

Seiji Sugita

List of Publications by Year in descending order

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175
papers

6,232
citations

76326

40
h-index

82547

72
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183
all docs

183
docs citations

183
times ranked

3399
citing authors

#	ARTICLE	IF	CITATIONS
1	Hayabusa2 arrives at the carbonaceous asteroid 162173 Ryugu—A spinning top-shaped rubble pile. <i>Science</i> , 2019, 364, 268-272.	12.6	410
2	The geomorphology, color, and thermal properties of Ryugu: Implications for parent-body processes. <i>Science</i> , 2019, 364, 252.	12.6	313
3	Laboratory experiments of Titan tholin formed in cold plasma at various pressures: implications for nitrogen-containing polycyclic aromatic compounds in Titan haze. <i>Icarus</i> , 2004, 168, 344-366.	2.5	284
4	The surface composition of asteroid 162173 Ryugu from Hayabusa2 near-infrared spectroscopy. <i>Science</i> , 2019, 364, 272-275.	12.6	262
5	An artificial impact on the asteroid (162173) Ryugu formed a crater in the gravity-dominated regime. <i>Science</i> , 2020, 368, 67-71.	12.6	183
6	Deep Impact: Observations from a Worldwide Earth-Based Campaign. <i>Science</i> , 2005, 310, 265-269.	12.6	182
7	Shape of (101955) Bennu indicative of a rubble pile with internal stiffness. <i>Nature Geoscience</i> , 2019, 12, 247-252.	12.9	179
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	Preliminary analysis of the Hayabusa2 samples returned from C-type asteroid Ryugu. <i>Nature Astronomy</i> , 2022, 6, 214-220.	10.1	136
11	Subaru Telescope Observations of Deep Impact. <i>Science</i> , 2005, 310, 274-278.	12.6	107
12	Boulder size and shape distributions on asteroid Ryugu. <i>Icarus</i> , 2019, 331, 179-191.	2.5	107
13	Hayabusa2: Scientific importance of samples returned from C-type near-Earth asteroid (162173) 1999 JU3. <i>Geochemical Journal</i> , 2014, 48, 571-587.	1.0	103
14	Highly porous nature of a primitive asteroid revealed by thermal imaging. <i>Nature</i> , 2020, 579, 518-522.	27.8	100
15	Images from the surface of asteroid Ryugu show rocks similar to carbonaceous chondrite meteorites. <i>Science</i> , 2019, 365, 817-820.	12.6	99
16	Samples returned from the asteroid Ryugu are similar to Ivuna-type carbonaceous meteorites. <i>Science</i> , 2023, 379, .	12.6	97
17	<i>EPOXI</i>: COMET 103P/HARTLEY 2 OBSERVATIONS FROM A WORLDWIDE CAMPAIGN. <i>Astrophysical Journal Letters</i> , 2011, 734, L1.	8.3	96
18	Bayesian spectral deconvolution with the exchange Monte Carlo method. <i>Neural Networks</i> , 2012, 28, 82-89.	5.9	92

