W-L Hong

List of Publications by Year
in descending order

61 papers	2,112 citations	257450 24 h-index	254184 43 g-index
74 all docs	74 docs citations	74 times ranked	2300 citing authors

#	Article	IF	Citations
1	Exploring deep microbial life in coal-bearing sediment down to ~2.5 km below the ocean floor. Science, 2015, 349, 420-424.	12.6	376
2	Gas hydrate dissociation off Svalbard induced by isostatic rebound rather than global warming. Nature Communications, 2018, 9, 83.	12.8	97
3	Soilâ€“gas monitoring: A tool for fault delineation studies along Hsinhua Fault (Tainan), Southern Taiwan. Applied Geochemistry, 2010, 25, 602-607.	3.0	83
4	Production of fluorescent dissolved organic matter in Arctic Ocean sediments. Scientific Reports, 2016, 6, 39213.	3.3	80
5	An integrated view of the methane system in the pockmarks at Vestnesa Ridge, 79Â°N. Marine Geology, 2017, 390, 282-300.	2.1	74
6	Silicate weathering in anoxic marine sediment as a requirement for authigenic carbonate burial. Earth-Science Reviews, 2020, 200, 102960.	9.1	65
7	Seepage from an arctic shallow marine gas hydrate reservoir is insensitive to momentary ocean warming. Nature Communications, 2017, 8, 15745.	12.8	59
8	Geochemical variation of soilâ€“gas composition for fault trace and earthquake precursory studies along the Hsincheng fault in NW Taiwan. Applied Radiation and Isotopes, 2009, 67, 1855-1863.	1.5	56
9	Carbon cycling within the sulfate-methane-transition-zone in marine sediments from the Ulleung Basin. Biogeochemistry, 2013, 115, 129-148.	3.5	55
10	Pore fluid chemistry from the Second Gas Hydrate Drilling Expedition in the Ulleung Basin (UBGH2): Source, mechanisms and consequences of fluid freshening in the central part of the Ulleung Basin, East Sea. Marine and Petroleum Geology, 2013, 47, 99-112.	3.3	53
11	Extremely High Methane Concentration in Bottom Water and Cored Sediments from Offshore Southwestern Taiwan. Terrestrial, Atmospheric and Oceanic Sciences, 2006, 17, 903.	0.6	51
12	A test of different factors influencing the isotopic signal of planktonic foraminifera in surface sediments from the northern South China Sea. Marine Micropaleontology, 2005, 55, 49-62.	1.2	50
13	Bottomâ€simulating reflector dynamics at Arctic thermogenic gas provinces: An example from Vestnesa Ridge, offshore west Svalbard. Journal of Geophysical Research: Solid Earth, 2017, 122, 4089-4105.	3.4	49
14	Geophysical and geochemical controls on the megafaunal community of a high Arctic cold seep. Biogeosciences, 2018, 15, 4533-4559.	3.3	49
15	Estimation of methane flux offshore SW Taiwan and the influence of tectonics on gas hydrate accumulation. Geofluids, 2010, 10, 497-510.	0.7	48
16	Towards quantifying the reaction network around the sulfateâ€“methane-transition-zone in the Ulleung Basin, East Sea, with a kinetic modeling approach. Geochimica Et Cosmochimica Acta, 2014, 140, 127-141.	3.9	44
17	Gas origin and migration in the Ulleung Basin, East Sea: Results from the Second Ulleung Basin Gas Hydrate Drilling Expedition (UBGH2). Marine and Petroleum Geology, 2013, 47, 113-124.	3.3	42
18	Removal of methane through hydrological, microbial, and geochemical processes in the shallow sediments of pockmarks along eastern Vestnesa Ridge (Svalbard). Limnology and Oceanography, 2016, 61, S324.	3.1	42

