

Urumu Tsunogai

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

153
papers

4,945
citations

38
h-index

63
g-index

167
ext. papers

5,661
ext. citations

3.8
avg. IF

4.98
L-index

#	Paper	IF	Citations
153	High-precision $\delta^{17}\text{O}$ measurements of geothermal H ₂ O and MORB on the VSMOW-SLAP scale: evidence for active oxygen exchange between the lithosphere and hydrosphere. <i>Geochemical Journal</i> , 2021 , 55, e25-e33	0.9	1
152	Geological features for the formation of gas-geochemical fields, including helium and hydrogen, in the water and sediments at the Vietnamese part of the South-China Sea. <i>Georesursy</i> , 2021 , 23, 132-142	0.9	1
151	Behavior of magmatic components in fumarolic gases related to the 2018 phreatic eruption at Ebinokogen Ioyama volcano, Kirishima Volcanic Group, Kyushu, Japan. <i>Earth, Planets and Space</i> , 2021 , 73,	2.9	2
150	Vertical Changes in the Flux of Atmospheric Nitrate From a Forest Canopy to the Surface Soil Based on $\delta^{17}\text{O}$ Values. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2021 , 126, e2020JG005876	3.7	1
149	Development of a drone-borne volcanic plume sampler. <i>Journal of Volcanology and Geothermal Research</i> , 2021 , 412, 107197	2.8	0
148	Determination of the triple oxygen isotopic composition of tropospheric ozone in terminal positions using a multistep nitrite-coated filter-pack system. <i>Rapid Communications in Mass Spectrometry</i> , 2021 , 35, e9124	2.2	
147	Variation of volcanic gas composition at a poorly accessible volcano: Sakurajima, Japan. <i>Journal of Volcanology and Geothermal Research</i> , 2020 , 407, 107098	2.8	1
146	Dual stable isotope characterization of excess methane in oxic waters of a mesotrophic lake. <i>Limnology and Oceanography</i> , 2020 , 65, 2937-2952	4.8	2
145	Time variations in the chemical and isotopic composition of fumarolic gases at Hakone volcano, Honshu Island, Japan, over the earthquake swarm and eruption in 2015, interpreted by magma sealing model. <i>Earth, Planets and Space</i> , 2019 , 71,	2.9	13
144	Stable hydrogen and oxygen isotopic compositions of water vapor in volcanic plumes sampled in glass bottles using cavity ring-down spectroscopy. <i>Journal of Volcanology and Geothermal Research</i> , 2019 , 384, 232-240	2.8	1
143	Time Variation in the Chemical and Isotopic Composition of Fumarolic Gasses at Kusatsu-Shirane Volcano, Japan. <i>Frontiers in Earth Science</i> , 2019 , 7,	3.5	5
142	Influence of warm-core eddy on dissolved methane distributions in the southwestern Canada basin during late summer/early fall 2015. <i>Polar Science</i> , 2019 , 22, 100481	2.3	2
141	Quantifying nitrate dynamics in a mesotrophic lake using triple oxygen isotopes as tracers. <i>Limnology and Oceanography</i> , 2018 , 63, S458-S476	4.8	10
140	Flux and distribution of methane (CH ₄) in the Gunsan Basin of the southeastern Yellow Sea, off the Western Korea. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2018 , 53, 457-466	2.3	3
139	Ecological and genomic profiling of anaerobic methane-oxidizing archaea in a deep granitic environment. <i>ISME Journal</i> , 2018 , 12, 31-47	11.9	38
138	Deep-biosphere methane production stimulated by geofluids in the Nankai accretionary complex. <i>Science Advances</i> , 2018 , 4, eaao4631	14.3	46
137	Triple oxygen isotopes indicate urbanization affects sources of nitrate in wet and dry atmospheric deposition. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 6381-6392	6.8	16

