

Sasaki Sho

List of Publications by Year in descending order

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Version: 2024-02-01

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 | The Rubble-Pile Asteroid Itokawa as Observed by Hayabusa. <i>Science</i> , 2006, 312, 1330-1334. | 12.6 | 761 |
| 2 | Production of iron nanoparticles by laser irradiation in a simulation of lunar-like space weathering. <i>Nature</i> , 2001, 410, 555-557. | 27.8 | 359 |
| 3 | Touchdown of the Hayabusa Spacecraft at the Muses Sea on Itokawa. <i>Science</i> , 2006, 312, 1350-1353. | 12.6 | 349 |
| 4 | The geomorphology, color, and thermal properties of Ryugu: Implications for parent-body processes. <i>Science</i> , 2019, 364, 252. | 12.6 | 313 |
| 5 | Regolith Migration and Sorting on Asteroid Itokawa. <i>Science</i> , 2007, 316, 1011-1014. | 12.6 | 271 |
| 6 | Lunar Global Shape and Polar Topography Derived from Kaguya-LALT Laser Altimetry. <i>Science</i> , 2009, 323, 897-900. | 12.6 | 263 |
| 7 | Detailed Images of Asteroid 25143 Itokawa from Hayabusa. <i>Science</i> , 2006, 312, 1341-1344. | 12.6 | 234 |
| 8 | Farside Gravity Field of the Moon from Four-Way Doppler Measurements of SELENE (Kaguya). <i>Science</i> , 2009, 323, 900-905. | 12.6 | 169 |
| 9 | Sample collection from asteroid (162173) Ryugu by Hayabusa2: Implications for surface evolution. <i>Science</i> , 2020, 368, 654-659. | 12.6 | 158 |
| 10 | Simulation of space weathering of planet-forming materials: Nanosecond pulse laser irradiation and proton implantation on olivine and pyroxene samples. <i>Earth, Planets and Space</i> , 1999, 51, 1255-1265. | 2.5 | 150 |
| 11 | Long-Lived Volcanism on the Lunar Farside Revealed by SELENE Terrain Camera. <i>Science</i> , 2009, 323, 905-908. | 12.6 | 133 |
| 12 | Pole and Global Shape of 25143 Itokawa. <i>Science</i> , 2006, 312, 1347-1349. | 12.6 | 104 |
| 13 | Crustal thickness of the Moon: Implications for farside basin structures. <i>Geophysical Research Letters</i> , 2009, 36, . | 4.0 | 102 |
| 14 | Developing space weathering on the asteroid 25143 Itokawa. <i>Nature</i> , 2006, 443, 56-58. | 27.8 | 97 |
| 15 | Internal structure of the Moon inferred from Apollo seismic data and selenodetic data from GRAIL and LLR. <i>Geophysical Research Letters</i> , 2015, 42, 7351-7358. | 4.0 | 88 |
| 16 | Illumination conditions at the lunar polar regions by KAGUYA(SELENE) laser altimeter. <i>Geophysical Research Letters</i> , 2008, 35, . | 4.0 | 86 |
| 17 | Lunar photometric properties at wavelengths 0.5–1.6 μ m acquired by SELENE Spectral Profiler and their dependency on local albedo and latitudinal zones. <i>Icarus</i> , 2011, 215, 639-660. | 2.5 | 86 |
| 18 | A survey of possible impact structures on 25143 Itokawa. <i>Icarus</i> , 2009, 200, 486-502. | 2.5 | 75 |

