 Itokawa. Icarus, 2010, 206, 319-326.	2.5	22
42	Same-beam VLBI observations of SELENE for improving lunar gravity field model. Radio Science, 2010, 45, n/a-n/a.	1.6	19
43	The sedimentology and dynamics of crater-affiliated wind streaks in western Arabia Terra, Mars and Patagonia, Argentina. Geomorphology, 2010, 121, 30-54.	2.6	55
44	Lunar Global Shape and Polar Topography Derived from Kaguya-LALT Laser Altimetry. Science, 2009, 323, 897-900.	12.6	263
45	LAPLACE: A mission to Europa and the Jupiter System for ESAâ€™s Cosmic Vision Programme. Experimental Astronomy, 2009, 23, 849-892.	3.7	38
46	A survey of possible impact structures on 25143 Itokawa. Icarus, 2009, 200, 486-502.	2.5	75
47	Long-Lived Volcanism on the Lunar Farside Revealed by SELENE Terrain Camera. Science, 2009, 323, 905-908.	12.6	133
48	Farside Gravity Field of the Moon from Four-Way Doppler Measurements of SELENE (Kaguya). Science, 2009, 323, 900-905.	12.6	169
49	Crustal thickness of the Moon: Implications for farside basin structures. Geophysical Research Letters, 2009, 36, .	4.0	102
50	Observation of the lunar topography by the laser altimeter LALT on board Japanese lunar explorer SELENE. Advances in Space Research, 2008, 42, 317-322.	2.6	36
51	Illumination conditions at the lunar polar regions by KAGUYA(SELENE) laser altimeter. Geophysical Research Letters, 2008, 35, .	4.0	86
52	Measurement of incident position of hypervelocity particles on piezoelectric lead zirconate titanate detector. Review of Scientific Instruments, 2008, 79, 043303.	1.3	1
53	Measurement of temperature after hypervelocity collision of microparticles in the range from 10 to 40 km/s. Applied Physics Letters, 2008, 93, .	3.3	9
54	Regolith Migration and Sorting on Asteroid Itokawa. Science, 2007, 316, 1011-1014.	12.6	271

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55	Nearâ€Infrared Extinction in the Coalsack Globule 2. Astrophysical Journal, 2007, 658, 1114-1118.	4.5	14
56	Significance of the gravitational relaxation on a plume-driven surface uplift: Dynamic calculations using the Boundary Element Method. Environmental Modelling and Software, 2007, 22, 1482-1487.	4.5	0
57	Formation and disruption of aquifers in southwestern Chryse Planitia, Mars. Icarus, 2007, 191, 545-567.	2.5	38
58	The Rubble-Pile Asteroid Itokawa as Observed by Hayabusa. Science, 2006, 312, 1330-1334.	12.6	761
59	Headward growth of chasmata by volatile outbursts, collapse, and drainage: Evidence from Ganges chaos, Mars. Geophysical Research Letters, 2006, 33, n/a-n/a.	4.0	27
60	Developing space weathering on the asteroid 25143 Itokawa. Nature, 2006, 443, 56-58.	27.8	97
61	A newborn asteroid 832 Karin with old and new surfaces â€“ SUBARU spectroscopy. Advances in Space Research, 2006, 38, 1995-1999.	2.6	2
62	Detailed Images of Asteroid 25143 Itokawa from Hayabusa. Science, 2006, 312, 1341-1344.	12.6	234
63	Pole and Global Shape of 25143 Itokawa. Science, 2006, 312, 1347-1349.	12.6	104
64	Touchdown of the Hayabusa Spacecraft at the Muses Sea on Itokawa. Science, 2006, 312, 1350-1353.	12.6	349
65	DIFFERENCE IN DEGREE OF SPACE WEATHERING ON NEWBORN ASTEROID KARIN. , 2006, , 331-336.		3
66	Control of impact crater fracture systems on subsurface hydrology, ground subsidence, and collapse, Mars. Journal of Geophysical Research, 2005, 110, .	3.3	44
67	Nature and hydrological relevance of the Shalbatana complex underground cavernous system. Geophysical Research Letters, 2003, 30, .	4.0	42
68	Microparticle acceleration for hypervelocity experiments by A 3.75MV van de Graaff accelerator and a 100KV electrostatic accelerator in Japan. International Journal of Impact Engineering, 2001, 26, 299-308.	5.0	11
69	Production of iron nanoparticles by laser irradiation in a simulation of lunar-like space weathering. Nature, 2001, 410, 555-557.	27.8	359
70	Simulation of space weathering of planet-forming materials: Nanosecond pulse laser irradiation and proton implantation on olivine and pyroxene samples. Earth, Planets and Space, 1999, 51, 1255-1265.	2.5	150
71	Development of a realtime detector to hypervelocity microparticles using PZT ceramics. , 0, , .		0