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19	Collisional formation of top-shaped asteroids and implications for the origins of Ryugu and Bennu. <i>Nature Communications</i> , 2020, 11, 2655.	12.8	87
20	Felsic highland crust on Venus suggested by Galileo Near-Infrared Mapping Spectrometer data. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	86
21	Variations in color and reflectance on the surface of asteroid (101955) Bennu. <i>Science</i> , 2020, 370, .	12.6	84
22	The chemical composition of the early terrestrial atmosphere: Formation of a reducing atmosphere from CI-like material. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	83
23	The ESA Hera Mission: Detailed Characterization of the DART Impact Outcome and of the Binary Asteroid (65803) Didymos. <i>Planetary Science Journal</i> , 2022, 3, 160.	3.6	82
24	Preflight Calibration Test Results for Optical Navigation Camera Telescope (ONC-T) Onboard the Hayabusa2 Spacecraft. <i>Space Science Reviews</i> , 2017, 208, 17-31.	8.1	81
25	Pebbles and sand on asteroid (162173) Ryugu: In situ observation and particles returned to Earth. <i>Science</i> , 2022, 375, 1011-1016.	12.6	78
26	Spectroscopic measurements of vapor clouds due to oblique impacts. <i>Journal of Geophysical Research</i> , 1998, 103, 19427-19441.	3.3	66
27	First compositional analysis of Ryugu samples by the MicrOmega hyperspectral microscope. <i>Nature Astronomy</i> , 2022, 6, 221-225.	10.1	65
28	The role of organic haze in Titan's atmospheric chemistry. <i>Icarus</i> , 2008, 194, 186-200.	2.5	63
29	Production of sulphate-rich vapour during the Chicxulub impact and implications for ocean acidification. <i>Nature Geoscience</i> , 2014, 7, 279-282.	12.9	57
30	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.	1.6	56
31	Initial inflight calibration for Hayabusa2 optical navigation camera (ONC) for science observations of asteroid Ryugu. <i>Icarus</i> , 2018, 300, 341-359.	2.5	56
32	On observing the compositional variability of the surface of Venus using nightside near-infrared thermal radiation. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	50
33	Cratering efficiency on coarse-grain targets: Implications for the dynamical evolution of asteroid 25143 Itokawa. <i>Icarus</i> , 2018, 300, 227-248.	2.5	48
34	Updated inflight calibration of Hayabusa2's optical navigation camera (ONC) for scientific observations during the cruise phase. <i>Icarus</i> , 2019, 325, 153-195.	2.5	48
35	Thermophysical properties of the surface of asteroid 162173 Ryugu: Infrared observations and thermal inertia mapping. <i>Icarus</i> , 2020, 348, 113835.	2.5	48
36	Thermally altered subsurface material of asteroid (162173) Ryugu. <i>Nature Astronomy</i> , 2021, 5, 246-250.	10.1	47

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37	The Camera of the MASCOT Asteroid Lander on Board Hayabusa 2. <i>Space Science Reviews</i> , 2017, 208, 375-400.	8.1	46
38	Spectroscopic characterization of hypervelocity jetting: Comparison with a standard theory. <i>Journal of Geophysical Research</i> , 1999, 104, 30825-30845.	3.3	42
39	Replacement and late formation of atmospheric N ₂ on undifferentiated Titan by impacts. <i>Nature Geoscience</i> , 2011, 4, 359-362.	12.9	42
40	Collisional history of Ryugu's parent body from bright surface boulders. <i>Nature Astronomy</i> , 2021, 5, 39-45.	10.1	42
41	Intensities of atomic lines and molecular bands observed in impact-induced luminescence. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	40
42	The role of organic haze in Titan's atmospheric chemistry. <i>Icarus</i> , 2008, 194, 201-211.	2.5	39
43	Spacecraft sample collection and subsurface excavation of asteroid (101955) Bennu. <i>Science</i> , 2022, 377, 285-291.	12.6	39
44	Non-intrusive measurements of crater growth. <i>Icarus</i> , 2007, 188, 506-521.	2.5	38
45	Global photometric properties of (162173) Ryugu. <i>Astronomy and Astrophysics</i> , 2020, 639, A83.	5.1	37
46	Direct measurements of chemical composition of shock-induced gases from calcite: an intense global warming after the Chicxulub impact due to the indirect greenhouse effect of carbon monoxide. <i>Earth and Planetary Science Letters</i> , 2009, 282, 56-64.	4.4	35
47	Dynamics of hypervelocity jetting during oblique impacts of spherical projectiles investigated via ultrafast imaging. <i>Journal of Geophysical Research E: Planets</i> , 2015, 120, 1237-1251.	3.6	33
48	Methane production by large iron meteorite impacts on early Earth. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	32
49	The role of Fischer-Tropsch catalysis in the origin of methane-rich Titan. <i>Icarus</i> , 2005, 178, 154-164.	2.5	32
50	Numerical modeling of lander interaction with a low-gravity asteroid regolith surface. <i>Astronomy and Astrophysics</i> , 2018, 615, A41.	5.1	31
51	Initiation of Run-Out Flows on Venus by Oblique Impacts. <i>Icarus</i> , 2002, 155, 265-284.	2.5	30
52	The relative timing of Lunar Magma Ocean solidification and the Late Heavy Bombardment inferred from highly degraded impact basin structures. <i>Icarus</i> , 2015, 250, 492-503.	2.5	30
53	Ecliptic North-South Symmetry of Hydrogen Geocorona. <i>Geophysical Research Letters</i> , 2017, 44, 11,706.	4.0	30
54	The Western Bulge of 162173 Ryugu Formed as a Result of a Rotationally Driven Deformation Process. <i>Astrophysical Journal Letters</i> , 2019, 874, L10.	8.3	30

