

Seiji Sugita

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/515005/publications.pdf>

Version: 2024-02-01

175
papers

6,232
citations

76326

40
h-index

82547

72
g-index

183
all docs

183
docs citations

183
times ranked

3399
citing authors

#	ARTICLE	IF	CITATIONS
1	Samples returned from the asteroid Ryugu are similar to Ivuna-type carbonaceous meteorites. <i>Science</i> , 2023, 379, .	12.6	97
2	Resurfacing processes constrained by crater distribution on Ryugu. <i>Icarus</i> , 2022, 377, 114911.	2.5	6
3	Mid-infrared emissivity of partially dehydrated asteroid (162173) Ryugu shows strong signs of aqueous alteration. <i>Nature Communications</i> , 2022, 13, 364.	12.8	10
4	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
5	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
6	Preliminary analysis of the Hayabusa2 samples returned from C-type asteroid Ryugu. <i>Nature Astronomy</i> , 2022, 6, 214-220.	10.1	136
7	First compositional analysis of Ryugu samples by the MicrOmega hyperspectral microscope. <i>Nature Astronomy</i> , 2022, 6, 221-225.	10.1	65
8	Mission objectives, planning, and achievements of Hayabusa2. , 2022, , 5-23.		3
9	Sensitivity degradation of optical navigation camera and attempts for dust removal. , 2022, , 415-431.		1
10	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
11	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
12	Utilization of a meteorological satellite as a space telescope: the lunar mid-infrared spectrum as seen by Himawari-8. <i>Earth, Planets and Space</i> , 2022, 74, .	2.5	0
13	Spacecraft sample collection and subsurface excavation of asteroid (101955) Bennu. <i>Science</i> , 2022, 377, 285-291.	12.6	39
14	Crater depth-to-diameter ratios on asteroid 162173 Ryugu. <i>Icarus</i> , 2021, 354, 114016.	2.5	12
15	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
16	Ballistic deployment of the Hayabusa2 artificial landmarks in the microgravity environment of Ryugu. <i>Icarus</i> , 2021, 358, 114220.	2.5	13
17	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
18	Collisional history of Ryugu's parent body from bright surface boulders. <i>Nature Astronomy</i> , 2021, 5, 39-45.	10.1	42

#	ARTICLE	IF	CITATIONS
19	Thermally altered subsurface material of asteroid (162173) Ryugu. <i>Nature Astronomy</i> , 2021, 5, 246-250.	10.1	47
20	Alignment determination of the Hayabusa2 laser altimeter (LIDAR). <i>Earth, Planets and Space</i> , 2021, 73, .	2.5	3
21	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. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, e2020JE006594.	3.6	8
22	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
23	Numerical modeling of lander interaction with a low-gravity asteroid regolith surface. <i>Astronomy and Astrophysics</i> , 2021, 648, A56.	5.1	10
24	Post-arrival calibration of Hayabusa2's optical navigation cameras (ONCs): Severe effects from touchdown events. <i>Icarus</i> , 2021, 360, 114353.	2.5	11
25	Anomalously porous boulders on (162173) Ryugu as primordial materials from its parent body. <i>Nature Astronomy</i> , 2021, 5, 766-774.	10.1	30
26	Improved method of hydrous mineral detection by latitudinal distribution of 0.7-1.4μm surface reflectance absorption on the asteroid Ryugu. <i>Icarus</i> , 2021, 360, 114348.	2.5	9
27	Geologic History and Crater Morphology of Asteroid (162173) Ryugu. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, e2020JE006572.	3.6	10
28	Optical design adopting tilted filters for reduction of stray light in planetary exploration cameras and other optics. , 2021, , .		0
29	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
30	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
31	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
32	Opposition Observations of 162173 Ryugu: Normal Albedo Map Highlights Variations in Regolith Characteristics. <i>Planetary Science Journal</i> , 2021, 2, 177.	3.6	12
33	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
34	Hayabusa2 pinpoint touchdown near the artificial crater on Ryugu: Trajectory design and guidance performance. <i>Advances in Space Research</i> , 2021, 68, 3093-3140.	2.6	9
35	High-resolution observations of bright boulders on asteroid Ryugu: 1. Size frequency distribution and morphology. <i>Icarus</i> , 2021, 369, 114529.	2.5	2
36	High-resolution observations of bright boulders on asteroid Ryugu: 2. Spectral properties. <i>Icarus</i> , 2021, 369, 114591.	2.5	5