136	Clay Mineral Suites in Submarine Mud Volcanoes in the Kumano Forearc Basin, Nankai Trough: Constraints on the Origin of Mud Volcano Sediments. <i>Geosciences (Switzerland)</i> , 2018 , 8, 220	2.7	2
135	Variation of geochemical environments associated with whale-fall biomass mineralization processes in the sediment during the mobile scavenger, enrichment opportunist, and sulfophilic stages. <i>Marine Biology</i> , 2018 , 165, 1	2.5	3
134	Export flux of unprocessed atmospheric nitrate from temperate forested catchments: a possible new index for nitrogen saturation. <i>Biogeosciences</i> , 2018 , 15, 7025-7042	4.6	10
133	Estimates of methane emissions from the Southern Ocean from quasi-continuous underway measurements of the partial pressure of methane in surface seawater during the 2012/13 austral summer. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2018 , 70, 1-15	3.3	3
132	Formation of gas discharging from Taketomi submarine hot spring off Ishigaki Island in the southern Ryukyu Islands, Japan. <i>Journal of Volcanology and Geothermal Research</i> , 2017 , 330, 24-35	2.8	1
131	The role of low-temperature organic matter diagenesis in carbonate precipitation within a marine deposit. <i>Applied Geochemistry</i> , 2017 , 76, 218-231	3.5	13
130	Microbial metabolism inferred from chemical and isotopic compositions of pore water around bananas discovered on the deep-sea floor in the Tenryu Submarine Canyon. <i>JAMSTEC Report of Research and Development</i> , 2017 , 25, 1-12	0	
129	Methanogens in H ₂ -rich hydrothermal fluids resulting from phase separation in a sediment-starved, basalt-hosted hydrothermal system. <i>Chemical Geology</i> , 2016 , 447, 208-218	4.2	3
128	Helium and methane sources and fluxes of shallow submarine hydrothermal plumes near the Tokara Islands, Southern Japan. <i>Scientific Reports</i> , 2016 , 6, 34126	4.9	16
127	Remote determinations on fumarole outlet temperatures in an eruptive volcano. <i>Geophysical Research Letters</i> , 2016 , 43, 11,620	4.9	4
126	A 150-year variation of the Kuroshio transport inferred from coral nitrogen isotope signature. <i>Paleoceanography</i> , 2016 , 31, 838-846		14
125	Geochemical characteristics of hydrothermal fluids at Hatoma Knoll in the southern Okinawa Trough. <i>Geochemical Journal</i> , 2016 , 50, 493-525	0.9	14
124	Accurate and precise quantification of atmospheric nitrate in streams draining land of various uses by using triple oxygen isotopes as tracers. <i>Biogeosciences</i> , 2016 , 13, 3441-3459	4.6	21
123	Deep microbial life in high-quality granitic groundwater from geochemically and geographically distinct underground boreholes. <i>Environmental Microbiology Reports</i> , 2016 , 8, 285-94	3.7	20
122	Mass occurrence of the enigmatic gastropod <i>Elmira</i> in the Late Cretaceous Sada Limestone seep deposit in southwestern Shikoku, Japan. <i>Palaontologische Zeitschrift</i> , 2016 , 90, 701-722	1.2	6
121	Geochemical imprints of genotypic variants of <i>Globigerina bulloides</i> in the Arabian Sea. <i>Paleoceanography</i> , 2016 , 31, 1440-1452		20
120	Spatial and temporal variations of gas geochemistry at Mt. Ontake, Japan. <i>Journal of Volcanology and Geothermal Research</i> , 2016 , 325, 179-188	2.8	8
119	The coral δ ¹⁵ N record of terrestrial nitrate loading varies with river catchment land use. <i>Coral Reefs</i> , 2015 , 34, 353-362	4.2	14

