

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	Touchdown of the Hayabusa Spacecraft at the Muses Sea on Itokawa. Science, 2006, 312, 1350-1353.	6.0	349
2	The geomorphology, color, and thermal properties of Ryugu: Implications for parent-body processes. Science, 2019, 364, 252.	6.0	313
3	Regolith Migration and Sorting on Asteroid Itokawa. Science, 2007, 316, 1011-1014.	6.0	271
4	Mass and Local Topography Measurements of Itokawa by Hayabusa. Science, 2006, 312, 1344-1347.	6.0	213
5	Characterizing and navigating small bodies with imaging data. Meteoritics and Planetary Science, 2008, 43, 1049-1061.	0.7	209
6	Near-Infrared Spectral Results of Asteroid Itokawa from the Hayabusa Spacecraft. Science, 2006, 312, 1334-1338.	6.0	147
7	The Pan-STARRS Moving Object Processing System. Publications of the Astronomical Society of the Pacific, 2013, 125, 357-395.	1.0	124
8	Developing space weathering on the asteroid 25143 Itokawa. Nature, 2006, 443, 56-58.	13.7	97
9	Small-scale topography of 25143 Itokawa from the Hayabusa laser altimeter. Icarus, 2008, 198, 108-124.	1.1	79
10	Itokawa's cratering record as observed by Hayabusa: Implications for its age and collisional history. Icarus, 2009, 200, 503-513.	1.1	74
11	Rotational characterization of Hayabusa II target Asteroid (162173) 1999 JU3. Icarus, 2013, 224, 24-31.	1.1	57
12	DISCOVERY OF MAIN-BELT COMET P/2006 VW ₁₃₉ BY Pan-STARRS1. Astrophysical Journal Letters, 2012, 748, L15.	3.0	49
13	Thermally altered subsurface material of asteroid (162173) Ryugu. Nature Astronomy, 2021, 5, 246-250.	4.2	47
14	OBSERVATIONAL AND DYNAMICAL CHARACTERIZATION OF MAIN-BELT COMET P/2010 R2 (La Sagra). Astronomical Journal, 2012, 143, 104.	1.9	46
15	OPTICAL PROPERTIES OF (162173) 1999 JU3: IN PREPARATION FOR THE JAXA HAYABUSA 2 SAMPLE RETURN MISSION. Astrophysical Journal, 2014, 792, 74.	1.6	45
16	The Actual Dynamical Environment About Itokawa. , 2006, , .		43
17	Landmark Navigation Studies and Target Characterization in the Hayabusa Encounter with Itokawa. , 2006, , .		37
18	Near-infrared spectrophotometry of Asteroid 25143 Itokawa from NIRS on the Hayabusa spacecraft. Icarus, 2008, 194, 137-145.	1.1	33

#	ARTICLE	IF	CITATIONS
19	Detection of Earth-impacting asteroids with the next generation all-sky surveys. <i>Icarus</i> , 2009, 203, 472-485.	1.1	32
20	Searching for the first near-Earth object family. <i>Icarus</i> , 2012, 220, 1050-1063.	1.1	28
21	Mission to Earth's Moon Lagrange Point by a 6U CubeSat: EQUULEUS. <i>IEEE Aerospace and Electronic Systems Magazine</i> , 2020, 35, 30-44.	2.3	28
22	EUSO-TA's First results from a ground-based EUSO telescope. <i>Astroparticle Physics</i> , 2018, 102, 98-111.	1.9	27
23	Empirical models of Total Electron Content based on functional fitting over Taiwan during geomagnetic quiet condition. <i>Annales Geophysicae</i> , 2009, 27, 3321-3333.	0.6	27
24	Detection of the [FORMULA][F][RM]N[/RM][SUP]+[/SUP][INF]2[/INF][F][FORMULA] First Negative System in a Bright Leonid Fireball. <i>Astrophysical Journal</i> , 2005, 618, L141-L144.	1.6	25
25	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
26	An Overview of JAXA's Ground-Observation Activities for HAYABUSA Reentry. <i>Publication of the Astronomical Society of Japan</i> , 2011, 63, 961-969.	1.0	21
27	New Evidence for a Physical Link between Asteroids (155140) 2005 UD and (3200) Phaethon*. <i>Planetary Science Journal</i> , 2020, 1, 15.	1.5	21
28	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
29	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
30	An overview of the LIDAR observations of asteroid 25143 Itokawa. <i>Advances in Space Research</i> , 2007, 40, 187-192.	1.2	18
31	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
32	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
33	Near-Ultraviolet and Visible Spectroscopy of HAYABUSA Spacecraft Re-Entry. <i>Publication of the Astronomical Society of Japan</i> , 2011, 63, 1011-1021.	1.0	17
34	Meteor studies in the framework of the JEM-EUSO program. <i>Planetary and Space Science</i> , 2017, 143, 245-255.	0.9	17
35	Improving Hayabusa2 trajectory by combining LIDAR data and a shape model. <i>Icarus</i> , 2020, 338, 113574.	1.1	16
36	Trajectory of HAYABUSA Reentry Determined from Multisite TV Observations. <i>Publication of the Astronomical Society of Japan</i> , 2011, 63, 947-953.	1.0	15

