

# Satoru Yamamoto

## List of Publications by Year in descending order

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Version: 2024-02-01

63  
papers

1,344  
citations

361413

20  
h-index

345221

36  
g-index

64  
all docs

64  
docs citations

64  
times ranked

1145  
citing authors

#	ARTICLE	IF	CITATIONS
1	Possible mantle origin of olivine around lunar impact basins detected by SELENE. <i>Nature Geoscience</i> , 2010, 3, 533-536.	12.9	184
2	Massive layer of pure anorthosite on the Moon. <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	102
3	Lunar photometric properties at wavelengths 0.5–1.6 $\mu\text{m}$ acquired by SELENE Spectral Profiler and their dependency on local albedo and latitudinal zones. <i>Icarus</i> , 2011, 215, 639-660.	2.5	86
4	Asymmetric crustal growth on the Moon indicated by primitive farside highland materials. <i>Nature Geoscience</i> , 2012, 5, 384-388.	12.9	79
5	Deriving the Absolute Reflectance of Lunar Surface Using SELENE (Kaguya) Multiband Imager Data. <i>Space Science Reviews</i> , 2010, 154, 57-77.	8.1	67
6	Ultramafic impact melt sheet beneath the South Pole–Aitken basin on the Moon. <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	61
7	Olivine-rich exposures in the South Pole-Aitken Basin. <i>Icarus</i> , 2012, 218, 331-344.	2.5	57
8	Geologic structure generated by large impact basin formation observed at the South Pole–Aitken basin on the Moon. <i>Geophysical Research Letters</i> , 2014, 41, 2738-2745.	4.0	49
9	Compositional evidence for an impact origin of the Moon's Procellarum basin. <i>Nature Geoscience</i> , 2012, 5, 775-778.	12.9	45
10	Transient crater growth in granular targets: An experimental study of low velocity impacts into glass sphere targets. <i>Icarus</i> , 2006, 183, 215-224.	2.5	43
11	Non-intrusive measurements of crater growth. <i>Icarus</i> , 2007, 188, 506-521.	2.5	38
12	A new type of pyroclastic deposit on the Moon containing Fe spinel and chromite. <i>Geophysical Research Letters</i> , 2013, 40, 4549-4554.	4.0	38
13	Preflight and In-Flight Calibration of the Spectral Profiler on Board SELENE (Kaguya). <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2011, 49, 4660-4676.	6.3	35
14	One Moon, many measurements 2: Photometric corrections. <i>Icarus</i> , 2013, 226, 127-139.	2.5	33
15	Development of an application scheme for the SELENE/SP lunar reflectance model for radiometric calibration of hyperspectral and multispectral sensors. <i>Planetary and Space Science</i> , 2016, 124, 76-83.	1.7	33
16	One Moon, many measurements 1: Radiance values. <i>Icarus</i> , 2013, 226, 951-963.	2.5	24
17	An explanation of bright areas inside Shackleton Crater at the Lunar South Pole other than water ice deposits. <i>Geophysical Research Letters</i> , 2013, 40, 3814-3818.	4.0	23
18	Velocity Measurements of Impact Ejecta from Regolith Targets. <i>Icarus</i> , 1997, 128, 160-170.	2.5	22

#	ARTICLE	IF	CITATIONS
19	Evidence of impact melt sheet differentiation of the lunar South Pole-Aitken basin. <i>Journal of Geophysical Research E: Planets</i> , 2017, 122, 1672-1686.	3.6	22
20	Measurement of Impact Ejecta from Regolith Targets in Oblique Impacts. <i>Icarus</i> , 2002, 158, 87-97.	2.5	20
21	An empirical model for transient crater growth in granular targets based on direct observations. <i>Icarus</i> , 2009, 203, 310-319.	2.5	20
22	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
23	Crater-ray formation by impact-induced ejecta particles. <i>Icarus</i> , 2015, 250, 215-221.	2.5	18
24	Suppression of Pulmonary Antibacterial Defenses Mechanisms and Lung Damage in Mice Exposed to Fluoride Aerosol. <i>Journal of Toxicology and Environmental Health - Part A: Current Issues</i> , 2001, 62, 485-494.	2.3	16
25	Velocity distributions of high-velocity ejecta from regolith targets. <i>Icarus</i> , 2005, 178, 264-273.	2.5	15
26	Calibration of NIR 2 of Spectral Profiler Onboard Kaguya/SELENE. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2014, 52, 6882-6898.	6.3	14
27	Global occurrence trend of high-Ca pyroxene on lunar highlands and its implications. <i>Journal of Geophysical Research E: Planets</i> , 2015, 120, 831-848.	3.6	13
28	Featureless spectra on the Moon as evidence of residual lunar primordial crust. <i>Journal of Geophysical Research E: Planets</i> , 2015, 120, 2190-2205.	3.6	13
29	Dust mantle of comet 9P/Tempel 1: dynamical constraints on physical properties. <i>Astronomy and Astrophysics</i> , 2013, 550, A72.	5.1	12
30	Impact velocity dependence of transient cratering growth. <i>Journal of Geophysical Research E: Planets</i> , 2017, 122, 1077-1089.	3.6	12
31	High-Temperature Effects on Antibody Response to Viral Antigen in Mice.. <i>Experimental Animals</i> , 1999, 48, 9-14.	1.1	11
32	Comet 9P/Tempel 1: Interpretation with the Deep Impact Results. <i>Astrophysical Journal</i> , 2008, 673, L199-L202.	4.5	11
33	Variation of the lunar highland surface roughness at baseline 0.15-100 km and the relationship to relative age. <i>Geophysical Research Letters</i> , 2014, 41, 1444-1451.	4.0	11
34	An Automated Method for Crater Counting Using Rotational Pixel Swapping Method. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2017, 55, 4384-4397.	6.3	10
35	Ice sublimation of dust particles and their detection in the outer solar system. <i>Earth, Planets and Space</i> , 2010, 62, 57-61.	2.5	9
36	Thermal radiation from dust grains in Edgeworth-Kuiper Belt. <i>Earth, Planets and Space</i> , 1998, 50, 531-537.	2.5	8

