

Yasuhito Sekine

List of Publications by Year in descending order

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Version: 2024-02-01

59
papers

1,499
citations

394421

19
h-index

330143

37
g-index

60
all docs

60
docs citations

60
times ranked

1841
citing authors

#	ARTICLE	IF	CITATIONS
1	Enceladus as a potential oasis for life: Science goals and investigations for future explorations. <i>Experimental Astronomy</i> , 2022, 54, 809-847.	3.7	5
2	Reconstruction of pH, redox condition, and concentrations of major components in ancient liquid water from the Karasburg member, Murray formation, Gale Crater, Mars. <i>Geochimica Et Cosmochimica Acta</i> , 2022, 325, 129-151.	3.9	4
3	Concepts for the Future Exploration of Dwarf Planet Ceresâ€™ Habitability. <i>Planetary Science Journal</i> , 2022, 3, 41.	3.6	9
4	Spatially Resolved Observations of Europaâ€™s Surface with Subaru/IRCS at 1.0â€“1.8 Î¼m: Upper Limits to the Abundances of Hydrated Cl-bearing Salts. <i>Planetary Science Journal</i> , 2022, 3, 70.	3.6	4
5	Arsenic and uranium contamination of Orog Lake in the Valley of Gobi Lakes, Mongolia: Field evidence of conservative accumulation of U in an alkaline, closed-basin lake during evaporation. <i>Journal of Hazardous Materials</i> , 2022, 436, 129017.	12.4	10
6	Waterâ€“rock interactions within icy worlds. <i>Nature Astronomy</i> , 2022, 6, 525-526.	10.1	0
7	Characterization of groundwater chemistry beneath Gale Crater on early Mars by hydrothermal experiments. <i>Icarus</i> , 2022, 386, 115149.	2.5	0
8	The role of hydrothermal sulfate reduction in the sulfur cycles within Europa: Laboratory experiments on sulfate reduction at 100Â MPa. <i>Icarus</i> , 2021, 357, 114222.	2.5	13
9	An experimental study of photo-oxidation of Fe(II): Implications for the formation of Fe(III) (hydro)oxides on early Mars and Earth. <i>Geochimica Et Cosmochimica Acta</i> , 2021, 299, 35-51.	3.9	16
10	Progressive ocean oxygenation at 2.2 Ga inferred from geochemistry and molybdenum isotopes of the Nsuta Mn deposit, Ghana. <i>Chemical Geology</i> , 2021, 567, 120116.	3.3	6
11	Stability of Atmospheric Redox States of Early Mars Inferred from Time Response of the Regulation of H and O Losses. <i>Astrophysical Journal</i> , 2021, 912, 135.	4.5	6
12	Doubly substituted isotopologues of methane hydrate (¹³ CH ₃ D and ¹² CH ₂ D ₂): Implications for methane clumped isotope effects, source apportionments and global hydrate reservoirs. <i>Geochimica Et Cosmochimica Acta</i> , 2021, 315, 127-151.	3.9	21
13	Field Investigations of Chemical Partitioning and Aqueous Chemistry of Freezing Closed-Basin Lakes in Mongolia as Analogs of Subsurface Brines on Icy Bodies. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, e2021JE006972.	3.6	2
14	Anaerobic Microscopic Analysis of Ferrous Saponite and Its Sensitivity to Oxidation by Earthâ€™s Air: Lessons Learned for Analysis of Returned Samples from Mars and Carbonaceous Asteroids. <i>Minerals (Basel, Switzerland)</i> , 2021, 11, 1244.	2.0	4
15	In Situ Formation of Monohydrocalcite in Alkaline Saline Lakes of the Valley of Gobi Lakes: Prediction for Mg, Ca, and Total Dissolved Carbonate Concentrations in Enceladusâ€™ Ocean and Alkaline-Carbonate Ocean Worlds. <i>Minerals (Basel, Switzerland)</i> , 2020, 10, 669.	2.0	12
16	Hydrogeochemical Study on Closed-Basin Lakes in Cold and Semi-Arid Climates of the Valley of the Gobi Lakes, Mongolia: Implications for Hydrology and Water Chemistry of Paleolakes on Mars. <i>Minerals (Basel, Switzerland)</i> , 2020, 10, 792.	2.0	11
17	Relict Ocean Worlds: Ceres. <i>Space Science Reviews</i> , 2020, 216, 1.	8.1	14
18	Experimental and Simulation Efforts in the Astrobiological Exploration of Exooceans. <i>Space Science Reviews</i> , 2020, 216, 9.	8.1	25

