Hiroshi Naraoka

List of Publications by Year
in descending order

109	4,433	134610	129628
papers	citations	34 h-index	63 g-index

109	109	109	4312
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Samples returned from the asteroid Ryugu are similar to Ivuna-type carbonaceous meteorites. Science, 2023, 379, .	6.0	97
2	Preliminary analysis of the Hayabusa2 samples returned from C-type asteroid Ryugu. Nature Astronomy, 2022, 6, 214-220.	4.2	136
3	Identifying the wide diversity of extraterrestrial purine and pyrimidine nucleobases in carbonaceous meteorites. Nature Communications, 2022, 13, 2008.	5.8	53
4	Synthesis of Amino Acids from Aldehydes and Ammonia: Implications for Organic Reactions in Carbonaceous Chondrite Parent Bodies. ACS Earth and Space Chemistry, 2022, 6, 1311-1320.	1.2	11
5	Marine osmium isotope record during the Carnian â€œpluvial episodeâ€•(Late Triassic) in the pelagic Panthalassa Ocean. Global and Planetary Change, 2021, 197, 103387.	1.6	33
6	Interactions between organic compounds and olivine under aqueous conditions: A potential role for organic distribution in carbonaceous chondrites. Meteoritics and Planetary Science, 2021, 56, 195-205.	0.7	4
7	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.	0.7	4
8	Extraterrestrial hydroxy amino acids in CM and CR carbonaceous chondrites. Meteoritics and Planetary Science, 2021, 56, 1005-1023.	0.7	4
9	Assessing the debris generated by the small carry-on impactor operated from the <i>Hayabusa2</i> mission. Geochemical Journal, 2021, 55, 223-239.	0.5	4
10	Extraterrestrial hexamethylenetetramine in meteoritesâ€”a precursor of prebiotic chemistry in the inner solar system. Nature Communications, 2020, 11, 6243.	5.8	32
11	Precometary organic matter: A hidden reservoir of water inside the snow line. Scientific Reports, 2020, 10, 7755.	1.6	16
12	Three-dimensional high-performance liquid chromatographic analysis of chiral amino acids in carbonaceous chondrites. Journal of Chromatography A, 2020, 1625, 461255.	1.8	18
13	New Applications of High-Resolution Analytical Methods to Study Trace Organic Compounds in Extraterrestrial Materials. Life, 2019, 9, 62.	1.1	9
14	Nucleobase synthesis in interstellar ices. Nature Communications, 2019, 10, 4413.	5.8	65
15	Simultaneous total analysis of core and polar membrane lipids in archaea by highâ€performance liquid chromatography/highâ€resolution mass spectrometry coupled with heated electrospray ionization. Rapid Communications in Mass Spectrometry, 2019, 33, 1571-1577.	0.7	5
16	Profiling Murchison Soluble Organic Matter for New Organic Compounds with APPI- and ESI-FT-ICR MS. Life, 2019, 9, 48.	1.1	15
17	Highâ€mass resolution molecular imaging of organic compounds on the surface of Murchison meteorite. Meteoritics and Planetary Science, 2019, 54, 452-468.	0.7	15
18	Further characterization of carbonaceous materials in Hayabusaâ€returned samples to understand their origin. Meteoritics and Planetary Science, 2019, 54, 638-666.	0.7	12