#	ARTICLE	IF	CITATIONS
37	Spectrally blue hydrated parent body of asteroid (162173) Ryugu. <i>Nature Communications</i> , 2021, 12, 5837.	12.8	23
38	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
39	The spatial distribution of impact craters on Ryugu. <i>Icarus</i> , 2020, 338, 113527.	2.5	25
40	Hayabusa2 Landing Site Selection: Surface Topography of Ryugu and Touchdown Safety. <i>Space Science Reviews</i> , 2020, 216, 1.	8.1	17
41	Variations in color and reflectance on the surface of asteroid (101955) Bennu. <i>Science</i> , 2020, 370, .	12.6	84
42	Ne-Ar separation using a permeable membrane to measure Ne isotopes for future planetary explorations. <i>Planetary and Space Science</i> , 2020, 193, 105046.	1.7	1
43	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
44	Motion reconstruction of the small carry-on impactor aboard Hayabusa2. <i>Astrodynamics</i> , 2020, 4, 289-308.	2.4	7
45	Macroporosity and Grain Density of Rubble Pile Asteroid (162173) Ryugu. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2020JE006519.	3.6	27
46	Global photometric properties of (162173) Ryugu. <i>Astronomy and Astrophysics</i> , 2020, 639, A83.	5.1	37
47	Surface roughness of asteroid (162173) Ryugu and comet 67P/Churyumov-Gerasimenko inferred from <i>in situ</i> observations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 500, 3178-3193.	4.4	11
48	Sample collection from asteroid (162173) Ryugu by Hayabusa2: Implications for surface evolution. <i>Science</i> , 2020, 368, 654-659.	12.6	158
49	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
50	Thermophysical properties of the surface of asteroid 162173 Ryugu: Infrared observations and thermal inertia mapping. <i>Icarus</i> , 2020, 348, 113835.	2.5	48
51	Design and Reconstruction of the Hayabusa2 Precision Landing on Ryugu. <i>Journal of Spacecraft and Rockets</i> , 2020, 57, 1033-1060.	1.9	20
52	Hayabusa2's kinetic impact experiment: Operational planning and results. <i>Acta Astronautica</i> , 2020, 175, 362-374.	3.2	14
53	Highly porous nature of a primitive asteroid revealed by thermal imaging. <i>Nature</i> , 2020, 579, 518-522.	27.8	100
54	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

#	ARTICLE	IF	CITATIONS
55	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
56	Images from the surface of asteroid Ryugu show rocks similar to carbonaceous chondrite meteorites. <i>Science</i> , 2019, 365, 817-820.	12.6	99
57	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
58	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
59	Boulder size and shape distributions on asteroid Ryugu. <i>Icarus</i> , 2019, 331, 179-191.	2.5	107
60	Shape of (101955) Bennu indicative of a rubble pile with internal stiffness. <i>Nature Geoscience</i> , 2019, 12, 247-252.	12.9	179
61	The surface composition of asteroid 162173 Ryugu from Hayabusa2 near-infrared spectroscopy. <i>Science</i> , 2019, 364, 272-275.	12.6	262
62	Hayabusa2 arrives at the carbonaceous asteroid 162173 Ryugu—A spinning top—shaped rubble pile. <i>Science</i> , 2019, 364, 268-272.	12.6	410
63	The geomorphology, color, and thermal properties of Ryugu: Implications for parent-body processes. <i>Science</i> , 2019, 364, 252.	12.6	313
64	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
65	The MASCOT landing area on asteroid (162173) Ryugu: Stereo-photogrammetric analysis using images of the ONC onboard the Hayabusa2 spacecraft. <i>Astronomy and Astrophysics</i> , 2019, 632, L4.	5.1	9
66	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
67	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
68	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
69	Vis-NIR disk-integrated photometry of asteroid 25143 Itokawa around opposition by AMICA/Hayabusa. <i>Icarus</i> , 2018, 311, 175-196.	2.5	15
70	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
71	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
72	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