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55	Anomalous porous boulders on (162173) Ryugu as primordial materials from its parent body. <i>Nature Astronomy</i> , 2021, 5, 766-774.	10.1	30
56	The Thickness and Formation Age of the Surface Layer on Comet 9P/Tempel 1. <i>Astrophysical Journal</i> , 2007, 661, L89-L92.	4.5	28
57	Spin-driven evolution of asteroids' top-shapes at fast and slow spins seen from (101955) Bennu and (162173) Ryugu. <i>Icarus</i> , 2020, 352, 113946.	2.5	28
58	Hydrogen Cyanide Production due to Mid-Size Impacts in a Redox-Neutral N ₂ -Rich Atmosphere. <i>Origins of Life and Evolution of Biospheres</i> , 2013, 43, 221-245.	1.9	27
59	Macroporosity and Grain Density of Rubble Pile Asteroid (162173) Ryugu. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2020JE006519.	3.6	27
60	Nonstop Mars Sample Return System Using Aerocapture Technologies. , 2009, , .		25
61	The spatial distribution of impact craters on Ryugu. <i>Icarus</i> , 2020, 338, 113527.	2.5	25
62	Resurfacing processes on asteroid (162173) Ryugu caused by an artificial impact of Hayabusa2's Small Carry-on Impactor. <i>Icarus</i> , 2021, 366, 114530.	2.5	24
63	Evaluation of mineralogical alteration of micrometeoroid analog materials captured in aerogel. <i>Advances in Space Research</i> , 2004, 34, 2299-2304.	2.6	23
64	An experimental study on Fischer-Tropsch catalysis: Implications for impact phenomena and nebular chemistry. <i>Meteoritics and Planetary Science</i> , 2006, 41, 715-729.	1.6	23
65	Spectrally blue hydrated parent body of asteroid (162173) Ryugu. <i>Nature Communications</i> , 2021, 12, 5837.	12.8	23
66	Vapor clouds generated by laser ablation and hypervelocity impact. <i>Geophysical Research Letters</i> , 2002, 29, 40-1-40-4.	4.0	22
67	Real-time detector for hypervelocity microparticles using piezoelectric material. <i>Advances in Space Research</i> , 2004, 34, 935-938.	2.6	22
68	Sulfur chemistry in laser-simulated impact vapor clouds: implications for the K/T impact event. <i>Earth and Planetary Science Letters</i> , 2004, 218, 347-361.	4.4	22
69	Young mare volcanism in the Orientale region contemporary with the Procellarum KREEP Terrane (PKT) volcanism peak period $\hat{\sim}$ 1/2 billion years ago. <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	22
70	Viscoelastic deformation of lunar impact basins: Implications for heterogeneity in the deep crustal paleo-thermal state and radioactive element concentration. <i>Journal of Geophysical Research E: Planets</i> , 2013, 118, 398-415.	3.6	22
71	The role of ricochet impacts on impact vaporization. <i>International Journal of Impact Engineering</i> , 2006, 33, 771-780.	5.0	21
72	Impact-induced N ₂ production from ammonium sulfate: Implications for the origin and evolution of N ₂ in Titan's atmosphere. <i>Icarus</i> , 2010, 209, 715-722.	2.5	21