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|----|---|------|-----------|
| 19 | Pulse-laser irradiation experiments of Murchison CM2 chondrite for reproducing space weathering on C-type asteroids. <i>Icarus</i> , 2015, 254, 135-143. | 2.5 | 72 |
| 20 | Mineralogy and petrography of C asteroid regolith: The Sutter's Mill <scp>CM</scp> meteorite. <i>Meteoritics and Planetary Science</i> , 2014, 49, 1997-2016. | 1.6 | 57 |
| 21 | The sedimentology and dynamics of crater-affiliated wind streaks in western Arabia Terra, Mars and Patagonia, Argentina. <i>Geomorphology</i> , 2010, 121, 30-54. | 2.6 | 55 |
| 22 | Martian moons exploration MMX: sample return mission to Phobos elucidating formation processes of habitable planets. <i>Earth, Planets and Space</i> , 2022, 74, . | 2.5 | 51 |
| 23 | Control of impact crater fracture systems on subsurface hydrology, ground subsidence, and collapse, Mars. <i>Journal of Geophysical Research</i> , 2005, 110, . | 3.3 | 44 |
| 24 | Nature and hydrological relevance of the Shalbatana complex underground cavernous system. <i>Geophysical Research Letters</i> , 2003, 30, . | 4.0 | 42 |
| 25 | Collisional history of Ryugu's parent body from bright surface boulders. <i>Nature Astronomy</i> , 2021, 5, 39-45. | 10.1 | 42 |
| 26 | Formation and disruption of aquifers in southwestern Chryse Planitia, Mars. <i>Icarus</i> , 2007, 191, 545-567. | 2.5 | 38 |
| 27 | LAPLACE: A mission to Europa and the Jupiter System for ESA's Cosmic Vision Programme. <i>Experimental Astronomy</i> , 2009, 23, 849-892. | 3.7 | 38 |
| 28 | Observation of the lunar topography by the laser altimeter LALT on board Japanese lunar explorer SELENE. <i>Advances in Space Research</i> , 2008, 42, 317-322. | 2.6 | 36 |
| 29 | Development of the Mercury dust monitor (MDM) onboard the BepiColombo mission. <i>Planetary and Space Science</i> , 2010, 58, 108-115. | 1.7 | 32 |
| 30 | Headward growth of chasmata by volatile outbursts, collapse, and drainage: Evidence from Ganges chaos, Mars. <i>Geophysical Research Letters</i> , 2006, 33, n/a-n/a. | 4.0 | 27 |
| 31 | Space Weathering Simulation with Low-energy Laser Irradiation of Murchison CM Chondrite for Reproducing Micrometeoroid Bombardments on C-type Asteroids. <i>Astrophysical Journal Letters</i> , 2020, 890, L23. | 8.3 | 27 |
| 32 | Space weathering of silicate regoliths with various FeO contents: New insights from laser irradiation experiments and theoretical spectral simulations. <i>Icarus</i> , 2014, 235, 187-206. | 2.5 | 26 |
| 33 | Spectrally blue hydrated parent body of asteroid (162173) Ryugu. <i>Nature Communications</i> , 2021, 12, 5837. | 12.8 | 23 |
| 34 | Surface morphological features of boulders on Asteroid 25143 Itokawa. <i>Icarus</i> , 2010, 206, 319-326. | 2.5 | 22 |
| 35 | Anomalous Moscoviense basin: Single oblique impact or double impact origin?. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a. | 4.0 | 22 |
| 36 | Same-beam VLBI observations of SELENE for improving lunar gravity field model. <i>Radio Science</i> , 2010, 45, n/a-n/a. | 1.6 | 19 |

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|----|--|-----|-----------|
| 37 | 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 |
| 38 | Density distribution of asteroid 25143 Itokawa based on smooth terrain shape. <i>Planetary and Space Science</i> , 2019, 174, 32-42. | 1.7 | 18 |
| 39 | Secondary chaotic terrain formation in the higher outflow channels of southern circum-Chryse, Mars. <i>Icarus</i> , 2011, 213, 150-194. | 2.5 | 17 |
| 40 | Development of a digital zenith telescope for advanced astrometry. <i>Science China: Physics, Mechanics and Astronomy</i> , 2012, 55, 723-732. | 5.1 | 16 |
| 41 | Mercury Dust Monitor (MDM) Onboard the Mio Orbiter of the BepiColombo Mission. <i>Space Science Reviews</i> , 2020, 216, 1. | 8.1 | 15 |
| 42 | Surface environment of Phobos and Phobos simulant UTPS. <i>Earth, Planets and Space</i> , 2021, 73, . | 2.5 | 15 |
| 43 | Near-Infrared Extinction in the Coalsack Globule 2. <i>Astrophysical Journal</i> , 2007, 658, 1114-1118. | 4.5 | 14 |
| 44 | In situ observations of dust particles in Martian dust belts using a large-sensitive-area dust sensor. <i>Planetary and Space Science</i> , 2018, 156, 41-46. | 1.7 | 14 |
| 45 | Lunar laser topography by LALT on board the KAGUYA lunar explorer –“ Operational history, new topographic data, peak height analysis of laser echo pulses. <i>Advances in Space Research</i> , 2013, 52, 262-271. | 2.6 | 12 |
| 46 | Effects of a physical librations of the moon caused by a liquid core, and determination of the fourth mode of a free libration. <i>Solar System Research</i> , 2014, 48, 403-419. | 0.7 | 12 |
| 47 | Microparticle acceleration for hypervelocity experiments by A 3.75MV van de Graaff accelerator and a 100KV electrostatic accelerator in Japan. <i>International Journal of Impact Engineering</i> , 2001, 26, 299-308. | 5.0 | 11 |
| 48 | Dynamic precise orbit determination of Hayabusa2 using laser altimeter (LIDAR) and image tracking data sets. <i>Earth, Planets and Space</i> , 2020, 72, . | 2.5 | 11 |
| 49 | Q-type asteroids: Possibility of non-fresh weathered surfaces. <i>Publication of the Astronomical Society of Japan</i> , 2019, 71, . | 2.5 | 10 |
| 50 | Measurement of temperature after hypervelocity collision of microparticles in the range from 10 to 40 km/s. <i>Applied Physics Letters</i> , 2008, 93, . | 3.3 | 9 |
| 51 | Overview of Differential VLBI Observations of Lunar Orbiters in SELENE (Kaguya) for Precise Orbit Determination and Lunar Gravity Field Study. <i>Space Science Reviews</i> , 2010, 154, 123-144. | 8.1 | 9 |
| 52 | Accuracy assessment of lunar topography models. <i>Earth, Planets and Space</i> , 2011, 63, 15-23. | 2.5 | 9 |
| 53 | Error determination of lunar interior structure by lunar geodetic data on seismic restriction. <i>Physics of the Earth and Planetary Interiors</i> , 2014, 231, 56-64. | 1.9 | 9 |
| 54 | Spectral decomposition of asteroid Itokawa based on principal component analysis. <i>Icarus</i> , 2018, 299, 386-395. | 2.5 | 7 |