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19	Ultraviolet-photon fingerprints on chondritic large organic molecules. Geochemical Journal, 2019, 53, 21-32.	0.5	19
20	Distinct distribution of soluble N-heterocyclic compounds between CM and CR chondrites. Geochemical Journal, 2019, 53, 33-40.	0.5	17
21	Bulk chemical characteristics of soluble polar organic molecules formed through condensation of formaldehyde: Comparison with soluble organic molecules in Murchison meteorite. Geochemical Journal, 2019, 53, 41-51.	0.5	7
22	Preface: Evolution of molecules in space: From interstellar clouds to protoplanetary nebulae. Geochemical Journal, 2019, 53, 1-3.	0.5	1
23	In situ organic compound analysis on a meteorite surface by desorption electrospray ionization coupled with an Orbitrap mass spectrometer. Rapid Communications in Mass Spectrometry, 2018, 32, 959-964.	0.7	17
24	Formation of Diastereoisomeric Piperazine-2,5-dione from dl-Alanine in the Presence of Olivine and Water. Origins of Life and Evolution of Biospheres, 2017, 47, 83-92.	0.8	6
25	A new family of extraterrestrial amino acids in the Murchison meteorite. Scientific Reports, 2017, 7, 636.	1.6	117
26	Molecular Evolution of N-Containing Cyclic Compounds in the Parent Body of the Murchison Meteorite. ACS Earth and Space Chemistry, 2017, 1, 540-550.	1.2	34
27	Deuterium Fractionation upon the Formation of Hexamethylenetetramines through Photochemical Reactions of Interstellar Ice Analogs Containing Deuterated Methanol Isotopologues. Astrophysical Journal, 2017, 849, 122.	1.6	13
28	Carbon isotope ratios of organic matter in Bering Sea settling particles: Extremely high remineralization of organic carbon derived from diatoms. Geochemical Journal, 2016, 50, 241-248.	0.5	4
29	ToF-SIMS analysis of carbonaceous particles in the sample catcher of the Hayabusa spacecraft. Earth, Planets and Space, 2015, 67, .	0.9	20
30	A micro-Raman and infrared study of several Hayabusa category 3 (organic) particles. Earth, Planets and Space, 2015, 67, 20.	0.9	21
31	Carbon isotopes in <i>Sphagnum</i> from Kyushu, Japan, and their relationship with local climate. Geochemical Journal, 2015, 49, 495-502.	0.5	3
32	Insoluble Organic Matter. , 2015, , 1202-1203.		0
33	Enantioselective Determination of Extraterrestrial Amino Acids Using a Two-Dimensional Chiral High-Performance Liquid Chromatographic System. Chromatography, 2014, 35, 103-110.	0.8	32
34	X-ray absorption near edge structure spectroscopic study of Hayabusa category 3 carbonaceous particles. Earth, Planets and Space, 2014, 66, .	0.9	58
35	Sequential analysis of carbonaceous materials in Hayabusa-returned samples for the determination of their origin. Earth, Planets and Space, 2014, 66, .	0.9	36
36	Oxygen, iron, and sulfur geochemical cycles on early Earth: Paradigms and contradictions. , 2014, , .		4

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37	Investigation of cutting methods for small samples of Hayabusa and future sample return missions. Meteoritics and Planetary Science, 2014, 49, 1186-1201.	0.7	3
38	H, C, and N isotopic compositions of Hayabusa category 3 organic samples. Earth, Planets and Space, 2014, 66, 91.	0.9	31
39	Two homologous series of alkylpyridines in the Murchison meteorite. Geochemical Journal, 2014, 48, 519-525.	0.5	24
40	Insoluble Organic Matter. , 2014, , 1-2.		0
41	Distribution and isotopic signatures of archaeal lipid biomarkers associated with gas hydrate occurrences on the northern Cascadia Margin. Chemical Geology, 2013, 343, 76-84.	1.4	9
42	Preliminary organic compound analysis of microparticles returned from Asteroid 25143 Itokawa by the Hayabusa mission. Geochemical Journal, 2012, 46, 61-72.	0.5	39
43	Late Permian to Early Triassic environmental changes in the Panthalassic Ocean: Record from the seamount-associated deep-marine siliceous rocks, central Japan. Palaeogeography, Palaeoclimatology, Palaeoecology, 2012, 363-364, 1-10.	1.0	25
44	Domainâ€level identification and quantification of relative prokaryotic cell abundance in microbial communities by Microâ€FTIR spectroscopy. Environmental Microbiology Reports, 2012, 4, 42-49.	1.0	21
45	Stable hydrogen isotope measurement of archaeal ether-bound hydrocarbons. Organic Geochemistry, 2011, 42, 166-172.	0.9	26
46	Extreme oxygen isotope anomaly with a solar origin detected in meteoritic organics. Nature Geoscience, 2011, 4, 165-168.	5.4	24
47	PALEOHYDROGRAPHIC INFLUENCES ON PERMIAN RADIOLARIANS IN THE LAMAR LIMESTONE, GUADALUPE MOUNTAINS, WEST TEXAS, ELUCIDATED BY ORGANIC BIOMARKER AND STABLE ISOTOPE GEOCHEMISTRY. Palaios, 2011, 26, 180-186.	0.6	7
48	Oxygen Isotopic Compositions of Asteroidal Materials Returned from Itokawa by the Hayabusa Mission. Science, 2011, 333, 1116-1119.	6.0	161
49	Three-Dimensional Structure of Hayabusa Samples: Origin and Evolution of Itokawa Regolith. Science, 2011, 333, 1125-1128.	6.0	249
50	Irradiation History of Itokawa Regolith Material Deduced from Noble Gases in the Hayabusa Samples. Science, 2011, 333, 1128-1131.	6.0	128
51	Neutron Activation Analysis of a Particle Returned from Asteroid Itokawa. Science, 2011, 333, 1119-1121.	6.0	55
52	Chemical and isotopic signature of bulk organic matter and hydrocarbon biomarkers within mid-slope accretionary sediments of the northern Cascadia margin gas hydrate system. Marine Geology, 2010, 275, 166-177.	0.9	24
53	Î13Câ€“ÎD distribution of lipid biomarkers in a bacterial mat from a hot spring in Miyagi Prefecture, NE Japan. Organic Geochemistry, 2010, 41, 398-403.	0.9	13
54	Elemental and isotope behavior of macromolecular organic matter from CM chondrites during hydrous pyrolysis. Meteoritics and Planetary Science, 2009, 44, 943-953.	0.7	31

