

Shinsuke Abe

List of Publications by Year in descending order

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96
papers

2,940
citations

279701

23
h-index

175177

52
g-index

96
all docs

96
docs citations

96
times ranked

2391
citing authors

#	ARTICLE	IF	CITATIONS
1	The scientific observation campaign of the Hayabusa-2 capsule re-entry. Publication of the Astronomical Society of Japan, 2022, 74, 50-63.	1.0	6
2	Rotational effect as the possible cause of the east-west asymmetric crater rims on Ryugu observed by LIDAR data. Icarus, 2021, 354, 114073.	1.1	5
3	Low dispersion spectra of lunar impact flashes in 2018 Geminids. Planetary and Space Science, 2021, 195, 105131.	0.9	7
4	Thermally altered subsurface material of asteroid (162173) Ryugu. Nature Astronomy, 2021, 5, 246-250.	4.2	47
5	Alignment determination of the Hayabusa2 laser altimeter (LIDAR). Earth, Planets and Space, 2021, 73, .	0.9	3
6	Stray Light Analysis by Ray Tracing Simulation for the Wide-Angle Multiband Camera OROCHI onboard the Martian Moons Exploration (MMX) Spacecraft. Advances in Space Research, 2021, 69, 1236-1236.	1.2	0
7	Design of telescopic nadir imager for geomorphology (TENGOO) and observation of surface reflectance by optical chromatic imager (OROCHI) for the Martian Moons Exploration (MMX). Earth, Planets and Space, 2021, 73, .	0.9	12
8	Improving Hayabusa2 trajectory by combining LIDAR data and a shape model. Icarus, 2020, 338, 113574.	1.1	16
9	Relationship between radar cross section and optical magnitude based on radar and optical simultaneous observations of faint meteors. Planetary and Space Science, 2020, 194, 105011.	0.9	4
10	Sodium variation in Geminid meteoroids from (3200) Phaethon. Planetary and Space Science, 2020, 194, 105040.	0.9	12
11	Full rotationally phase-resolved visible reflectance spectroscopy of 3200 Phaethon. Planetary and Space Science, 2020, 191, 104940.	0.9	4
12	An experimental study of the impact flash: The relationship between luminous efficiency and vacuum level. Planetary and Space Science, 2020, 187, 104921.	0.9	3
13	Mission to Earthâ€™Moon Lagrange Point by a 6U CubeSat: EQUULEUS. IEEE Aerospace and Electronic Systems Magazine, 2020, 35, 30-44.	2.3	28
14	Dynamic precise orbit determination of Hayabusa2 using laser altimeter (LIDAR) and image tracking data sets. Earth, Planets and Space, 2020, 72, .	0.9	11
15	New Evidence for a Physical Link between Asteroids (155140) 2005 UD and (3200) Phaethon*. Planetary Science Journal, 2020, 1, 15.	1.5	21
16	Development of On-board Image Processing Algorithm to Detect Lunar Impact Flashes for DELPHINUS. Transactions of the Japan Society for Aeronautical and Space Sciences, 2020, 63, 265-271.	0.4	1
17	Triple Range Imager and POLarimeter (TRIPOL)â€™a compact and economical optical imaging polarimeter for small telescopes. Research in Astronomy and Astrophysics, 2019, 19, 136.	0.7	3
18	Space-based Observation of Lunar Impact Flashes. Transactions of the Japan Society for Aeronautical and Space Sciences Aerospace Technology Japan, 2019, 17, 315-320.	0.1	3

