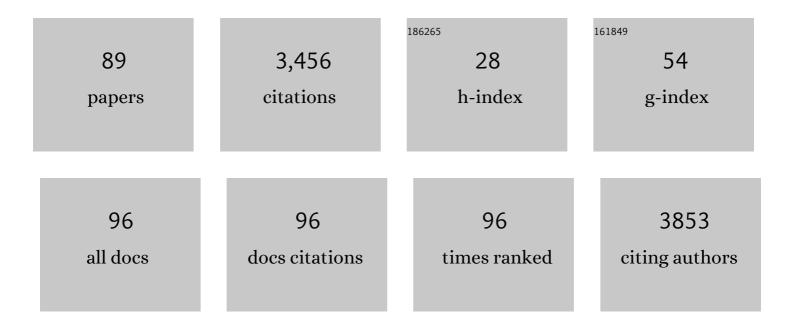
List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Determination of aquatic foodâ€web structure based on compoundâ€specific nitrogen isotopic composition of amino acids. Limnology and Oceanography: Methods, 2009, 7, 740-750.	2.0	507
2	Isolation of an archaeon at the prokaryote–eukaryote interface. Nature, 2020, 577, 519-525.	27.8	449
3	Advances in the application of amino acid nitrogen isotopic analysis in ecological and biogeochemical studies. Organic Geochemistry, 2017, 113, 150-174.	1.8	213
4	Preliminary analysis of the Hayabusa2 samples returned from C-type asteroid Ryugu. Nature Astronomy, 2022, 6, 214-220.	10.1	136
5	Asymmetric synthesis of amino acid precursors in interstellar complex organics by circularly polarized light. Earth and Planetary Science Letters, 2007, 254, 106-114.	4.4	103
6	Sedimentary membrane lipids recycled by deep-sea benthic archaea. Nature Geoscience, 2010, 3, 858-861.	12.9	103
7	Abundance of <i>Zetaproteobacteria</i> within crustal fluids in backâ€arc hydrothermal fields of the Southern Mariana Trough. Environmental Microbiology, 2009, 11, 3210-3222.	3.8	93
8	Biogeography and Biodiversity in Sulfide Structures of Active and Inactive Vents at Deep-Sea Hydrothermal Fields of the Southern Mariana Trough. Applied and Environmental Microbiology, 2010, 76, 2968-2979.	3.1	88
9	Hayabusa2 Sampler: Collection of Asteroidal Surface Material. Space Science Reviews, 2017, 208, 81-106.	8.1	84
10	Microbial Community Structure, Pigment Composition, and Nitrogen Source of Red Snow in Antarctica. Microbial Ecology, 2010, 59, 466-475.	2.8	74
11	Isolation and desalting with cation-exchange chromatography for compound-specific nitrogen isotope analysis of amino acids: application to biogeochemical samples. Rapid Communications in Mass Spectrometry, 2010, 24, 2317-2323.	1.5	72
12	Nucleobase synthesis in interstellar ices. Nature Communications, 2019, 10, 4413.	12.8	65
13	Diet quality influences isotopic discrimination among amino acids in an aquatic vertebrate. Ecology and Evolution, 2015, 5, 2048-2059.	1.9	64
14	X-ray absorption near edge structure spectroscopic study of Hayabusa category 3 carbonaceous particles. Earth, Planets and Space, 2014, 66, .	2.5	58
15	Identifying the wide diversity of extraterrestrial purine and pyrimidine nucleobases in carbonaceous meteorites. Nature Communications, 2022, 13, 2008.	12.8	53
16	Diversity of sulfur-cycle prokaryotes in freshwater lake sediments investigated using aprA as the functional marker gene. Systematic and Applied Microbiology, 2013, 36, 436-443.	2.8	48
17	Fractionation of nitrogen isotopes during amino acid metabolism in heterotrophic and chemolithoautotrophic microbes across Eukarya, Bacteria, and Archaea: Effects of nitrogen sources and metabolic pathways. Organic Geochemistry, 2017, 111, 101-112.	1.8	46
18	The Importance of Phobos Sample Return for Understanding the Mars-Moon System. Space Science Reviews, 2020, 216, 1.	8.1	45

#	Article	IF	CITATIONS
19	Hayabusa2 Sample Catcher and Container: Metal-Seal System for Vacuum Encapsulation of Returned Samples with Volatiles and Organic Compounds Recovered from C-Type Asteroid Ryugu. Space Science Reviews, 2017, 208, 107-124.	8.1	39
20	Sequential analysis of carbonaceous materials in Hayabusa-returned samples for the determination of their origin. Earth, Planets and Space, 2014, 66, .	2.5	36
21	Abiotic synthesis of high-molecular-weight organics from an inorganic gas mixture of carbon monoxide, ammonia, and water by 3 MeV proton irradiation. Applied Physics Letters, 2004, 84, 1410-1412.	3.3	35
22	Mineralogy and Isotope Geochemistry of Active Submarine Hydrothermal Field at Suiyo Seamount, Izu–Bonin Arc, West Pacific Ocean. Resource Geology, 2008, 58, 220-248.	0.8	35
23	Amino acids in water samples from deep sea hydrothermal vents at Suiyo Seamount, Izu-Bonin Arc, Pacific Ocean. Organic Geochemistry, 2004, 35, 1121-1128.	1.8	34