#	ARTICLE	IF	CITATIONS
73	Spectral decomposition of asteroid Itokawa based on principal component analysis. <i>Icarus</i> , 2018, 299, 386-395.	2.5	7
74	Numerical modeling of lander interaction with a low-gravity asteroid regolith surface. <i>Astronomy and Astrophysics</i> , 2018, 615, A41.	5.1	31
75	Reflectance spectra of Asteroids and Meteorites: their classifications and statistical comparisons. <i>Journal of Physics: Conference Series</i> , 2018, 1036, 012003.	0.4	3
76	Quantitative Potassium Measurements with Laser-Induced Breakdown Spectroscopy Using Low-Energy Lasers: Application to In Situ ⁴⁰ Ar Geochronology for Planetary Exploration. <i>Applied Spectroscopy</i> , 2017, 71, 1969-1981.	2.2	7
77	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
78	High Pressure Experiments on Metal-Silicate Partitioning of Chlorine in a Magma Ocean: Implications for Terrestrial Chlorine Depletion. <i>Geochemistry, Geophysics, Geosystems</i> , 2017, 18, 3929-3945.	2.5	8
79	Experimental characterization of elastomeric O-rings as reusable seals for mass spectrometric measurements: Application to in situ ⁴⁰ Ar dating on Mars. <i>Advances in Space Research</i> , 2017, 60, 1453-1462.	2.6	2
80	The Camera of the MASCOT Asteroid Lander on Board Hayabusa 2. <i>Space Science Reviews</i> , 2017, 208, 375-400.	8.1	46
81	Ecliptic North-South Symmetry of Hydrogen Geocorona. <i>Geophysical Research Letters</i> , 2017, 44, 11,706.	4.0	30
82	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
83	Cluster analysis on the bulk elemental compositions of Antarctic stony meteorites. <i>Meteoritics and Planetary Science</i> , 2016, 51, 906-919.	1.6	6
84	Shock compression response of forsterite above 250 GPa. <i>Science Advances</i> , 2016, 2, e1600157.	10.3	21
85	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
86	The Camera of the MASCOT Asteroid Lander on Board Hayabusa 2. , 2016, , 375-400.		3
87	Preflight Calibration Test Results for Optical Navigation Camera Telescope (ONC-T) Onboard the Hayabusa2 Spacecraft. , 2016, , 17-31.		0
88	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
89	Crater-ray formation by impact-induced ejecta particles. <i>Icarus</i> , 2015, 250, 215-221.	2.5	18
90	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

#	ARTICLE	IF	CITATIONS
91	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
92	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
93	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
94	Crater Outflow (Venus). , 2015, , 424-428.		0
95	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
96	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
97	Visible-wavelength spectroscopy of subkilometer-sized near-Earth asteroids with a low delta- $\langle v \rangle$. <i>Publication of the Astronomical Society of Japan</i> , 2014, 66, .	2.5	17
98	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
99	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
100	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
101	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
102	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
103	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
104	Evaluation of capillary-induced deformation of thin plates due to liquid column formation. <i>Applied Physics Letters</i> , 2013, 103, 043113.	3.3	3
105	Oxidation of carbon compounds by silica-derived oxygen within impact-induced vapor plumes. <i>Earth, Planets and Space</i> , 2013, 65, 811-822.	2.5	8
106	Flyer acceleration experiments using high-power laser. <i>EPJ Web of Conferences</i> , 2013, 59, 19002.	0.3	1
107	Position-Dependent Behavior of Piezoelectric Lead-Zirconate-Titanate Cosmic Dust Detector. <i>Japanese Journal of Applied Physics</i> , 2012, 51, 098004.	1.5	2
108	Direct measurement of chemical composition of SO _x in impact vapor using a laser gun. , 2012, , .		2