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19	A framework for understanding Mo isotope records of Archean and Paleoproterozoic Fe- and Mn-rich sedimentary rocks: Insights from modern marine hydrothermal Fe-Mn oxides. <i>Geochimica Et Cosmochimica Acta</i> , 2020, 280, 221-236.	3.9	17
20	Semiarid climate and hyposaline lake on early Mars inferred from reconstructed water chemistry at Gale. <i>Nature Communications</i> , 2019, 10, 4896.	12.8	49
21	Highly Oxidizing Aqueous Environments on Early Mars Inferred From Scavenging Pattern of Trace Metals on Manganese Oxides. <i>Journal of Geophysical Research E: Planets</i> , 2019, 124, 1282-1295.	3.6	19
22	Pluto's ocean is capped and insulated by gas hydrates. <i>Nature Geoscience</i> , 2019, 12, 407-410.	12.9	101
23	Enceladus: Evidence and Unsolved Questions for an Ice-Covered Habitable World. , 2019, , 399-407.		1
24	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
25	An experimental study on impact-induced alterations of planetary organic simulants. <i>Meteoritics and Planetary Science</i> , 2018, 53, 1267-1282.	1.6	4
26	Depositional processes of impactites from the YAXC1 drill core in the Chicxulub impact structure inferred from vertical profiles of PDF orientations and grain size distributions of shocked quartz. <i>Meteoritics and Planetary Science</i> , 2018, 53, 1323-1340.	1.6	2
27	The Charon-forming giant impact as a source of Pluto's dark equatorial regions. <i>Nature Astronomy</i> , 2017, 1, .	10.1	28
28	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
29	Transition to an oxygen-rich atmosphere with an extensive overshoot triggered by the Paleoproterozoic snowball Earth. <i>Earth and Planetary Science Letters</i> , 2015, 419, 178-186.	4.4	17
30	Ongoing hydrothermal activities within Enceladus. <i>Nature</i> , 2015, 519, 207-210.	27.8	382
31	High-temperature water-rock interactions and hydrothermal environments in the chondrite-like core of Enceladus. <i>Nature Communications</i> , 2015, 6, 8604.	12.8	152
32	Rotational Pixel Swapping Method for Detection of Circular Features in Binary Images. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2015, 53, 710-723.	6.3	5
33	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
34	Planetary protection on international waters: An onboard protocol for capsule retrieval and biosafety control in sample return mission. <i>Advances in Space Research</i> , 2014, 53, 1135-1142.	2.6	7
35	Drainage systems of Lonar Crater, India: Contributions to Lonar Lake hydrology and crater degradation. <i>Planetary and Space Science</i> , 2014, 95, 45-55.	1.7	36
36	Formation and geomorphologic history of the Lonar impact crater deduced from in situ cosmogenic ¹⁰ B and ²⁶ Al. <i>Geochemistry, Geophysics, Geosystems</i> , 2014, 15, 3190-3197.	2.5	16

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37	Exploration of Enceladus's Water-Rich Plumes toward Understanding of Chemistry and Biology of the Interior Ocean. Transactions of the Japan Society for Aeronautical and Space Sciences Aerospace Technology Japan, 2014, 12, Tk_7-Tk_11.	0.2	5
38	Hydrogen Cyanide Production due to Mid-Size Impacts in a Redox-Neutral N ₂ -Rich Atmosphere. Origins of Life and Evolution of Biospheres, 2013, 43, 221-245.	1.9	27
39	Redox conditions in the atmosphere and shallow-marine environments during the first Huronian deglaciation: Insights from Os isotopes and redox-sensitive elements. Earth and Planetary Science Letters, 2013, 376, 145-154.	4.4	9
40	Formation of a Nitrogen-Rich Atmosphere on Titan: A Review of Pre- and Post-Cassini-Huygens Knowledge. Thirty Years of Astronomical Discovery With UKIRT, 2013, , 107-122.	0.3	1
41	Aqueous environmental history of Mars revealed by mineralogy and geochemistry of outcrop exposures of sedimentary rocks. Journal of the Geological Society of Japan, 2012, 118, 650-663.	0.6	1
42	LCROSS (Lunar Crater Observation and Sensing Satellite) Observation Campaign: Strategies, Implementation, and Lessons Learned. Space Science Reviews, 2012, 167, 93-140.	8.1	19
43	Giant impacts in the Saturnian system: A possible origin of diversity in the inner mid-sized satellites. Planetary and Space Science, 2012, 63-64, 133-138.	1.7	34
44	Manganese enrichment in the Gowganda Formation of the Huronian Supergroup: A highly oxidizing shallow-marine environment after the last Huronian glaciation. Earth and Planetary Science Letters, 2011, 307, 201-210.	4.4	29
45	OXIDIZING PROTO-ATMOSPHERE ON TITAN: CONSTRAINT FROM N ₂ FORMATION BY IMPACT SHOCK. Astrophysical Journal Letters, 2011, 741, L10.	8.3	11
46	Replacement and late formation of atmospheric N ₂ on undifferentiated Titan by impacts. Nature Geoscience, 2011, 4, 359-362.	12.9	42
47	A ground-based observation of the LCROSS impact events using the Subaru Telescope. Icarus, 2011, 214, 21-29.	2.5	3
48	Osmium evidence for synchronicity between a rise in atmospheric oxygen and Palaeoproterozoic deglaciation. Nature Communications, 2011, 2, 502.	12.8	16
49	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
50	Anomalous negative excursion of carbon isotope in organic carbon after the last Paleoproterozoic glaciation in North America. Geochemistry, Geophysics, Geosystems, 2010, 11, .	2.5	7
51	In-situ spectroscopic observations of silicate vaporization due to >10 km/s impacts using laser driven projectiles. Geophysical Research Letters, 2010, 37, .	4.0	9
52	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. Earth and Planetary Science Letters, 2009, 282, 56-64.	4.4	35
53	The role of organic haze in Titan's atmospheric chemistry. Icarus, 2008, 194, 201-211.	2.5	39
54	The role of organic haze in Titan's atmospheric chemistry. Icarus, 2008, 194, 186-200.	2.5	63

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55	Optical and chemical properties of tholins. Proceedings of the International Astronomical Union, 2008, 4, 441-442.	0.0	1
56	An experimental study on Fischer-Tropsch catalysis: Implications for impact phenomena and nebular chemistry. Meteoritics and Planetary Science, 2006, 41, 715-729.	1.6	23
57	The role of Fischer-Tropsch catalysis in the origin of methane-rich Titan. Icarus, 2005, 178, 154-164.	2.5	32
58	Evaluation of mineralogical alteration of micrometeoroid analog materials captured in aerogel. Advances in Space Research, 2004, 34, 2299-2304.	2.6	23
59	Methane production by large iron meteorite impacts on early Earth. Journal of Geophysical Research, 2003, 108, .	3.3	32