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37	Spaceâ€Weathered Anorthosite as Spectral Dâ€Type Material on the Martian Satellites. Geophysical Research Letters, 2018, 45, 1305-1312.	4.0	8
38	Global classification of lunar reflectance spectra obtained by Kaguya (SELENE): Implication for hidden basaltic materials. Icarus, 2019, 321, 407-425.	2.5	8
39	Small bodies and dust in the outer solar system. Advances in Space Research, 2004, 34, 172-178.	2.6	5
40	A formation mechanism for concentric ridges in ejecta surrounding impact craters in a layer of fine glass beads. Icarus, 2013, 225, 298-307.	2.5	5
41	Rotational Pixel Swapping Method for Detection of Circular Features in Binary Images. IEEE Transactions on Geoscience and Remote Sensing, 2015, 53, 710-723.	6.3	5
42	Mission Concepts of Unprecedented Zipangu Underworld of the Moon Exploration (UZUME) Project. Transactions of the Japan Society for Aeronautical and Space Sciences Aerospace Technology Japan, 2016, 14, Pk_147-Pk_150.	0.2	5
43	Surface roughness of alumina fragments caused by hypervelocity impact. Planetary and Space Science, 2006, 54, 212-215.	1.7	4
44	Collisional process on Comet 9/P Tempel 1: Mass loss of its dust and ice by impacts of asteroidal objects and its collisional history. Earth, Planets and Space, 2010, 62, 5-11.	2.5	4
45	Initial Onboard Calibration Results of the HISUI Hyperspectral Sensor. , 2021, , .		4
46	Simulation of operation of future Japanese spaceborne hyperspectral imager: HISUI. , 2011, , .		3
47	Effective observation planning and its simulation of a Japanese spaceborne sensor: Hyperspectral imager suite (HISUI). , 2014, , .		3
48	Velocity distribution of powdery ejecta. Advances in Space Research, 1997, 20, 1581-1584.	2.6	2
49	Operation planning for Japanese future hyperspectral and multispectral sensor: HISUI and usage of cloud climate data. , 2011, , .		2
50	USage of cloud climate data in operation mission plan simulation for Japanese future hyperspectral and multispectral sensor: HISUI. , 2012, , .		2
51	Observation planning and its coverage simulation of a Japanese spaceborne sensor: Hyperspectral Imager Suite (HISUI). , 2013, , .		2
52	Characterization of Dâ€Type Spectra Based on Hyperspectral Remote Sensing of the Lunar Surface. Journal of Geophysical Research E: Planets, 2021, 126, .	3.6	2
53	Global Distribution and Geological Context of Coâ€Existing Occurrences of Olivineâ€Rich and Plagioclaseâ€Rich Materials on the Lunar Surface. Journal of Geophysical Research E: Planets, 2022, 127, .	3.6	2
54	Initial Analysis of Spectral Smile Calibration of Hyperspectral Imager Suite (HISUI) Using Atmospheric Absorption Bands. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-15.	6.3	2

#	ARTICLE	IF	CITATIONS
55	Usability of lunar reflectance model based on SELENE/SP for planned HISUI radiometric calibration. , 2013, , .		1
56	Analysis Based on Onboard Lamp and Lunar Vicarious Calibrations for Sensitivity Degradation of a Hyperspectral Sensor. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-12.	6.3	1
57	Orbital Evolution of the Lunar Ejecta. International Astronomical Union Colloquium, 1996, 150, 47-50.	0.1	0
58	Observation planning strategy of a Japanese spaceborne sensor: hyperspectral imager suite (HISUI). Proceedings of SPIE, 2012, , .	0.8	0
59	Observation planning algorithm of a Japanese spaceborne sensor: Hyperspectral Imager Suite (HISUI). , 2014, , .		0
60	Detection of large point sources of carbon dioxide by a satellite hyperspectral camera. , 2015, , .		0
61	Case studies for observation planning algorithm of a Japanese spaceborne sensor: Hyperspectral Imager Suite (HISUI). Proceedings of SPIE, 2016, , .	0.8	0
62	Observation planning algorithm of a Japanese space-borne sensor: Hyperspectral Imager Suite (HISUI) onboard International Space Station (ISS) as platform. , 2017, , .		0
63	Multi-band bottom index: A novel approach for coastal environmental monitoring using hyperspectral data. Remote Sensing Applications: Society and Environment, 2022, 27, 100797.	1.5	0