118	Hydrothermal plumes in the Gulf of Aden, as characterized by light transmission, Mn, Fe, CH ₄ and $\delta^{13}C$ anomalies. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2015 , 121, 62-70	2.3	5
117	Chemical composition of hydrothermal fluids in the central and southern Mariana Trough backarc basin. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2015 , 121, 126-136	2.3	16
116	The Tarama Knoll: Geochemical and Biological Profiles of Hydrothermal Activity 2015 , 497-504		2
115	Chemical and Isotopic Compositions of Hydrothermal Fluids at Snail, Archaean, Pika, and Urashima Sites in the Southern Mariana Trough 2015 , 587-602		3
114	Tracing geologically constrained fluid flow pathways using a combination of heat flow measurements, pore water chemistry, and acoustic imaging near the deformation front of the Nankai Trough off the Muroto Peninsula, Japan. <i>Tectonophysics</i> , 2014 , 618, 121-137	3.1	3
113	Electrochemical stimulation of microbial reductive dechlorination of pentachlorophenol using solid-state redox mediator (humic) immobilization. <i>Bioresource Technology</i> , 2014 , 164, 232-40	11	38
112	Biogeochemical signals from deep microbial life in terrestrial crust. <i>PLoS ONE</i> , 2014 , 9, e113063	3.7	14
111	Quantifying the effects of clear-cutting and strip-cutting on nitrate dynamics in a forested watershed using triple oxygen isotopes as tracers. <i>Biogeosciences</i> , 2014 , 11, 5411-5424	4.6	13
110	Origin and transport of pore fluids in the Nankai accretionary prism inferred from chemical and isotopic compositions of pore water at cold seep sites off Kumano. <i>Earth, Planets and Space</i> , 2014 , 66,	2.9	12
109	Leakage of magmatic hydrothermal volatiles from a crater bottom formed by a submarine eruption in 1989 at Teishi Knoll, Japan. <i>Journal of Volcanology and Geothermal Research</i> , 2014 , 270, 90-98	2.8	4
108	Novel microbial populations in deep granitic groundwater from Grimsel Test Site, Switzerland. <i>Microbial Ecology</i> , 2013 , 65, 626-37	4.4	18
107	Shallow submarine hydrothermal activity with significant contribution of magmatic water producing talc chimneys in the Wakamiko Crater of Kagoshima Bay, southern Kyushu, Japan. <i>Journal of Volcanology and Geothermal Research</i> , 2013 , 258, 74-84	2.8	31
106	Megacities and large urban agglomerations in the coastal zone: interactions between atmosphere, land, and marine ecosystems. <i>Ambio</i> , 2013 , 42, 13-28	6.5	85
105	Nitrogen isotopes in intra-crystal coralline aragonites. <i>Chemical Geology</i> , 2013 , 351, 276-280	4.2	15
104	Strong relationship between dimethyl sulfide and net community production in the western subarctic Pacific. <i>Geophysical Research Letters</i> , 2013 , 40, 3986-3990	4.9	12
103	Occurrence and potential activity of denitrifiers and methanogens in groundwater at 140 m depth in Pliocene diatomaceous mudstone of northern Japan. <i>FEMS Microbiology Ecology</i> , 2013 , 86, 532-43	4.3	11
102	Contribution of methane to total gas pressure in deep waters at lakes Nyos and Monoun (Cameroon, West Africa). <i>Geochemical Journal</i> , 2013 , 47, 349-362	0.9	7
101	Tracing atmospheric nitrate in groundwater using triple oxygen isotopes: evaluation based on bottled drinking water. <i>Biogeosciences</i> , 2013 , 10, 3547-3558	4.6	11