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73	The nature of shock-induced calcite (CaCO ₃) devolatilization in an open system investigated using a two-stage light gas gun. <i>Earth and Planetary Science Letters</i> , 2012, 337-338, 68-76.	4.4	21
74	Detectability of hydrous minerals using ONC-T camera onboard the Hayabusa2 spacecraft. <i>Advances in Space Research</i> , 2015, 56, 1519-1524.	2.6	21
75	Shock compression response of forsterite above 250 GPa. <i>Science Advances</i> , 2016, 2, e1600157.	10.3	21
76	Ground-based characterization of Hayabusa2 mission target asteroid 162173 Ryugu: constraining mineralogical composition in preparation for spacecraft operations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 475, 614-623.	4.4	21
77	An empirical model for transient crater growth in granular targets based on direct observations. <i>Icarus</i> , 2009, 203, 310-319.	2.5	20
78	Design and Reconstruction of the Hayabusa2 Precision Landing on Ryugu. <i>Journal of Spacecraft and Rockets</i> , 2020, 57, 1033-1060.	1.9	20
79	Hayabusa2 extended mission: New voyage to rendezvous with a small asteroid rotating with a short period. <i>Advances in Space Research</i> , 2021, 68, 1533-1555.	2.6	20
80	LCROSS (Lunar Crater Observation and Sensing Satellite) Observation Campaign: Strategies, Implementation, and Lessons Learned. <i>Space Science Reviews</i> , 2012, 167, 93-140.	8.1	19
81	The molecular composition of impact-generated atmospheres on terrestrial planets during the post-accretion stage. <i>Icarus</i> , 2015, 257, 290-301.	2.5	19
82	Impact Experiment on Asteroid (162173) Ryugu: Structure beneath the Impact Point Revealed by In Situ Observations of the Ejecta Curtain. <i>Astrophysical Journal Letters</i> , 2020, 899, L22.	8.3	19
83	Direct measurements of impact devolatilization of calcite using a laser gun. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	18
84	Crater-ray formation by impact-induced ejecta particles. <i>Icarus</i> , 2015, 250, 215-221.	2.5	18
85	The descent and bouncing path of the Hayabusa2 lander MASCOT at asteroid (162173) Ryugu. <i>Astronomy and Astrophysics</i> , 2019, 632, L3.	5.1	18
86	Interactions between impact-induced vapor clouds and the ambient atmosphere: 2. Theoretical modeling. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	17
87	Efficient cyanide formation due to impacts of carbonaceous bodies on a planet with a nitrogen-rich atmosphere. <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	17
88	Visible-wavelength spectroscopy of subkilometer-sized near-Earth asteroids with a low δv . <i>Publication of the Astronomical Society of Japan</i> , 2014, 66, .	2.5	17
89	High-precision potassium measurements using laser-induced breakdown spectroscopy under high vacuum conditions for in situ ⁴⁰ Ar dating of planetary surfaces. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2015, 106, 28-35.	2.9	17
90	Hayabusa2 Landing Site Selection: Surface Topography of Ryugu and Touchdown Safety. <i>Space Science Reviews</i> , 2020, 216, 1.	8.1	17