#	ARTICLE	IF	CITATIONS
109	Flyer acceleration by high-power laser and impact experiments at velocities higher than 10 km/s. , 2012, , .		1
110	Time-resolved spectroscopic observations of shockinduced silicate ionization. AIP Conference Proceedings, 2012, , .	0.4	4
111	Young mare volcanism in the Orientale region contemporary with the Procellarum KREEP Terrane (PKT) volcanism peak period $\hat{\approx}$ 1/2 billion years ago. Geophysical Research Letters, 2012, 39, .	4.0	22
112	A semi-analytical on-hugoniot eos of condensed matter using a linear UP-U _s relation. AIP Conference Proceedings, 2012, , .	0.4	8
113	The nature of shock-induced calcite (CaCO ₃) devolatilization in an open system investigated using a two-stage light gas gun. Earth and Planetary Science Letters, 2012, 337-338, 68-76.	4.4	21
114	A new spectral calculation scheme for long-term deformation of Maxwellian planetary bodies. Journal of Geophysical Research, 2012, 117, .	3.3	10
115	Shock-induced silicate vaporization: The role of electrons. Journal of Geophysical Research, 2012, 117, .	3.3	16
116	Laboratory experiments on crater scaling law for sedimentary rocks in the strength regime. Journal of Geophysical Research, 2012, 117, .	3.3	14
117	LCROSS (Lunar Crater Observation and Sensing Satellite) Observation Campaign: Strategies, Implementation, and Lessons Learned. Space Science Reviews, 2012, 167, 93-140.	8.1	19
118	Bayesian spectral deconvolution with the exchange Monte Carlo method. Neural Networks, 2012, 28, 82-89.	5.9	92
119	Investigation of Martian Dust Sample Capture toward Mars Aero-flyby Sample Collection Mission. Transactions of the Japan Society for Aeronautical and Space Sciences Aerospace Technology Japan, 2012, 10, Pk_11-Pk_17.	0.2	5
120	Position-Dependent Behavior of Piezoelectric Lead-Zirconate-Titanate Cosmic Dust Detector. Japanese Journal of Applied Physics, 2012, 51, 098004.	1.5	1
121	Multi-element analysis technique for in-situ planetary exploration by laser-induced breakdown spectroscopy. , 2011, , .		0
122	Replacement and late formation of atmospheric N ₂ on undifferentiated Titan by impacts. Nature Geoscience, 2011, 4, 359-362.	12.9	42
123	A ground-based observation of the LCROSS impact events using the Subaru Telescope. Icarus, 2011, 214, 21-29.	2.5	3
124	<i>EPOXI</i> : COMET 103P/HARTLEY 2 OBSERVATIONS FROM A WORLDWIDE CAMPAIGN. Astrophysical Journal Letters, 2011, 734, L1.	8.3	96
125	A pressure measurement method for high-temperature rock vapor plumes using atomic line broadening. Journal of Geophysical Research, 2010, 115, .	3.3	6
126	Impact-induced N ₂ production from ammonium sulfate: Implications for the origin and evolution of N ₂ in Titan's atmosphere. Icarus, 2010, 209, 715-722.	2.5	21

#	ARTICLE	IF	CITATIONS
127	A hydrocode calculation coupled with reaction kinetics of carbon compounds within an impact vapor plume and its implications for cometary impacts on Galilean satellites. <i>Icarus</i> , 2010, 210, 411-423.	2.5	9
128	Interpretation on Deep Impact results: Radial distribution of ejecta and the size distribution of large-sized grains. <i>Earth, Planets and Space</i> , 2010, 62, 13-16.	2.5	1
129	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
130	In-situ spectroscopic observations of silicate vaporization due to >10 km/s impacts using laser driven projectiles. <i>Geophysical Research Letters</i> , 2010, 37, .	4.0	9
131	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
132	An empirical model for transient crater growth in granular targets based on direct observations. <i>Icarus</i> , 2009, 203, 310-319.	2.5	20
133	Farside Gravity Field of the Moon from Four-Way Doppler Measurements of SELENE (Kaguya). <i>Science</i> , 2009, 323, 900-905.	12.6	169
134	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
135	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
136	Nonstop Mars Sample Return System Using Aerocapture Technologies. , 2009, , .		25
137	IMPACT EXPERIMENTS WITH PROJECTILES AT VELOCITIES HIGHER THAN 10 KM [•] S. , 2009, , .		0
138	Subaru/COMICS Mid-Infrared Spectroscopic Observations of the Dust Plume from Comet 9P/Tempel. <i>Globular Clusters - Guides To Galaxies</i> , 2009, , 131-136.	0.1	0
139	The Subsurface Structure of Comet 9P/Tempel 1 Projected into the Dust Plume. <i>Globular Clusters - Guides To Galaxies</i> , 2009, , 143-146.	0.1	0
140	One Month of Near-IR Imaging Photometry of Comet 9P/Tempel 1. <i>Globular Clusters - Guides To Galaxies</i> , 2009, , 323-328.	0.1	1
141	The role of organic haze in Titan's atmospheric chemistry. <i>Icarus</i> , 2008, 194, 201-211.	2.5	39
142	The role of organic haze in Titan's atmospheric chemistry. <i>Icarus</i> , 2008, 194, 186-200.	2.5	63
143	Hydrodynamical and radiative transfer modeling of meteoroid impacts into Saturn's rings. <i>Icarus</i> , 2008, 194, 623-635.	2.5	12
144	Direct measurements of impact devolatilization of calcite using a laser gun. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	18