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55	Oxygen Isotope Study of Paleoproterozoic Banded Iron Formation, Hamersley Basin, Western Australia. Resource Geology, 2008, 58, 43-51.	0.3	8
56	Carbon and hydrogen isotopic fractionation of low molecular weight organic compounds during ultraviolet degradation. Organic Geochemistry, 2008, 39, 501-509.	0.9	12
57	A multi-isotope study of deep-sea mussels at three different hydrothermal vent sites in the northwestern Pacific. Chemical Geology, 2008, 255, 25-32.	1.4	12
58	Carbon and hydrogen isotope fractionation of acetic acid during degradation by ultraviolet light. Geochemical Journal, 2007, 41, 103-110.	0.5	6
59	Î´13C and Î´D relationships among three n-alkyl compound classes (n-alkanoic acid, n-alkane and) Tj ETQq1 1 0.784314 rgBT /Overlock	0.9	169
60	Seasonal and depth variations in molecular and isotopic alkenone composition of sinking particles from the western North Pacific. Deep-Sea Research Part I: Oceanographic Research Papers, 2007, 54, 1571-1592.	0.6	24
61	Carbon isotopic composition of acetic acid generated by hydrous pyrolysis of macromolecular organic matter from the Murchison meteorite. Meteoritics and Planetary Science, 2006, 41, 1175-1181.	0.7	25
62	Carbon and hydrogen isotope variation of plant biomarkers in a plantâ€“soil system. Chemical Geology, 2006, 231, 190-202.	1.4	112
63	Carbon isotope fractionation during degradation of benzene, trichloroethene, and tetrachloroethene under ultraviolet light. Geochemical Journal, 2006, 40, 291-296.	0.5	5
64	Site-specific carbon isotope analysis of aromatic carboxylic acids by elemental analysis/pyrolysis/isotope ratio mass spectrometry. Rapid Communications in Mass Spectrometry, 2006, 20, 3649-3653.	0.7	10
65	Chemical and biological evolution of early Earth: Constraints from banded iron formations. , 2006, , .		20
66	Carbon and hydrogen isotopic compositions of sterols from riverine and marine sediments. Limnology and Oceanography, 2005, 50, 1763-1770.	1.6	30
67	Solid-state¹³C NMR characterization of insoluble organic matter from Antarctic CM2 chondrites: Evaluation of the meteoritic alteration level. Meteoritics and Planetary Science, 2005, 40, 779-787.	0.7	35
68	Î´13C and Î´D identification of sources of lipid biomarkers in sediments of Lake Haruna (Japan). Geochimica Et Cosmochimica Acta, 2005, 69, 3285-3297.	1.6	63
69	Carbon isotope signatures of bacterial 28-norhopanoic acids in Mioceneâ€“Pliocene diatomaceous and phosphatic sediments. Chemical Geology, 2005, 218, 117-133.	1.4	12
70	Response of phytoplankton productivity to climate change recorded by sedimentary photosynthetic pigments in Lake Hovsgol (Mongolia) for the last 23,000 years. Quaternary International, 2005, 136, 71-81.	0.7	68
71	Hydrogen and carbon isotopic fractionations of lipid biosynthesis among terrestrial (C3, C4 and CAM) and aquatic plants. Phytochemistry, 2004, 65, 1369-1381.	1.4	192
72	Hydrogen isotopic fractionations during desaturation and elongation associated with polyunsaturated fatty acid biosynthesis in marine macroalgae. Phytochemistry, 2004, 65, 2293-2300.	1.4	73