100	Otolith $\delta^{18}O$ of Pacific bluefin tuna <i>Thunnus orientalis</i> as an indicator of ambient water temperature. <i>Marine Ecology - Progress Series</i> , 2013 , 481, 199-209	2.6	28
99	First measurements of methane and its carbon isotope ratio in the Japan Sea (East Sea). <i>Marine Chemistry</i> , 2012 , 128-129, 92-99	3.7	5
98	Methane production and accumulation in the Nankai accretionary prism: Results from IODP Expeditions 315 and 316. <i>Geochemical Journal</i> , 2012 , 46, 89-106	0.9	22
97	Biogeochemical processes involving acetate in sub-seafloor sediments from the Bering Sea shelf break. <i>Organic Geochemistry</i> , 2012 , 48, 47-55	3.1	16
96	Coseismic massive methane release from a submarine mud volcano. <i>Earth and Planetary Science Letters</i> , 2012 , 341-344, 79-85	5.3	31
95	Iron-based microbial ecosystem on and below the seafloor: a case study of hydrothermal fields of the southern mariana trough. <i>Frontiers in Microbiology</i> , 2012 , 3, 89	5.7	22
94	Variation in stable carbon and oxygen isotopes of individual benthic foraminifera: tracers for quantifying the magnitude of isotopic disequilibrium. <i>Biogeosciences</i> , 2012 , 9, 4353-4367	4.6	22
93	Disturbance of deep-sea environments induced by the M9.0 Tohoku Earthquake. <i>Scientific Reports</i> , 2012 , 2, 270	4.9	41
92	Stable carbon isotope ratios of ethane over the North Pacific: Atmospheric measurements and global chemical transport modeling. <i>Journal of Geophysical Research</i> , 2011 , 116,		6
91	Nitrogen isotopes of organic nitrogen in reef coral skeletons as a proxy of tropical nutrient dynamics. <i>Geophysical Research Letters</i> , 2011 , 38, n/a-n/a	4.9	28
90	A geochemical study on mud volcanoes in the Junggar Basin, China. <i>Applied Geochemistry</i> , 2011 , 26, 1065-1076	5.3	35
89	Hydrogen isotopes in volcanic plumes: Tracers for remote temperature sensing of fumaroles. <i>Geochimica Et Cosmochimica Acta</i> , 2011 , 75, 4531-4546	5.5	13
88	Quantifying nitrate dynamics in an oligotrophic lake using $\delta^{15}N$ and $\delta^{18}O$. <i>Biogeosciences</i> , 2011 , 8, 687-702	4.6	31
87	Application of PTR-MS to an incubation experiment of the marine diatom <i>Thalassiosira pseudonana</i> . <i>Geochemical Journal</i> , 2011 , 45, 355-363	0.9	8
86	Geophysical and geochemical evidence of large scale fluid flow within shallow sediments in the eastern Gulf of Mexico, offshore Louisiana. <i>Geofluids</i> , 2011 , 11, 34-47	1.5	18
85	Gas Chemistry of Pore Fluids from Oomine Ridge on the Nankai Accretionary Prism. <i>Modern Approaches in Solid Earth Sciences</i> , 2011 , 247-262	0.5	3
84	Stable hydrogen isotopic analysis of nanomolar molecular hydrogen by automatic multi-step gas chromatographic separation. <i>Rapid Communications in Mass Spectrometry</i> , 2011 , 25, 3351-9	2.2	9
83	Determination of total N fixation rates in the ocean taking into account both the particulate and filtrate fractions. <i>Biogeosciences</i> , 2010 , 7, 2369-2377	4.6	24