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91	Interactions between impact-induced vapor clouds and the ambient atmosphere: 1. Spectroscopic observations using diatomic molecular emission. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	16
92	FEM analysis of current limiting characteristics of a superconducting thin film current limiting device by the current vector potential method. <i>IEEE Transactions on Applied Superconductivity</i> , 2003, 13, 2020-2023.	1.7	16
93	Shock-induced silicate vaporization: The role of electrons. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	16
94	An in-situ ⁴⁰ Ar isochron dating method for planetary landers using a spot-by-spot laser-ablation technique. <i>Planetary and Space Science</i> , 2016, 128, 14-29.	1.7	16
95	Velocity distributions of high-velocity ejecta from regolith targets. <i>Icarus</i> , 2005, 178, 264-273.	2.5	15
96	Impact experiments with a new technique for acceleration of projectiles to velocities higher than Earth's escape velocity of 11.2 km/s. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	15
97	Vis-NIR disk-integrated photometry of asteroid 25143 Itokawa around opposition by AMICA/Hayabusa. <i>Icarus</i> , 2018, 311, 175-196.	2.5	15
98	Multivariable statistical analysis of spectrophotometry and spectra of (162173) Ryugu as observed by JAXA Hayabusa2 mission. <i>Astronomy and Astrophysics</i> , 2019, 629, A13.	5.1	15
99	Rotational states and shapes of Ryugu and Bennu: Implications for interior structure and strength. <i>Planetary and Space Science</i> , 2021, 204, 105268.	1.7	15
100	Laboratory experiments on crater scaling law for sedimentary rocks in the strength regime. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	14
101	The Hayabusa2 lander MASCOT on the surface of asteroid (162173) Ryugu – Stereo-photogrammetric analysis of MASCAM image data. <i>Astronomy and Astrophysics</i> , 2019, 632, L5.	5.1	14
102	Hayabusa2's kinetic impact experiment: Operational planning and results. <i>Acta Astronautica</i> , 2020, 175, 362-374.	3.2	14
103	Response of Piezoelectric Lead-Zirconate-Titanate to Hypervelocity Silver Particles. <i>Japanese Journal of Applied Physics</i> , 2003, 42, 1496-1497.	1.5	13
104	Ballistic deployment of the Hayabusa2 artificial landmarks in the microgravity environment of Ryugu. <i>Icarus</i> , 2021, 358, 114220.	2.5	13
105	Hydrodynamical and radiative transfer modeling of meteoroid impacts into Saturn's rings. <i>Icarus</i> , 2008, 194, 623-635.	2.5	12
106	Crater depth-to-diameter ratios on asteroid 162173 Ryugu. <i>Icarus</i> , 2021, 354, 114016.	2.5	12
107	Opposition Observations of 162173 Ryugu: Normal Albedo Map Highlights Variations in Regolith Characteristics. <i>Planetary Science Journal</i> , 2021, 2, 177.	3.6	12
108	Rotational-Temperature Measurements of Chemically Reacting CN Using Band-Tail Spectra. <i>Journal of Thermophysics and Heat Transfer</i> , 2009, 23, 463-472.	1.6	11