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37	Trajectory Estimation of the Hayabusa Spacecraft During Atmospheric Disintegration. Journal of Spacecraft and Rockets, 2013, 50, 326-336.	1.3	15
38	First observations of speed of light tracks by a fluorescence detector looking down on the atmosphere. Journal of Instrumentation, 2018, 13, P05023-P05023.	0.5	15
39	The signature of the 2011 Tohoku mega earthquake on the geomagnetic field measurements in Japan. NRIAG Journal of Astronomy and Geophysics, 2013, 2, 185-195.	0.5	14
40	Near-Infrared Photometric And Polarimetric Observations Of Comet Hale-Bopp. Earth, Moon and Planets, 1997, 78, 353-358.	0.3	13
41	Albedo Observation by Hayabusa2 LIDAR: Instrument Performance and Error Evaluation. Space Science Reviews, 2017, 208, 49-64.	3.7	13
42	HD TV observation of the strong activity of the Giacobinid Meteor Shower in 1998. Geophysical Research Letters, 1999, 26, 1117-1120.	1.5	12
43	Photographic and Radiometric Observations of the HAYABUSA Re-Entry. Publication of the Astronomical Society of Japan, 2011, 63, 1003-1009.	1.0	12
44	Sodium variation in Geminid meteoroids from (3200) Phaethon. Planetary and Space Science, 2020, 194, 105040.	0.9	12
45	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
46	Numerical Reconstruction of HAYABUSA Sample Return Capsule Flight Environments. , 2011, , .		11
47	Photometric observations of 107P/Wilson-Harrington. Icarus, 2011, 215, 17-26.	1.1	11
48	Dynamic precise orbit determination of Hayabusa2 using laser altimeter (LIDAR) and image tracking data sets. Earth, Planets and Space, 2020, 72, .	0.9	11
49	Design of a tritium gas cell for beta-ray induced X-ray spectrometry using Monte Carlo simulation. Fusion Engineering and Design, 2017, 119, 12-16.	1.0	9
50	Spin Temperature of Ammonia Determined from NH ₂ in Comet C/2001 A2 (LINEAR). Earth, Moon and Planets, 2002, 90, 371-379.	0.3	8
51	Search for OH(A ² X) and detection of (B ² X) in ultraviolet meteor spectrum. Advances in Space Research, 2007, 39, 538-543.	1.2	8
52	Tritium retention properties of tungsten, graphite and co-deposited carbon film. Fusion Engineering and Design, 2014, 89, 1516-1519.	1.0	8
53	Astrodynamic Science About Itokawa, Gravity and Ephemeris. , 2006, , .		7
54	VIDEO AND PHOTOGRAPHIC SPECTROSCOPY OF 1998 AND 2001 LEONID PERSISTENT TRAINS FROM 300 TO 930Ånm. Earth, Moon and Planets, 2006, 95, 265-277.	0.3	7