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73	Carbon and hydrogen isotopic fractionation during lipid biosynthesis in a higher plant (Cryptomeria) Tj ETQq1 1 0.784314 rgBT /Over	1.4	126
74	Biological and environmental changes in Lake Baikal during the late Quaternary inferred from carbon, nitrogen and sulfur isotopes. Earth and Planetary Science Letters, 2004, 222, 285-299.	1.8	47
75	A chemical sequence of macromolecular organic matter in the CM chondrites. Meteoritics and Planetary Science, 2004, 39, 401-406.	0.7	26
76	Molecular composition and compound-specific stable carbon isotope ratio of polycyclic aromatic hydrocarbons (PAHs) in the atmosphere in suburban areas. Geochemical Journal, 2004, 38, 89-100.	0.5	10
77	Compound-specific ÎDâ€“Î´13C analyses of n-alkanes extracted from terrestrial and aquatic plants. Phytochemistry, 2003, 63, 361-371.	1.4	393
78	Geochemical and organic carbon isotope studies across the continental Permoâ€“Triassic boundary of Raniganj Basin, eastern India. Palaeogeography, Palaeoclimatology, Palaeoecology, 2003, 191, 1-14.	1.0	66
79	Thermodynamic Behavior of Stable Carbon Isotopic Compositions of Individual Polycyclic Aromatic Hydrocarbons Derived from Automobiles. Polycyclic Aromatic Compounds, 2003, 23, 219-236.	1.4	27
80	Carbon Isotope Fractionation during Permanganate Oxidation of Chlorinated Ethylenes (cDCE, TCE,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	4.6	43
81	Vertical distributions and Î´13C isotopic compositions of PAHs in Chidorigafuchi Moat sediment, Japan. Organic Geochemistry, 2002, 33, 843-848.	0.9	29
82	Origin of atmospheric polycyclic aromatic hydrocarbons (PAHs) in Chinese cities solved by compound-specific stable carbon isotopic analyses. Organic Geochemistry, 2002, 33, 1737-1745.	0.9	72
83	Source identification of Malaysian atmospheric polycyclic aromatic hydrocarbons nearby forest fires using molecular and isotopic compositions. Atmospheric Environment, 2002, 36, 611-618.	1.9	119
84	Organic hydrogen-carbon isotope signatures of terrestrial higher plants during biosynthesis for distinctive photosynthetic pathways.. Geochemical Journal, 2001, 35, 451-458.	0.5	29
85	Laser microprobe technique for stable carbon isotope analyses of organic carbon in sedimentary rocks.. Geochemical Journal, 2000, 34, 195-205.	0.5	3
86	Carbon isotopic composition of sterols in geochemical samples.. Geochemical Journal, 2000, 34, 429-438.	0.5	1
87	Recent sedimentary hopanoids in the northwestern Pacific alongside the Japanese IslandsÂâ€” their concentrations and carbon isotopic compositions. Organic Geochemistry, 2000, 31, 1023-1029.	0.9	9
88	Molecular-isotopic stratigraphy of long-chain n-alkanes in Lake Baikal Holocene and glacial age sediments. Organic Geochemistry, 2000, 31, 287-294.	0.9	102
89	Molecular and isotopic abundances of long-chain n-fatty acids in open marine sediments of the western North Pacific. Chemical Geology, 2000, 165, 23-36.	1.4	58
90	Isotopic evidence from an Antarctic carbonaceous chondrite for two reaction pathways of extraterrestrial PAH formation. Earth and Planetary Science Letters, 2000, 184, 1-7.	1.8	82