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19	The geomorphology, color, and thermal properties of Ryugu: Implications for parent-body processes. <i>Science</i> , 2019, 364, 252.	6.0	313
20	Ultra-violet imaging of the night-time earth by EUSO-Balloon towards space-based ultra-high energy cosmic ray observations. <i>Astroparticle Physics</i> , 2019, 111, 54-71.	1.9	18
21	Turbulence simulation taking account of inhomogeneity of neutral density in linear devices. <i>Physics of Plasmas</i> , 2018, 25, .	0.7	7
22	EUSO-TA “ First results from a ground-based EUSO telescope. <i>Astroparticle Physics</i> , 2018, 102, 98-111.	1.9	27
23	First observations of speed of light tracks by a fluorescence detector looking down on the atmosphere. <i>Journal of Instrumentation</i> , 2018, 13, P05023-P05023.	0.5	15
24	Albedo Observation by Hayabusa2 LIDAR: Instrument Performance and Error Evaluation. <i>Space Science Reviews</i> , 2017, 208, 49-64.	3.7	13
25	Design of a tritium gas cell for beta-ray induced X-ray spectrometry using Monte Carlo simulation. <i>Fusion Engineering and Design</i> , 2017, 119, 12-16.	1.0	9
26	Meteor studies in the framework of the JEM-EUSO program. <i>Planetary and Space Science</i> , 2017, 143, 245-255.	0.9	17
27	Tritium Counting Using a Europium Coordination Complex. <i>Fusion Science and Technology</i> , 2017, 71, 496-500.	0.6	1
28	Advanced β -ray-induced X-ray spectrometry for non-destructive measurement of tritium retained in fusion related materials. <i>Fusion Engineering and Design</i> , 2016, 109-111, 1569-1573.	1.0	2
29	Tracking of tritium charged into stainless steel by BIXS. <i>Fusion Engineering and Design</i> , 2016, 113, 250-254.	1.0	6
30	Evaluation of Artificial Meteor Sources with Arc Heater Wind Tunnel. <i>Transactions of the Japan Society for Aeronautical and Space Sciences Aerospace Technology Japan</i> , 2016, 14, Pf_119-Pf_123.	0.1	0
31	Effects of Internal Bremsstrahlung on Tritium Profile Reconstruction in BIXS Measurements. <i>Fusion Science and Technology</i> , 2016, 70, 461-467.	0.6	4
32	Development of artificial meteor for observation of upper atmosphere. <i>Acta Astronautica</i> , 2016, 121, 172-178.	1.7	0
33	Tritium desorption and tritium removal from tungsten pre-irradiated with helium. <i>Fusion Engineering and Design</i> , 2016, 109-111, 1179-1182.	1.0	6
34	Albedo Observation by Hayabusa2 LIDAR: Instrument Performance and Error Evaluation. , 2016, , 49-64.		0
35	Plasma distribution of Comet ISON (C/2012 S1) observed using the radio scintillation method. <i>Icarus</i> , 2015, 252, 301-310.	1.1	4
36	Anomalous geomagnetic variations associated with the volcanic activity of the Mayon volcano, Philippines during 2009–2010. <i>NRIAG Journal of Astronomy and Geophysics</i> , 2014, 3, 130-136.	0.5	4

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37	FAST ROTATION OF A SUBKILOMETER-SIZED NEAR-EARTH OBJECT 2011 XA ₃ . <i>Astronomical Journal</i> , 2014, 147, 121.	1.9	6
38	Tritium retention properties of tungsten, graphite and co-deposited carbon film. <i>Fusion Engineering and Design</i> , 2014, 89, 1516-1519.	1.0	8
39	OPTICAL PROPERTIES OF (162173) 1999 JU3: IN PREPARATION FOR THE JAXA HAYABUSA 2 SAMPLE RETURN MISSION. <i>Astrophysical Journal</i> , 2014, 792, 74.	1.6	45
40	Tritium Retention on the Surface of Stainless Steel Samples Fixed on the Plasma-Facing Wall in LHD. <i>Plasma and Fusion Research</i> , 2014, 9, 3405135-3405135.	0.3	5
41	Rotational characterization of Hayabusa II target Asteroid (162173) 1999 JU3. <i>Icarus</i> , 2013, 224, 24-31.	1.1	57
42	The Pan-STARRS Moving Object Processing System. <i>Publications of the Astronomical Society of the Pacific</i> , 2013, 125, 357-395.	1.0	124
43	The signature of the 2011 Tohoku mega earthquake on the geomagnetic field measurements in Japan. <i>NRIAG Journal of Astronomy and Geophysics</i> , 2013, 2, 185-195.	0.5	14
44	Trajectory Estimation of the Hayabusa Spacecraft During Atmospheric Disintegration. <i>Journal of Spacecraft and Rockets</i> , 2013, 50, 326-336.	1.3	15
45	Tritium Retention on Stainless Steel Surface Exposed to Plasmas in LHD (II). <i>Plasma and Fusion Research</i> , 2013, 8, 2405014-2405014.	0.3	6
46	DIVISION III: COMMISSION 22: METEORS, METEORITES AND INTERPLANETARY DUST. <i>Proceedings of the International Astronomical Union</i> , 2013, 10, 120-123.	0.0	1
47	Phaethon-Gemind complex by Pan-STARRS. <i>Proceedings of the International Astronomical Union</i> , 2012, 10, 138-138.	0.0	0
48	Video Observation of the Leonids 2001 Activity. <i>Publication of the Astronomical Society of Japan</i> , 2012, 64, .	1.0	1
49	OBSERVATIONAL AND DYNAMICAL CHARACTERIZATION OF MAIN-BELT COMET P/2010 R2 (La Sagra). <i>Astronomical Journal</i> , 2012, 143, 104.	1.9	46
50	Trajectory Estimation of the Hayabusa Spacecraft During Atmospheric Disintegration. , 2012, , .		0
51	DISCOVERY OF MAIN-BELT COMET P/2006 VW ₁₃₉ BY Pan-STARRS1. <i>Astrophysical Journal Letters</i> , 2012, 748, L15.	3.0	49
52	Searching for the first near-Earth object family. <i>Icarus</i> , 2012, 220, 1050-1063.	1.1	28
53	Numerical Reconstruction of HAYABUSA Sample Return Capsule Flight Environments. , 2011, , .		11
54	Photometric observations of 107P/Wilson-Harrington. <i>Icarus</i> , 2011, 215, 17-26.	1.1	11