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109	Surface roughness of asteroid (162173) Ryugu and comet 67P/Churyumovâ€™Gerasimenko inferred from <i>in situ</i> observations. Monthly Notices of the Royal Astronomical Society, 2020, 500, 3178-3193.	4.4	11
110	Post-arrival calibration of Hayabusa2's optical navigation cameras (ONCs): Severe effects from touchdown events. Icarus, 2021, 360, 114353.	2.5	11
111	A new spectral calculation scheme for long-term deformation of Maxwellian planetary bodies. Journal of Geophysical Research, 2012, 117, .	3.3	10
112	Numerical modeling of lander interaction with a low-gravity asteroid regolith surface. Astronomy and Astrophysics, 2021, 648, A56.	5.1	10
113	Geologic History and Crater Morphology of Asteroid (162173) Ryugu. Journal of Geophysical Research E: Planets, 2021, 126, e2020JE006572.	3.6	10
114	Mid-infrared emissivity of partially dehydrated asteroid (162173) Ryugu shows strong signs of aqueous alteration. Nature Communications, 2022, 13, 364.	12.8	10
115	A hydrocode calculation coupled with reaction kinetics of carbon compounds within an impact vapor plume and its implications for cometary impacts on Galilean satellites. Icarus, 2010, 210, 411-423.	2.5	9
116	<i>In situ</i> spectroscopic observations of silicate vaporization due to >10 km/s impacts using laser driven projectiles. Geophysical Research Letters, 2010, 37, .	4.0	9
117	The MASCOT landing area on asteroid (162173) Ryugu: Stereo-photogrammetric analysis using images of the ONC onboard the Hayabusa2 spacecraft. Astronomy and Astrophysics, 2019, 632, L4.	5.1	9
118	Improved method of hydrous mineral detection by latitudinal distribution of 0.7-1.4µm surface reflectance absorption on the asteroid Ryugu. Icarus, 2021, 360, 114348.	2.5	9
119	Hayabusa2 pinpoint touchdown near the artificial crater on Ryugu: Trajectory design and guidance performance. Advances in Space Research, 2021, 68, 3093-3140.	2.6	9
120	A semi-analytical on-hugoniot eos of condensed matter using a linear UP-U _s relation. AIP Conference Proceedings, 2012, , .	0.4	8
121	Oxidation of carbon compounds by silica-derived oxygen within impact-induced vapor plumes. Earth, Planets and Space, 2013, 65, 811-822.	2.5	8
122	High Pressure Experiments on Metal-Silicate Partitioning of Chlorine in a Magma Ocean: Implications for Terrestrial Chlorine Depletion. Geochemistry, Geophysics, Geosystems, 2017, 18, 3929-3945.	2.5	8
123	Simulation of Seismic Wave Propagation on Asteroid Ryugu Induced by The Impact Experiment of The Hayabusa2 Mission: Limited Mass Transport by Low Yield Strength of Porous Regolith. Journal of Geophysical Research E: Planets, 2021, 126, e2020JE006594.	3.6	8
124	Quantitative Potassium Measurements with Laser-Induced Breakdown Spectroscopy Using Low-Energy Lasers: Application to <i>In Situ</i> ⁴⁰ Ar Geochronology for Planetary Exploration. Applied Spectroscopy, 2017, 71, 1969-1981.	2.2	7
125	Spectral decomposition of asteroid Itokawa based on principal component analysis. Icarus, 2018, 299, 386-395.	2.5	7
126	Motion reconstruction of the small carry-on impactor aboard Hayabusa2. Astrodynamics, 2020, 4, 289-308.	2.4	7

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127	Spectral characterization of the craters of Ryugu as observed by the NIRS3 instrument on-board Hayabusa2. <i>Icarus</i> , 2021, 357, 114253.	2.5	7
128	Spectrophotometric Analysis of the Ryugu Rock Seen by MASCOT: Searching for a Carbonaceous Chondrite Analog. <i>Planetary Science Journal</i> , 2021, 2, 58.	3.6	7
129	A pressure measurement method for high-temperature rock vapor plumes using atomic line broadening. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	6
130	Impact chemistry of methanol: Implications for volatile evolution on icy satellites and dwarf planets, and cometary delivery to the Moon. <i>Icarus</i> , 2014, 243, 39-47.	2.5	6
131	Cluster analysis on the bulk elemental compositions of Antarctic stony meteorites. <i>Meteoritics and Planetary Science</i> , 2016, 51, 906-919.	1.6	6
132	Experimental study concerning the oblique impact of low- and high-density projectiles on sedimentary rocks. <i>Planetary and Space Science</i> , 2021, 195, 105141.	1.7	6
133	Development of image texture analysis technique for boulder distribution measurements: Applications to asteroids Ryugu and Itokawa. <i>Planetary and Space Science</i> , 2021, 204, 105249.	1.7	6
134	Resurfacing processes constrained by crater distribution on Ryugu. <i>Icarus</i> , 2022, 377, 114911.	2.5	6
135	High-resolution observations of bright boulders on asteroid Ryugu: 2. Spectral properties. <i>Icarus</i> , 2021, 369, 114591.	2.5	5
136	The role of Fischer-Tropsch catalysis in Jovian subnebular chemistry. <i>Astronomy and Astrophysics</i> , 2006, 459, 965-968.	5.1	5
137	Investigation of Martian Dust Sample Capture toward Mars Aero-flyby Sample Collection Mission. <i>Transactions of the Japan Society for Aeronautical and Space Sciences Aerospace Technology Japan</i> , 2012, 10, Pk_11-Pk_17.	0.2	5
138	Time-resolved spectroscopic observations of shockinduced silicate ionization. <i>AIP Conference Proceedings</i> , 2012, , .	0.4	4
139	Gas recovery experiments to determine the degree of shock-induced devolatilization of calcite. <i>Journal of Physics: Conference Series</i> , 2014, 500, 062001.	0.4	4
140	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
141	Site selection for the Hayabusa2 artificial cratering and subsurface material sampling on Ryugu. <i>Planetary and Space Science</i> , 2022, 219, 105519.	1.7	4
142	A ground-based observation of the LCROSS impact events using the Subaru Telescope. <i>Icarus</i> , 2011, 214, 21-29.	2.5	3
143	Influence of a Polyimide Surface Layer on the Piezoelectric Response of Lead-Zirconate-Titanate Cosmic Dust Detector. <i>Japanese Journal of Applied Physics</i> , 2013, 52, 028002.	1.5	3
144	Evaluation of capillary-induced deformation of thin plates due to liquid column formation. <i>Applied Physics Letters</i> , 2013, 103, 043113.	3.3	3