82	Archaeal diversity and distribution along thermal and geochemical gradients in hydrothermal sediments at the Yonaguni Knoll IV hydrothermal field in the Southern Okinawa trough. <i>Applied and Environmental Microbiology</i> , 2010 , 76, 1198-211	4.8	74
81	Diversity and function of epibiotic microbial communities on the galatheid crab, <i>Shinkaia crosnieri</i> . <i>Microbes and Environments</i> , 2010 , 25, 288-94	2.6	46
80	Sources of pore water in a Tanegashima mud volcano inferred from chemical and stable isotopic studies. <i>Geochemical Journal</i> , 2010 , 44, 561-569	0.9	6
79	Origin and fate of deep-sea seeping methane bubbles at Kuroshima Knoll, Ryukyu forearc region, Japan. <i>Geochemical Journal</i> , 2010 , 44, 461-476	0.9	15
78	Microbial carbon isotope fractionation to produce extraordinarily heavy methane in aging hydrothermal plumes over the southwestern Okinawa Trough. <i>Geochemical Journal</i> , 2010 , 44, 477-487	0.9	15
77	Gas geochemical characteristics of hydrothermal plumes at the HAKUREI and JADE vent sites, the Izena Cauldron, Okinawa Trough. <i>Geochemical Journal</i> , 2010 , 44, 507-518	0.9	28
76	Tracing the fate of atmospheric nitrate deposited onto a forest ecosystem in Eastern Asia using $\delta^{15}\text{N}$ and $\delta^{18}\text{O}$. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 1809-1820	6.8	45
75	Geomicrobiological properties of ultra-deep granitic groundwater from the Mizunami Underground Research Laboratory (MIU), central Japan. <i>Microbial Ecology</i> , 2010 , 60, 214-25	4.4	28
74	High-resolution measurement of multiple volatile organic compounds dissolved in seawater using equilibrator inlet-proton transfer reaction-mass spectrometry (EI-PTR-MS). <i>Marine Chemistry</i> , 2010 , 122, 59-73	3.7	59
73	Simultaneous determination of $\delta^{15}\text{N}$ and $\delta^{18}\text{O}$ of N_2O and $\delta^{13}\text{C}$ of CH_4 in nanomolar quantities from a single water sample. <i>Rapid Communications in Mass Spectrometry</i> , 2010 , 24, 1085-92	2.2	19
72	Molecular characterization of potential nitrogen fixation by anaerobic methane-oxidizing archaea in the methane seep sediments at the number 8 Kumano Knoll in the Kumano Basin, offshore of Japan. <i>Applied and Environmental Microbiology</i> , 2009 , 75, 7153-62	4.8	39
71	The living triserial planktic foraminifer <i>Gallitellia vivans</i> (Cushman): Distribution, stable isotopes, and paleoecological implications. <i>Marine Micropaleontology</i> , 2009 , 71, 71-79	1.7	19
70	Enrichment of adsorbed methane in authigenic carbonate concretions of the Japan Trench. <i>Geo-Marine Letters</i> , 2009 , 29, 301-308	1.9	11
69	Enrichment of alkanes within a phytoplankton bloom during an in situ iron enrichment experiment in the western subarctic Pacific. <i>Marine Chemistry</i> , 2009 , 115, 92-101	3.7	10
68	Enrichment of nitrous oxide in the water columns in the area of the Bering and Chukchi Seas. <i>Marine Chemistry</i> , 2009 , 116, 47-53	3.7	20
67	Equilibrator inlet-proton transfer reaction-mass spectrometry (EI-PTR-MS) for sensitive, high-resolution measurement of dimethyl sulfide dissolved in seawater. <i>Analytical Chemistry</i> , 2009 , 81, 9021-6	7.8	47
66	Biogeochemical profiles in deep sedimentary rocks in an inland fore-arc basin, Central Japan. <i>Chemical Geology</i> , 2009 , 259, 107-119	4.2	5
65	Theoretical and experimental evaluation of the isotope effect of NDIR analyzer on atmospheric CO_2 measurement. <i>Journal of Geophysical Research</i> , 2009 , 114,		30