24	lsolation of underivatized amino acids by ion-pair high performance liquid chromatography for precise measurement of nitrogen isotopic composition of amino acids: Development of comprehensive LC × GC/C/IRMS method. International Journal of Mass Spectrometry, 2015, 379, 16-25.	1.5	32
25	Returning Samples From Enceladus for Life Detection. Frontiers in Astronomy and Space Sciences, 2020, 7, .	2.8	32
26	Extraterrestrial hexamethylenetetramine in meteorites—a precursor of prebiotic chemistry in the inner solar system. Nature Communications, 2020, 11, 6243.	12.8	32
27	Quantitative Analysis of Coenzyme F430 in Environmental Samples: A New Diagnostic Tool for Methanogenesis and Anaerobic Methane Oxidation. Analytical Chemistry, 2014, 86, 3633-3638.	6.5	31
28	H, C, and N isotopic compositions of Hayabusa category 3 organic samples. Earth, Planets and Space, 2014, 66, 91.	2.5	31
29	Quantitative analysis of underivatized amino acids in the sub- to several-nanomolar range by ion-pair HPLC using a corona-charged aerosol detector (HPLC–CAD). Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2018, 1095, 191-197.	2.3	28
30	Holocene lake development and glacial-isostatic uplift at Lake Skallen and Lake Oyako, Lützow-Holm Bay, East Antarctica: Based on biogeochemical facies and molecular signatures. Applied Geochemistry, 2012, 27, 2546-2559.	3.0	27
31	DEUTERIUM FRACTIONATION DURING AMINO ACID FORMATION BY PHOTOLYSIS OF INTERSTELLAR ICE ANALOGS CONTAINING DEUTERATED METHANOL. Astrophysical Journal Letters, 2016, 827, L18.	8.3	26
32	d -Amino acids in molecular evolution in space – Absolute asymmetric photolysis and synthesis of amino acids by circularly polarized light. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2018, 1866, 743-758.	2.3	25
33	Amino acids in the 308°C deep-sea hydrothermal system of the Suiyo Seamount, Izu-Bonin Arc, Pacific Ocean. Earth and Planetary Science Letters, 2004, 219, 147-153.	4.4	24
34	A new analytical method for determination of the nitrogen isotopic composition of methionine: Its application to aquatic ecosystems with mixed resources. Limnology and Oceanography: Methods, 2018, 16, 607-620.	2.0	23
35	Compound-Specific Nitrogen Isotope Analysis of <scp>d</scp> -Alanine, <scp>l</scp> -Alanine, and Valine: Application of Diastereomer Separation to Ĩ <sup>15</sup> N and Microbial Peptidoglycan Studies. Analytical Chemistry, 2009, 81, 394-399.	6.5	22
36	Amino acid compositions in heated carbonaceous chondrites and their compound-specific nitrogen isotopic ratios. Earth, Planets and Space, 2016, 68, .	2.5	22

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37	A new insight into isotopic fractionation associated with decarboxylation in organisms: implications for amino acid isotope approaches in biogeoscience. Progress in Earth and Planetary Science, 2020, 7, .	3.0	22
38	A micro-Raman and infrared study of several Hayabusa category 3 (organic) particles. Earth, Planets and Space, 2015, 67, 20.	2.5	21
39	Pyrolysis of High-Molecular-Weight Complex Organics Synthesized from a Simulated Interstellar Gas Mixture Irradiated with 3 MeV Proton Beam. Bulletin of the Chemical Society of Japan, 2004, 77, 779-783.	3.2	20
40	Detection of coenzyme F430 in deep sea sediments: A key molecule for biological methanogenesis. Organic Geochemistry, 2013, 58, 137-140.	1.8	20
41	ToF-SIMS analysis of carbonaceous particles in the sample catcher of the Hayabusa spacecraft. Earth, Planets and Space, 2015, 67, .	2.5	20
42	Improved Method for Isolation and Purification of Underivatized Amino Acids for Radiocarbon Analysis. Analytical Chemistry, 2018, 90, 12035-12041.	6.5	20
43	Peptide Synthesis under the Alkaline Hydrothermal Conditions on Enceladus. ACS Earth and Space Chemistry, 2019, 3, 2559-2568.	2.7	20
44	Possible cometary organic compounds as sources of planetary biospheres. Advances in Space Research, 2004, 33, 1277-1281.	2.6	18
45	Intraâ€trophic isotopic discrimination of <sup>15</sup> N/ <sup>14</sup> N for amino acids in autotrophs: Implications for nitrogen dynamics in ecological studies. Ecology and Evolution, 2017, 7, 2916-2924.	1.9	18