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145	Experimental study of heterogeneous organic chemistry induced by far ultraviolet light: Implications for growth of organic aerosols by CH ₃ addition in the atmospheres of Titan and early Earth. <i>Icarus</i> , 2018, 307, 25-39.	2.5	3
146	Reflectance spectra of Asteroids and Meteorites: their classifications and statistical comparisons. <i>Journal of Physics: Conference Series</i> , 2018, 1036, 012003.	0.4	3
147	Alignment determination of the Hayabusa2 laser altimeter (LIDAR). <i>Earth, Planets and Space</i> , 2021, 73, .	2.5	3
148	The Camera of the MASCOT Asteroid Lander on Board Hayabusa 2. , 2016, , 375-400.		3
149	Mission objectives, planning, and achievements of Hayabusa2. , 2022, , 5-23.		3
150	Impact vaporization of rocks using a high-power laser. <i>Journal of Physics: Conference Series</i> , 2008, 112, 042014.	0.4	2
151	Position-Dependent Behavior of Piezoelectric Leadâ€Žirconateâ€ŽTitanate Cosmic Dust Detector. <i>Japanese Journal of Applied Physics</i> , 2012, 51, 098004.	1.5	2
152	Direct measurement of chemical composition of SO _x in impact vapor using a laser gun. , 2012, , .		2
153	Dust detector using piezoelectric lead zirconate titanate with current-to-voltage converting amplifier for functional advancement. <i>Earth, Planets and Space</i> , 2013, 65, 167-173.	2.5	2
154	Conceptual Design of an In Situ K-Ar Isochron Dating Instrument for Future Mars Rover Missions. <i>Transactions of the Japan Society for Aeronautical and Space Sciences Aerospace Technology Japan</i> , 2016, 14, Pk_89-Pk_94.	0.2	2
155	Experimental characterization of elastomeric O-rings as reusable seals for mass spectrometric measurements: Application to in situ Kâ€ŽAr dating on Mars. <i>Advances in Space Research</i> , 2017, 60, 1453-1462.	2.6	2
156	High-resolution observations of bright boulders on asteroid Ryugu: 1. Size frequency distribution and morphology. <i>Icarus</i> , 2021, 369, 114529.	2.5	2
157	Evolution of lunar topography by impact processes. <i>Geophysical Research Letters</i> , 1991, 18, 2125-2128.	4.0	1
158	Spectroscopic measurements of Si-O recombination process in laser-induced quartz vapor plumes. <i>Earth, Planets and Space</i> , 2007, 59, 437-451.	2.5	1
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