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55	An Overview of JAXA's Ground-Observation Activities for HAYABUSA Reentry. Publication of the Astronomical Society of Japan, 2011, 63, 961-969.	1.0	21
56	Photographic and Radiometric Observations of the HAYABUSA Re-Entry. Publication of the Astronomical Society of Japan, 2011, 63, 1003-1009.	1.0	12
57	Do Meteoroids Originating from Near-Earth Asteroid (25143) Itokawa Exist?. Publication of the Astronomical Society of Japan, 2011, 63, L73-L77.	1.0	2
58	Near-Ultraviolet and Visible Spectroscopy of HAYABUSA Spacecraft Re-Entry. Publication of the Astronomical Society of Japan, 2011, 63, 1011-1021.	1.0	17
59	Trajectory of HAYABUSA Reentry Determined from Multisite TV Observations. Publication of the Astronomical Society of Japan, 2011, 63, 947-953.	1.0	15
60	Models for the Origin of the Quadrantids. Earth, Moon and Planets, 2010, 106, 55-65.	0.3	0
61	An active-clamped full-wave zero-current-switched quasi-resonant boost converter in power factor correction application. , 2010, , .		3
62	Itokawa's cratering record as observed by Hayabusa: Implications for its age and collisional history. Icarus, 2009, 200, 503-513.	1.1	74
63	Detection of Earth-impacting asteroids with the next generation all-sky surveys. Icarus, 2009, 203, 472-485.	1.1	32
64	A critical-conduction-mode bridgeless interleaved boost power factor correction: Its control scheme based on commonly available controller. , 2009, , .		3
65	Empirical models of Total Electron Content based on functional fitting over Taiwan during geomagnetic quiet condition. Annales Geophysicae, 2009, 27, 3321-3333.	0.6	27
66	Near-infrared spectrophotometry of Asteroid 25143 Itokawa from NIRS on the Hayabusa spacecraft. Icarus, 2008, 194, 137-145.	1.1	33
67	Small-scale topography of 25143 Itokawa from the Hayabusa laser altimeter. Icarus, 2008, 198, 108-124.	1.1	79
68	Characterizing and navigating small bodies with imaging data. Meteoritics and Planetary Science, 2008, 43, 1049-1061.	0.7	209
69	Meteoroids and Meteors " Observations and Connection to Parent Bodies. Lecture Notes in Physics, 2008, , 1-38.	0.3	2
70	Strong correlation between y'/x and superconductivity of $\text{Na}_x(\text{H}_3\text{O})_z\text{CoO}_2 \cdot y\text{H}_2\text{O}$. Journal of the Ceramic Society of Japan, 2008, 116, 641-644.	0.5	0
71	Regolith Migration and Sorting on Asteroid Itokawa. Science, 2007, 316, 1011-1014.	6.0	271
72	Search for OH(A \leftarrow X) and detection of (B \leftarrow X) in ultraviolet meteor spectrum. Advances in Space Research, 2007, 39, 538-543.	1.2	8