64	Photochemical histories of nonmethane hydrocarbons inferred from their stable carbon isotope ratio measurements over east Asia. <i>Journal of Geophysical Research</i> , 2009 , 114,		11
63	Unique distribution of deep groundwater bacteria constrained by geological setting. <i>Environmental Microbiology Reports</i> , 2009 , 1, 569-74	3.7	19
62	Diverse Range of Mineralization Induced by Phase Separation of Hydrothermal Fluid: Case Study of the Yonaguni Knoll IV Hydrothermal Field in the Okinawa Trough Back-Arc Basin. <i>Resource Geology</i> , 2008 , 58, 267-288	1	69
61	Geological background of the Kairei and Edmond hydrothermal fields along the Central Indian Ridge: Implications of their vent fluids' distinct chemistry. <i>Geofluids</i> , 2008 , 8, 239-251	1.5	90
60	Radiocarbon-based carbon source quantification of anomalous isotopic foraminifera in last glacial sediments in the western North Pacific. <i>Geochemistry, Geophysics, Geosystems</i> , 2008 , 9, n/a-n/a	3.6	36
59	Methane enrichment in low-temperature hydrothermal fluids from the Suiyo Seamount in the Izu-Bonin Arc of the western Pacific Ocean. <i>Journal of Geophysical Research</i> , 2008 , 113,		11
58	Carbon isotopic characterization for the origin of excess methane in subsurface seawater. <i>Journal of Geophysical Research</i> , 2008 , 113,		33
57	A multi-isotope study of deep-sea mussels at three different hydrothermal vent sites in the northwestern Pacific. <i>Chemical Geology</i> , 2008 , 255, 25-32	4.2	10
56	Cell proliferation at 122 degrees C and isotopically heavy CH ₄ production by a hyperthermophilic methanogen under high-pressure cultivation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 10949-54	11.5	528
55	Technical Note: Determination of formaldehyde mixing ratios in air with PTR-MS: laboratory experiments and field measurements. <i>Atmospheric Chemistry and Physics</i> , 2008 , 8, 273-284	6.8	104
54	Long-term observation of mass-independent oxygen isotope anomaly in stratospheric CO ₂ . <i>Atmospheric Chemistry and Physics</i> , 2008 , 8, 6189-6197	6.8	17
53	Sensitive determinations of stable nitrogen isotopic composition of organic nitrogen through chemical conversion into N ₂ O. <i>Rapid Communications in Mass Spectrometry</i> , 2008 , 22, 345-54	2.2	36
52	Determination of the ¹⁵ N/ ¹⁴ N, ¹⁷ O/ ¹⁶ O, and ¹⁸ O/ ¹⁶ O ratios of nitrous oxide by using continuous-flow isotope-ratio mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2008 , 22, 1587-96	2.2	30
51	Grain-scale heterogeneities in the stable carbon and oxygen isotopic compositions of the international standard calcite materials (NBS 19, NBS 18, IAEA-CO-1, and IAEA-CO-8). <i>Rapid Communications in Mass Spectrometry</i> , 2008 , 22, 1925-32	2.2	48
50	Methane, manganese, and helium-3 in newly discovered hydrothermal plumes over the Central Indian Ridge, 18°N. <i>Geochemistry, Geophysics, Geosystems</i> , 2008 , 9, n/a-n/a	3.6	38
49	Geochemical characterization of the organic matter, pore water constituents and shallow methane gas in the eastern part of the Ulleung Basin, East Sea (Japan Sea). <i>Island Arc</i> , 2007 , 16, 93-104	2	24
48	. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2007 , 59, 223-233	3.3	62
47	Chemical and isotopic characteristics of interstitial fluids within the Taiwan Chelungpu fault. <i>Geochemical Journal</i> , 2007 , 41, 97-102	0.9	5