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55	Turbulence simulation taking account of inhomogeneity of neutral density in linear devices. Physics of Plasmas, 2018, 25, .	0.7	7
56	Low dispersion spectra of lunar impact flashes in 2018 Geminids. Planetary and Space Science, 2021, 195, 105131.	0.9	7
57	Twin Peaks of the 2002 Leonid Meteor Storm Observed in the Leonid MAC Airborne Mission. Publication of the Astronomical Society of Japan, 2003, 55, 559-565.	1.0	6
58	Tritium Retention on Stainless Steel Surface Exposed to Plasmas in LHD (II). Plasma and Fusion Research, 2013, 8, 2405014-2405014.	0.3	6
59	FAST ROTATION OF A SUBKILOMETER-SIZED NEAR-EARTH OBJECT 2011 XA ₃ . Astronomical Journal, 2014, 147, 121.	1.9	6
60	Tracking of tritium charged into stainless steel by BIXS. Fusion Engineering and Design, 2016, 113, 250-254.	1.0	6
61	Tritium desorption and tritium removal from tungsten pre-irradiated with helium. Fusion Engineering and Design, 2016, 109-111, 1179-1182.	1.0	6
62	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
63	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
64	Tritium Retention on the Surface of Stainless Steel Samples Fixed on the Plasma-Facing Wall in LHD. Plasma and Fusion Research, 2014, 9, 3405135-3405135.	0.3	5
65	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
66	TV Observation of the Leonid Meteor Shower in 1999: Secondary Peak over Japan. Publication of the Astronomical Society of Japan, 2000, 52, L21-L24.	1.0	4
67	Anomalous geomagnetic variations associated with the volcanic activity of the Mayon volcano, Philippines during 2009–2010. NRIAG Journal of Astronomy and Geophysics, 2014, 3, 130-136.	0.5	4
68	Plasma distribution of Comet ISON (C/2012 S1) observed using the radio scintillation method. Icarus, 2015, 252, 301-310.	1.1	4
69	Effects of Internal Bremsstrahlung on Tritium Profile Reconstruction in BIXS Measurements. Fusion Science and Technology, 2016, 70, 461-467.	0.6	4
70	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
71	Full rotationally phase-resolved visible reflectance spectroscopy of 3200 Phaethon. Planetary and Space Science, 2020, 191, 104940.	0.9	4
72	A critical-conduction-mode bridgeless interleaved boost power factor correction: Its control scheme based on commonly available controller. , 2009, , .		3

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73	An active-clamped full-wave zero-current-switched quasi-resonant boost converter in power factor correction application. , 2010, , .		3
74	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
75	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
76	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
77	Alignment determination of the Hayabusa2 laser altimeter (LIDAR). Earth, Planets and Space, 2021, 73, .	0.9	3
78	Wide Field Imaging of Ion Tail of Comet C/Haleâ€”Bopp. Earth, Moon and Planets, 1997, 77, 265-269.	0.3	2
79	Meteoroids and Meteors â€” Observations and Connection to Parent Bodies. Lecture Notes in Physics, 2008, , 1-38.	0.3	2
80	Do Meteoroids Originating from Near-Earth Asteroid (25143) Itokawa Exist?. Publication of the Astronomical Society of Japan, 2011, 63, L73-L77.	1.0	2
81	Advanced Î²-ray-induced X-ray spectrometry for non-destructive measurement of tritium retained in fusion related materials. Fusion Engineering and Design, 2016, 109-111, 1569-1573.	1.0	2
82	Effect of ion exchange rate of Yâ€”type zeolite on selective adsorption of 2,6â€” and 2,7â€”dimethylnaphthalene isomers in supercritical carbon dioxide. Science and Technology of Advanced Materials, 2006, 7, 672-677.	2.8	1
83	Video Observation of the Leonids 2001 Activity. Publication of the Astronomical Society of Japan, 2012, 64, .	1.0	1
84	DIVISION III: COMMISSION 22: METEORS, METEORITES AND INTERPLANETARY DUST. Proceedings of the International Astronomical Union, 2013, 10, 120-123.	0.0	1
85	Tritium Counting Using a Europium Coordination Complex. Fusion Science and Technology, 2017, 71, 496-500.	0.6	1
86	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
87	Characterization of CD4â€”CD8â€” $\hat{\pm}$ T cells in autoimmune encephalomyelitis. Journal of Neuroimmunology, 1994, 54, 180.	1.1	0
88	Strong correlation between y'/x and superconductivity of $Nax(H3O)zCoO2 y'H2O$. Journal of the Ceramic Society of Japan, 2008, 116, 641-644.	0.5	0
89	Models for the Origin of the Quadrantids. Earth, Moon and Planets, 2010, 106, 55-65.	0.3	0
90	Phaethon-Gemind complex by Pan-STARRS. Proceedings of the International Astronomical Union, 2012, 10, 138-138.	0.0	0

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91	Trajectory Estimation of the Hayabusa Spacecraft During Atmospheric Disintegration. , 2012, , .		0
92	Evaluation of Artificial Meteor Sources with Arc Heater Wind Tunnel. Transactions of the Japan Society for Aeronautical and Space Sciences Aerospace Technology Japan, 2016, 14, Pf_119-Pf_123.	0.1	0
93	Development of artificial meteor for observation of upper atmosphere. Acta Astronautica, 2016, 121, 172-178.	1.7	0
94	Albedo Observation by Hayabusa2 LIDAR: Instrument Performance and Error Evaluation. , 2016, , 49-64.		0
95	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
96	A report on very low level polonium determination in airborne dusts by electrochemical displacement. Health Physics, 1968, 14, 373-5.	0.3	0