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|----|--|-----|-----------|
| 55 | Visible and near-infrared spectral survey of Martian meteorites stored at the National Institute of Polar Research. <i>Polar Science</i> , 2011, 5, 337-344. | 1.2 | 6 |
| 56 | Local lunar gravity field analysis over the South Pole–Aitken basin from SELENE farside tracking data. <i>Journal of Geophysical Research</i> , 2012, 117, . | 3.3 | 5 |
| 57 | UV-visible-infrared spectral survey of Antarctic carbonaceous chondrite chips. <i>Polar Science</i> , 2021, 29, 100723. | 1.2 | 4 |
| 58 | Science Objectives of the Ganymede Laser Altimeter (GALA) for the JUICE Mission. <i>Transactions of the Japan Society for Aeronautical and Space Sciences Aerospace Technology Japan</i> , 2019, 17, 234-243. | 0.2 | 4 |
| 59 | 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 |
| 60 | Effect of Phase Pattern of Antennas Onboard Flying Spin Satellites on Doppler Measurements. <i>IEEE Transactions on Aerospace and Electronic Systems</i> , 2011, 47, 405-419. | 4.7 | 3 |
| 61 | Alignment determination of the Hayabusa2 laser altimeter (LIDAR). <i>Earth, Planets and Space</i> , 2021, 73, . | 2.5 | 3 |
| 62 | DIFFERENCE IN DEGREE OF SPACE WEATHERING ON NEWBORN ASTEROID KARIN. , 2006, , 331-336. | | 3 |
| 63 | A newborn asteroid 832 Karin with old and new surfaces – SUBARU spectroscopy. <i>Advances in Space Research</i> , 2006, 38, 1995-1999. | 2.6 | 2 |
| 64 | Lunar mare volcanism: lateral heterogeneities in volcanic activity and relationship with crustal structure. <i>Geological Society Special Publication</i> , 2015, 401, 127-138. | 1.3 | 2 |
| 65 | Measurement of incident position of hypervelocity particles on piezoelectric lead zirconate titanate detector. <i>Review of Scientific Instruments</i> , 2008, 79, 043303. | 1.3 | 1 |
| 66 | Recent Status of SELENE-2/MLBI Instrument. <i>Transactions of the Japan Society for Aeronautical and Space Sciences Aerospace Technology Japan</i> , 2014, 12, Pk_13-Pk_19. | 0.2 | 1 |
| 67 | Estimation of Interior Density Distribution for Small Bodies: The Case of Asteroid Itokawa. <i>Transactions of the Japan Society for Aeronautical and Space Sciences Aerospace Technology Japan</i> , 2019, 17, 270-275. | 0.2 | 1 |
| 68 | 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 |
| 69 | Development of a realtime detector to hypervelocity microparticles using PZT ceramics. , 0, , . | | 0 |
| 70 | Significance of the gravitational relaxation on a plume-driven surface uplift: Dynamic calculations using the Boundary Element Method. <i>Environmental Modelling and Software</i> , 2007, 22, 1482-1487. | 4.5 | 0 |
| 71 | A future observational plan of dust particles around the Moon by LDM (Lunar Dust Monitor) onboard the orbiter of the next Japanese lunar mission. <i>Earth, Planets and Space</i> , 2011, 63, 1113-1117. | 2.5 | 0 |