46	Rare Earth Elements in the hydrothermal system at Okinawa Trough back-arc basin. <i>Geochemical Journal</i> , 2007 , 41, 1-15	0.9	34
45	Geochemical studies of pore fluid in surface sediment on the Daini Atsumi Knoll. <i>Journal of Geochemical Exploration</i> , 2007 , 95, 29-39	3.8	4
44	World Largest Outcrop of Pure Hydrate on the Seafloor. <i>JAMSTEC Report of Research and Development</i> , 2007 , 5, 61-63	0	1
43	Microbial community in a sediment-hosted CO ₂ lake of the southern Okinawa Trough hydrothermal system. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 14164-14169	11.5	127
42	Liquid CO ₂ venting on the seafloor: Yonaguni Knoll IV hydrothermal system, Okinawa Trough. <i>Geophysical Research Letters</i> , 2006 , 33,	4.9	71
41	Unique Geochemistry of Submarine Hydrothermal Fluids from Arc-Back-Arc Settings of the Western Pacific. <i>Geophysical Monograph Series</i> , 2006 , 147-161	1.1	18
40	Polar and neutral isopranyl glycerol ether lipids as biomarkers of archaea in near-surface sediments from the Nankai Trough. <i>Organic Geochemistry</i> , 2006 , 37, 1643-1654	3.1	57
39	Origins of hydrocarbons in the Sagara oil field, central Japan. <i>Island Arc</i> , 2006 , 15, 285-291	2	3
38	Geomicrobiological exploration and characterization of a novel deep-sea hydrothermal system at the TOTO caldera in the Mariana Volcanic Arc. <i>Environmental Microbiology</i> , 2006 , 8, 37-49	5.2	56
37	Development of a multibottle gas-tight fluid sampler WHATS II for Japanese submersibles/ROVs. <i>Geofluids</i> , 2006 , 060404065855002-???	1.5	12
36	Molecular phylogenetic and chemical analyses of the microbial mats in deep-sea cold seep sediments at the northeastern Japan Sea. <i>Extremophiles</i> , 2006 , 10, 311-9	3	30
35	An analytical system for determining delta17O in CO ₂ using continuous flow-isotope ratio MS. <i>Analytical Chemistry</i> , 2005 , 77, 4509-14	7.8	29
34	Stable isotopic compositions of methane and carbon monoxide in the Suiyo hydrothermal plume, Izu Bonin arc: Tracers for microbial consumption/production. <i>Earth and Planetary Science Letters</i> , 2005 , 237, 326-340	5.3	34
33	Automobile exhaust as a source of ¹³ C- and D-enriched atmospheric methane in urban areas. <i>Organic Geochemistry</i> , 2005 , 36, 727-738	3.1	29
32	A selective unsaturated hydrocarbon subtraction technique for stable carbon isotopic analysis of atmospheric methyl chloride, methyl bromide, and C ₂ -C ₅ saturated hydrocarbons using continuous-flow isotope ratio mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2005 , 19, 477-83	2.2	22
31	Characterization of C ₁ -metabolizing prokaryotic communities in methane seep habitats at the Kuroshima Knoll, southern Ryukyu Arc, by analyzing pmoA, mmoX, mxaF, mcrA, and 16S rRNA genes. <i>Applied and Environmental Microbiology</i> , 2004 , 70, 7445-55	4.8	106
30	Geochemical and microbiological evidence for a hydrogen-based, hyperthermophilic subsurface lithoautotrophic microbial ecosystem (HyperSLiME) beneath an active deep-sea hydrothermal field. <i>Extremophiles</i> , 2004 , 8, 269-82	3	249
29	Geophysical and geochemical observations on actively seeping hydrocarbon gases on the south-eastern Yellow Sea continental shelf. <i>Geo-Marine Letters</i> , 2004 , 24, 53-62	1.9	14