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91	Separation of PAHs in Environmental Samples by Use of Solid-Phase Extraction System for Carbon Isotope Analysis.. Journal of the Mass Spectrometry Society of Japan, 2000, 48, 387-394.	0.0	18
92	Molecular distribution of monocarboxylic acids in Asuka carbonaceous chondrites from Antarctica. Origins of Life and Evolution of Biospheres, 1999, 29, 187-201.	0.8	78
93	Organic molecular and carbon isotopic records of the Japan Sea over the past 30 kyr. Paleoceanography, 1999, 14, 260-270.	3.0	48
94	Carbon isotopic compositions of individual long-chain n-fatty acids and n-alkanes in sediments from river to open ocean: Multiple origins for their occurrence.. Geochemical Journal, 1999, 33, 215-235.	0.5	34
95	Carbon isotopic compositions of Antarctic carbonaceous chondrites with relevance to the alteration and existence of organic matter.. Geochemical Journal, 1997, 31, 155-168.	0.5	11
96	.DELTA.13 records of diploptene in the Japan Sea sediments over the past 25 kyr.. Geochemical Journal, 1997, 31, 315-321.	0.5	20
97	Carbon, nitrogen, and sulfur geochemistry of Archean and Proterozoic shales from the Kaapvaal Craton, South Africa. Geochimica Et Cosmochimica Acta, 1997, 61, 3441-3459.	1.6	105
98	Non-biogenic graphite in 3.8-Ga metamorphic rocks from the Isua district, Greenland. Chemical Geology, 1996, 133, 251-260.	1.4	39
99	Carbon isotopic difference of saturated long-chain n-fatty acids between a terrestrial and a marine sediment.. Geochemical Journal, 1995, 29, 189-195.	0.5	10
100	Stable Carbon Isotope Measurement of Individual Fatty Acids Using Gas Chromatography/Isotope Ratio Monitoring Mass Spectrometry.. Journal of the Mass Spectrometry Society of Japan, 1994, 42, 315-323.	0.0	15
101	Molecular Sieve Isolation Technique for Use in Stable Carbon Isotope Analysis of Individual Long-Chain n-Alkanes in Crude Oil.. Journal of the Mass Spectrometry Society of Japan, 1994, 42, 237-246.	0.0	6
102	Carbon Isotopic Compositions in Antarctic Carbonaceous Chondrites. Chemistry Letters, 1993, 22, 371-374.	0.7	2
103	Analyses of carboxylic acids and hydrocarbons in Antarctic carbonaceous chondrites, Yamato-74662 and Yamato-793321.. Geochemical Journal, 1989, 23, 181-193.	0.5	56
104	Hydrocarbons in the Yamato-791198 Carbonaceous Chondrite from Antarctica. Chemistry Letters, 1988, 17, 831-834.	0.7	24
105	Kinetic Studies on Dehydrogenation Reaction of 5,6-Dihydro-2,4(1H,3H)-pyrimidinediones in Aqueous Solution Induced by Argon Arc Plasma or Hydrogenâ€“Oxygen Flame. Bulletin of the Chemical Society of Japan, 1987, 60, 414-416.	2.0	3
106	Carboxylic Acids in the Yamato-791198 Carbonaceous Chondrites from Antarctica. Chemistry Letters, 1986, 15, 1561-1564.	0.7	17
107	Stereochemistry of piperazine-2,5-dione formation by self-condensation of DL-amino acid esters. Journal of the Chemical Society Perkin Transactions 1, 1986, , 1557.	0.9	7
108	Formation of bioorganic compounds in aqueous solution induced by plasma. Origins of Life and Evolution of Biospheres, 1984, 14, 107-114.	0.6	4

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109	Formation of bioorganic compounds in aqueous solution induced by flames. Origins of Life and Evolution of Biospheres, 1984, 14, 123-130.	0.6	6