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73	An overview of the LIDAR observations of asteroid 25143 Itokawa. <i>Advances in Space Research</i> , 2007, 40, 187-192.	1.2	18
74	Astrodynamic Science About Itokawa, Gravity and Ephemeris. , 2006, , .		7
75	Landmark Navigation Studies and Target Characterization in the Hayabusa Encounter with Itokawa. , 2006, , .		37
76	The Actual Dynamical Environment About Itokawa. , 2006, , .		43
77	Near-Infrared Spectral Results of Asteroid Itokawa from the Hayabusa Spacecraft. <i>Science</i> , 2006, 312, 1334-1338.	6.0	147
78	Developing space weathering on the asteroid 25143 Itokawa. <i>Nature</i> , 2006, 443, 56-58.	13.7	97
79	VIDEO AND PHOTOGRAPHIC SPECTROSCOPY OF 1998 AND 2001 LEONID PERSISTENT TRAINS FROM 300 TO 930Ånm. <i>Earth, Moon and Planets</i> , 2006, 95, 265-277.	0.3	7
80	Effect of ion exchange rate of Yâ€‘type zeolite on selective adsorption of 2,6â€‘ and 2,7â€‘dimethylnaphthalene isomers in supercritical carbon dioxide. <i>Science and Technology of Advanced Materials</i> , 2006, 7, 672-677.	2.8	1
81	Touchdown of the Hayabusa Spacecraft at the Muses Sea on Itokawa. <i>Science</i> , 2006, 312, 1350-1353.	6.0	349
82	Mass and Local Topography Measurements of Itokawa by Hayabusa. <i>Science</i> , 2006, 312, 1344-1347.	6.0	213
83	Detection of the [FORMULA][F][RM]N[/RM][SUP]+[/SUP][INF]2[/INF][F][F][FORMULA] First Negative System in a Bright Leonid Fireball. <i>Astrophysical Journal</i> , 2005, 618, L141-L144.	1.6	25
84	Evolution kinetics of sp ² ordering in tetrahedral amorphous carbon films induced by electron irradiation. <i>Surface Science</i> , 2005, 593, 161-167.	0.8	19
85	Meteoroid Clusters in Leonids: Evidence of Fragmentation in Space. <i>Publication of the Astronomical Society of Japan</i> , 2003, 55, L23-L26.	1.0	24
86	Twin Peaks of the 2002 Leonid Meteor Storm Observed in the Leonid MAC Airborne Mission. <i>Publication of the Astronomical Society of Japan</i> , 2003, 55, 559-565.	1.0	6
87	Wide-Field TV Observation of the Leonid Meteor Storm in 2001: Main Peak over Japan. <i>Publication of the Astronomical Society of Japan</i> , 2002, 54, L23-L26.	1.0	19
88	Spin Temperature of Ammonia Determined from NH ₂ in Comet C/2001 A2 (LINEAR). <i>Earth, Moon and Planets</i> , 2002, 90, 371-379.	0.3	8
89	High-Dispersion Spectra of NH ₂ in the Comet C/1999S4 (LINEAR): Excitation Mechanism of the NH ₂ Molecule. <i>Publication of the Astronomical Society of Japan</i> , 2001, 53, L5-L8.	1.0	17
90	TV Observation of the Leonid Meteor Shower in 1999: Secondary Peak over Japan. <i>Publication of the Astronomical Society of Japan</i> , 2000, 52, L21-L24.	1.0	4

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91	TV Observation of the Leonid Meteor Shower in 1998: No Strong Activity over Japan. Publication of the Astronomical Society of Japan, 1999, 51, L11-L14.	1.0	5
92	HD TV observation of the strong activity of the Giacobinid Meteor Shower in 1998. Geophysical Research Letters, 1999, 26, 1117-1120.	1.5	12
93	Wide Field Imaging of Ion Tail of Comet C/Hale-Bopp. Earth, Moon and Planets, 1997, 77, 265-269.	0.3	2
94	Near-Infrared Photometric And Polarimetric Observations Of Comet Hale-Bopp. Earth, Moon and Planets, 1997, 78, 353-358.	0.3	13
95	Characterization of CD4 ⁺ CD8 ⁺ T cells in autoimmune encephalomyelitis. Journal of Neuroimmunology, 1994, 54, 180.	1.1	0
96	A report on very low level polonium determination in airborne dusts by electrochemical displacement. Health Physics, 1968, 14, 373-5.	0.3	0