28	Stable carbon and oxygen isotopic determination of sub-microgram quantities of CaCO ₃ to analyze individual foraminiferal shells. <i>Rapid Communications in Mass Spectrometry</i> , 2004 , 18, 2883-8	2.2	51
27	Stable isotopic compositions and fractionations of carbon monoxide at coastal and open ocean stations in the Pacific. <i>Journal of Geophysical Research</i> , 2004 , 109,		12
26	Detection of low-chloride fluids beneath a cold seep field on the Nankai accretionary wedge off Kumano, south of Japan. <i>Earth and Planetary Science Letters</i> , 2004 , 228, 37-47	5.3	43
25	Discovery of a new hydrothermal venting site in the southernmost Mariana Arc: Al-rich hydrothermal plumes and white smoker activity associated with biogenic methane. <i>Geochemical Journal</i> , 2004 , 38, 527-534	0.9	28
24	An updated estimation of the stable carbon and oxygen isotopic compositions of automobile CO emissions. <i>Atmospheric Environment</i> , 2003 , 37, 4901-4910	5.3	26
23	A simple method for oxygen-18 determination of milligram quantities of water using NaHCO ₃ reagent. <i>Rapid Communications in Mass Spectrometry</i> , 2003 , 17, 1472-8	2.2	25
22	Stable Isotope Evidence for a Putative Endosymbiont-Based Lithotrophic Bathymodiolus sp. Mussel Community Atop a Serpentine Seamount. <i>Geomicrobiology Journal</i> , 2003 , 20, 185-197	2.5	12
21	Surface expression of fluid venting at the toe of the Nankai wedge and implications for flow paths. <i>Marine Geology</i> , 2002 , 187, 119-143	3.3	52
20	Carbon isotopic evidence of methane oxidation through sulfate reduction in sediment beneath cold seep vents on the seafloor at Nankai Trough. <i>Marine Geology</i> , 2002 , 187, 145-160	3.3	59
19	Stable carbon and oxygen isotopic analysis of atmospheric carbon monoxide using continuous-flow isotope ratio MS by isotope ratio monitoring of CO. <i>Analytical Chemistry</i> , 2002 , 74, 5695-700	7.8	30
18	Stable carbon isotopic compositions of light hydrocarbons over the western North Pacific and implication for their photochemical ages. <i>Journal of Geophysical Research</i> , 2002 , 107, ACH 2-1		33
17	Production mechanism and global budget of N ₂ O inferred from its isotopomers in the western North Pacific. <i>Geophysical Research Letters</i> , 2002 , 29, 7-1	4.9	87
16	Chemical characteristics of newly discovered black smoker fluids and associated hydrothermal plumes at the Rodriguez Triple Junction, Central Indian Ridge. <i>Earth and Planetary Science Letters</i> , 2001 , 193, 371-379	5.3	120
15	Stable carbon and oxygen isotopic analysis of carbon monoxide in natural waters. <i>Rapid Communications in Mass Spectrometry</i> , 2000 , 14, 1507-12	2.2	21
14	Carbon isotopic distribution of methane in deep-sea hydrothermal plume, Myojin Knoll Caldera, Izu-Bonin arc: implications for microbial methane oxidation in the oceans and applications to heat flux estimation. <i>Geochimica Et Cosmochimica Acta</i> , 2000 , 64, 2439-2452	5.5	103
13	Isotopomer analysis of methane and nitrous oxide for the study of their geochemical cycles 2000 , 185-188		
12	Carbon isotopic compositions of C ₂ -C ₅ hydrocarbons and methyl chloride in urban, coastal, and maritime atmospheres over the western North Pacific. <i>Journal of Geophysical Research</i> , 1999 , 104, 16033-16039 ⁷⁰		
11	Carbon Isotope Measurement of Extremely Low Amounts of CH ₄ : Application to Volcanic Gases from Satsuma-Iwojima, Japan.. <i>Analytical Sciences</i> , 1999 , 15, 513-516	1.7	5

10	Origin of ¹³ C-enriched methane in the crater lake Towada, Japan.. <i>Geochemical Journal</i> , 1999 , 33, 277-283	839	11
9	Methane-rich plumes in the Suruga Trough (Japan) and their carbon isotopic characterization. <i>Earth and Planetary Science Letters</i> , 1998 , 160, 97-105	53	42
8	Neutron activation analysis of deep sea sediments from the regions near Japan. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 1997 , 216, 265-277	1.5	5
7	Fresh water seepage and pore water recycling on the seafloor: Sagami Trough subduction zone, Japan. <i>Earth and Planetary Science Letters</i> , 1996 , 138, 157-168	53	42
6	Anomalous Changes in Groundwater Chemistry. Possible Precursors of the 1995 Hyogo-ken Nanbu Earthquake, Japan.. <i>Journal of Physics of the Earth</i> , 1996 , 44, 381-390		32
5	Discrete Scaling in Earthquake Precursory Phenomena: Evidence in the Kobe Earthquake, Japan. <i>Journal De Physique, I</i> , 1996 , 6, 1391-1402		51
4	Precursory chemical changes in ground water: kobe earthquake, Japan. <i>Science</i> , 1995 , 269, 61-3	333	220
3	Peculiar features of Suiyo Seamount hydrothermal fluids, Izu-Bonin Arc: Differences from subaerial volcanism. <i>Earth and Planetary Science Letters</i> , 1994 , 126, 289-301	53	84
2	High-Resolution Measurement of Volatile Organic Compounds Dissolved in Seawater Using Equilibrator Inlet-Proton Transfer Reaction-Mass Spectrometry (EI-PTR-MS)	89-115	3
1	Nitrogen saturation of forested catchments in central Japan - Progress or recovery?. <i>Soil Science and Plant Nutrition</i> , 1-10	1.6	2