#	ARTICLE	IF	CITATIONS
145	Felsic highland crust on Venus suggested by Galileo Near-Infrared Mapping Spectrometer data. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	86
146	Impact vaporization of rocks using a high-power laser. <i>Journal of Physics: Conference Series</i> , 2008, 112, 042014.	0.4	2
147	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
148	The chemical composition of the early terrestrial atmosphere: Formation of a reducing atmosphere from Cl-like material. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	83
149	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
150	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
151	Non-intrusive measurements of crater growth. <i>Icarus</i> , 2007, 188, 506-521.	2.5	38
152	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
153	The role of ricochet impacts on impact vaporization. <i>International Journal of Impact Engineering</i> , 2006, 33, 771-780.	5.0	21
154	The role of Fischer-Tropsch catalysis in Jovian subnebular chemistry. <i>Astronomy and Astrophysics</i> , 2006, 459, 965-968.	5.1	5
155	The role of Fischer-Tropsch catalysis in the origin of methane-rich Titan. <i>Icarus</i> , 2005, 178, 154-164.	2.5	32
156	Velocity distributions of high-velocity ejecta from regolith targets. <i>Icarus</i> , 2005, 178, 264-273.	2.5	15
157	Subaru Telescope Observations of Deep Impact. <i>Science</i> , 2005, 310, 274-278.	12.6	107
158	Deep Impact: Observations from a Worldwide Earth-Based Campaign. <i>Science</i> , 2005, 310, 265-269.	12.6	182
159	Evaluation of mineralogical alteration of micrometeoroid analog materials captured in aerogel. <i>Advances in Space Research</i> , 2004, 34, 2299-2304.	2.6	23
160	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
161	Real-time detector for hypervelocity microparticles using piezoelectric material. <i>Advances in Space Research</i> , 2004, 34, 935-938.	2.6	22
162	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

#	ARTICLE	IF	CITATIONS
163	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
164	Interactions between impact-induced vapor clouds and the ambient atmosphere: 2. Theoretical modeling. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	17
165	Methane production by large iron meteorite impacts on early Earth. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	32
166	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
167	Intensities of atomic lines and molecular bands observed in impact-induced luminescence. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	40
168	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
169	Response of Piezoelectric Lead-Zirconate-Titanate to Hypervelocity Silver Particles. <i>Japanese Journal of Applied Physics</i> , 2003, 42, 1496-1497.	1.5	13
170	Vapor clouds generated by laser ablation and hypervelocity impact. <i>Geophysical Research Letters</i> , 2002, 29, 40-1-40-4.	4.0	22
171	Initiation of Run-Out Flows on Venus by Oblique Impacts. <i>Icarus</i> , 2002, 155, 265-284.	2.5	30
172	Spectroscopic characterization of hypervelocity jetting: Comparison with a standard theory. <i>Journal of Geophysical Research</i> , 1999, 104, 30825-30845.	3.3	42
173	Spectroscopic measurements of vapor clouds due to oblique impacts. <i>Journal of Geophysical Research</i> , 1998, 103, 19427-19441.	3.3	66
174	Evolution of lunar topography by impact processes. <i>Geophysical Research Letters</i> , 1991, 18, 2125-2128.	4.0	1
175	Development of a realtime detector to hypervelocity microparticles using PZT ceramics. , 0, , .		0