46	Biological origin for amino acids in a deep subterranean hydrothermal vent, Toyoha mine, Hokkaido, Japan. Organic Geochemistry, 2003, 34, 1491-1496.	1.8	17
47	Phosphatase and microbial activity with biochemical indicators in semi-permafrost active layer sediments over the past 10,000 years. Applied Geochemistry, 2006, 21, 48-57.	3.0	17
48	Organic Analysis of Peridotite Rocks from the Ashadze and Logatchev Hydrothermal Sites. International Journal of Molecular Sciences, 2009, 10, 2986-2998.	4.1	17
49	Nitrogen Isotopic Fractionation in Ammonia during Adsorption on Silicate Surfaces. ACS Earth and Space Chemistry, 2017, 1, 24-29.	2.7	17
50	Precometary organic matter: A hidden reservoir of water inside the snow line. Scientific Reports, 2020, 10, 7755.	3.3	16
51	Suitable Pretreatment Method for the Determination of Amino Acids and Their D/L Ratios in Soil Samples Bunseki Kagaku, 2003, 52, 35-40.	0.2	15
52	Vertical distribution of amino acids and chiral ratios in deep sea hydrothermal sub-vents of the Suiyo Seamount, Izu-Bonin Arc, Pacific Ocean. Organic Geochemistry, 2004, 35, 1105-1120.	1.8	15
53	Evidence of sub-vent biosphere: enzymatic activities in 308 °C deep-sea hydrothermal systems at Suiyo seamount, Izu–Bonin Arc, Western Pacific Ocean. Earth and Planetary Science Letters, 2005, 229, 193-203.	4.4	15
54	Insight into anaerobic methanotrophy from 13C/12C- amino acids and 14C/12C-ANME cells in seafloor microbial ecology. Scientific Reports, 2018, 8, 14070.	3.3	15

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55	A method for stable carbon isotope measurement of underivatized individual amino acids by multiâ€dimensional highâ€performance liquid chromatography and elemental analyzer/isotope ratio mass spectrometry. Rapid Communications in Mass Spectrometry, 2020, 34, e8885.	1.5	15
56	Pyrolysis of complex organics following high-energy proton irradiationof a simple inorganic gas mixture. Applied Physics Letters, 2004, 85, 1633-1635.	3.3	14
57	Distribution of amino acid and its stereochemistry related with biological activities in Rikubetsu, Hokkaido, Japan. Geochemical Journal, 2004, 38, 153-161.	1.0	14
58	Quantification and Carbon and Nitrogen Isotopic Measurements of Heme B in Environmental Samples. Analytical Chemistry, 2020, 92, 11213-11222.	6.5	14
59	Large Enantiomeric Excesses of L-Form Amino Acids in Deep-sea Hydrothermal Sub-vent of 156 °C Fluids at the Suiyo Seamount, Izu–Bonin Arc, Pacific Ocean. Chemistry Letters, 2003, 32, 970-971.	1.3	13
60	Synthesis of amino acid precursors from simulated interstellar media by highâ€energy particles or photons. Electronics and Communications in Japan, 2008, 91, 15-21.	0.5	13
61	Deuterium Fractionation upon the Formation of Hexamethylenetetramines through Photochemical Reactions of Interstellar Ice Analogs Containing Deuterated Methanol Isotopologues. Astrophysical Journal, 2017, 849, 122.	4.5	13
62	Amino Acid Precursors from Carbon Monoxide in Simulated Interstellar Dust Ice Mantle by UV Irradiation at 10 K. Chemistry Letters, 2003, 32, 612-613.	1.3	12
63	Further characterization of carbonaceous materials in Hayabusaâ€returned samples to understand their origin. Meteoritics and Planetary Science, 2019, 54, 638-666.	1.6	12
64	Primordial organic matter in the xenolithic clast in the Zag H chondrite: Possible relation to D/P asteroids. Geochimica Et Cosmochimica Acta, 2020, 271, 61-77.	3.9	12
65	Environmental assessment in the prelaunch phase of Hayabusa2 for safety declaration of returned samples from the asteroid (162173) Ryugu: background monitoring and risk management during development of the sampler system. Earth, Planets and Space, 2022, 74, .	2.5	11
66	Emergence of the inflection point on racemization rate constants for d- and l-amino acids in the early stages of terrestrial diagenesis. Organic Geochemistry, 2006, 37, 334-341.	1.8	9
67	Prebiotic Organic Microstructures. Origins of Life and Evolution of Biospheres, 2012, 42, 307-316.	1.9	9
68	Beryllium isotopes in sediments from Lake Maruwan Oike and Lake Skallen, East Antarctica, reveal substantial glacial discharge during the late Holocene. Quaternary Science Reviews, 2021, 256, 106841.	3.0	9
69	The GAs Extraction and Analyses system (GAEA) for immediate extraction and measurements of volatiles in the Hayabusa2 sample container. Earth, Planets and Space, 2022, 74, .	2.5	9
70	Amino acids on witness coupons collected from the ISAS/JAXA curation facility for the assessment and quality control of the Hayabusa2 sampling procedure. Earth, Planets and Space, 2018, 70, .	2.5	8
71	Analytical protocols for Phobos regolith samples returned by the Martian Moons eXploration (MMX) mission. Earth, Planets and Space, 2021, 73, 120.	2.5	8
72	Chemical assessment of the explosive chamber in the projector system of Hayabusa2 for asteroid sampling. Earth, Planets and Space, 2020, 72, .	2.5	8

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73	Characterization of Organic Aggregates Formed by Heating Products of Simulated Primitive Earth Atmosphere Experiments. Chemistry Letters, 2012, 41, 441-443.	1.3	7
74	Amino Acid Precursors from a Simulated Lower Atmosphere of Titan: Experiments of Cosmic Ray Energy Source with 13C- and 18O-Stable Isotope Probing Mass Spectrometry. Analytical Sciences, 2013, 29, 777-785.	1.6	7
75	Planetary protection on international waters: An onboard protocol for capsule retrieval and biosafety control in sample return mission. Advances in Space Research, 2014, 53, 1135-1142.	2.6	7
76	Estimation of methanogenesis by quantification of coenzyme F430 in marine sediments. Geochemical Journal, 2016, 50, 453-460.	1.0	7
77	Biogeochemistry and limnology in Antarctic subglacial weathering: molecular evidence of the linkage between subglacial silica input and primary producers in a perennially ice-covered lake. Progress in Earth and Planetary Science, 2015, 2, .	3.0	6
78	Origin of Deep Methane Associated with a Unique Community of Microorganisms in an Organic- and Iodine-Rich Aquifer. ACS Earth and Space Chemistry, 2021, 5, 1-11.	2.7	6
79	Insights into the Methanogenic Population and Potential in Subsurface Marine Sediments Based on Coenzyme F430 as a Function-Specific Biomarker. Jacs Au, 2021, 1, 1743-1751.	7.9	6
80	Molecular and isotopic compositions of nitrogen-containing organic molecules formed during UV-irradiation of simulated interstellar ice. Geochemical Journal, 2019, 53, 5-20.	1.0	6
81	Stability of Amino Acids and Related Compounds in Simulated Submarine Hydrothermal Systems. Bulletin of the Chemical Society of Japan, 2012, 85, 624-630.	3.2	5
82	Analytical development of seamless procedures on cation-exchange chromatography and ion-pair chromatography with high-precision mass spectrometry for short-chain peptides. International Journal of Mass Spectrometry, 2021, 463, 116529.	1.5	4
83	A diatomâ€inferred record of lake variability during the last 900 years in Lützow–Holm Bay, East Antarctica. Journal of Quaternary Science, 2016, 31, 114-125.	2.1	3
84	Detection of planktonic coenzyme factor 430 in a freshwater lake: small-scale analysis for probing archaeal methanogenesis. Progress in Earth and Planetary Science, 2021, 8, .	3.0	3
85	Formation of amino acid precursors with large molecular weight in dense clouds and their relevance to origins of bio-homochirality. Proceedings of the International Astronomical Union, 2008, 4, 465-472.	0.0	2
86	Prebiotic Organic Microstructures. Nature Precedings, 0, , .	0.1	2
87	Prebiotic Organic Globules. Nature Precedings, 2010, , .	0.1	1
88	Suspected meteorite fragments in marine sediments from East Antarctica. Antarctic Science, 2018, 30, 307-321.	0.9	1
89	Origin of Deep Methane from Active Faults along the Itoigawa–Shizuoka Tectonic Line between the Eurasian and North American Plates: <sup>13</sup> C/ <sup>12</sup> C and <sup>14</sup> C/ <sup>12</sup> C Methane Profiles from a Pull-Apart Basin at Lake Suwa. ACS Earth and Space Chemistry. 0	2.7	0