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19	Anomalous porosity preservation and preferential accumulation of gas hydrate in the Andaman accretionary wedge, NGHP-01 site 17A. Marine and Petroleum Geology, 2014, 58, 99-116.	3.3	38
20	Continuous temporal soil-gas composition variations for earthquake precursory studies along Hsincheng and Hsinhua faults in Taiwan. Radiation Measurements, 2009, 44, 934-939.	1.4	36
21	Marine silicate weathering in the anoxic sediment of the Ulleung Basin: Evidence and consequences. Geochemistry, Geophysics, Geosystems, 2016, 17, 3437-3453.	2.5	35
22	Geochemical constraints on the temperature and timing of carbonate formation and lithification in the Nankai Trough, NanTroSEIZE transect. Geochimica Et Cosmochimica Acta, 2017, 198, 92-114.	3.9	31
23	Variations in Gas and Water Pulses at an Arctic Seep: Fluid Sources and Methane Transport. Geophysical Research Letters, 2018, 45, 4153-4162.	4.0	30
24	Soil radon flux and concentrations in hydrothermal area of the Tatun Volcano Group, Northern Taiwan. Geochemical Journal, 2011, 45, 483-490.	1.0	29
25	Atypical biological features of a new cold seep site on the Lofoten-VesterÃ¥len continental margin (northern Norway). Scientific Reports, 2019, 9, 1762.	3.3	29
26	Inferences on gas transport based on molecular and isotopic signatures of gases at acoustic chimneys and background sites in the Ulleung Basin. Organic Geochemistry, 2012, 43, 26-38.	1.8	28
27	Crustal fluid and ash alteration impacts on the biosphere of Shikoku Basin sediments, Nankai Trough, Japan. Geobiology, 2015, 13, 562-580.	2.4	28
28	Production, consumption, and migration of methane in accretionary prism of southwestern Taiwan. Geochemistry, Geophysics, Geosystems, 2017, 18, 2970-2989.	2.5	28
29	Discharge of Meteoric Water in the Eastern Norwegian Sea since the Last Glacial Period. Geophysical Research Letters, 2019, 46, 8194-8204.	4.0	26
30	A kinetic-model approach to quantify the effect of mass transport deposits on pore water profiles in the Krishnaâ€“Godavari Basin, Bay of Bengal. Marine and Petroleum Geology, 2014, 58, 223-232.	3.3	25
31	Sulfur diagenesis under rapid accumulation of organic-rich sediments in a marine mangrove from Guadeloupe (French West Indies). Chemical Geology, 2017, 454, 67-79.	3.3	24
32	Nitrogen as the carrier gas for helium emission along an active fault in NW Taiwan. Applied Geochemistry, 2010, 25, 593-601.	3.0	22
33	Methane flux from miniseepage in mud volcanoes of SW Taiwan: Comparison with the data from Italy, Romania, and Azerbaijan. Journal of Asian Earth Sciences, 2013, 65, 3-12.	2.3	21
34	Fracture-controlled fluid transport supports microbial methane-oxidizing communities at Vestnesa Ridge. Biogeosciences, 2019, 16, 2221-2232.	3.3	21
35	Origin and Transformation of Light Hydrocarbons Ascending at an Active Pockmark on Vestnesa Ridge, Arctic Ocean. Journal of Geophysical Research: Solid Earth, 2020, 125, e2018JB016679.	3.4	20
36	Foraminiferal Î´18O reveals gas hydrate dissociation in Arctic and North Atlantic ocean sediments. Geo-Marine Letters, 2020, 40, 507-523.	1.1	18

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37	Characterization of benthic biogeochemistry and ecology at three methane seep sites on the Northern U.S. Atlantic margin. Deep-Sea Research Part II: Topical Studies in Oceanography, 2018, 150, 41-56.	1.4	17
38	Reduced Numerical Model for Methane Hydrate Formation under Conditions of Variable Salinity. Time-Stepping Variants and Sensitivity. Computation, 2016, 4, 1.	2.0	16
39	Authigenic carbonate formation influenced by freshwater inputs and methanogenesis in coal-bearing strata offshore Shimokita, Japan (IODP site C0020). Marine and Petroleum Geology, 2018, 96, 288-303.	3.3	16
40	Impact of iron release by volcanic ash alteration on carbon cycling in sediments of the northern Hikurangi margin. Earth and Planetary Science Letters, 2020, 541, 116288.	4.4	15
41	IODP Expedition 337: Deep Coalbed Biosphere off Shimokita â€“ Microbial processes and hydrocarbon system associated with deeply buried coalbed in the ocean. Scientific Drilling, 0, 21, 17-28.	0.6	15
42	Sources and turnover of organic carbon and methane in fjord and shelf sediments off northern Norway. Geochemistry, Geophysics, Geosystems, 2016, 17, 4011-4031.	2.5	14
43	Methane Hydrate Formation in Ulleung Basin Under Conditions of Variable Salinity: Reduced Model and Experiments. Transport in Porous Media, 2016, 114, 1-27.	2.6	13
44	Discharge of deeply rooted fluids from submarine mud volcanism in the Taiwan accretionary prism. Scientific Reports, 2020, 10, 381.	3.3	13
45	Depressurization experiment of pressure cores from the central Ulleung Basin, East Sea: Insights into gas chemistry. Organic Geochemistry, 2013, 62, 86-95.	1.8	11
46	Shallow Gas Hydrate Accumulations at a Nigerian Deepwater Pockmarkâ€"Quantities and Dynamics. Journal of Geophysical Research: Solid Earth, 2020, 125, e2019JB018283.	3.4	10
47	Towards a global quantification of volcanogenic aluminosilicate alteration rates through the mass balance of strontium in marine sediments. Chemical Geology, 2020, 550, 119743.	3.3	10
48	Iron cycling in Arctic methane seeps. Geo-Marine Letters, 2020, 40, 391-401.	1.1	10
49	Methane transport and sources in an Arctic deep-water cold seep offshore NW Svalbard (Vestnesa) Tj ETQq1 1 0.784314 rgBT /Overlo	1.4	9
50	Interactions between deep formation fluid and gas hydrate dynamics inferred from pore fluid geochemistry at active pockmarks of the Vestnesa Ridge, west Svalbard margin. Marine and Petroleum Geology, 2021, 127, 104957.	3.3	9
51	Distinct methane-dependent biogeochemical states in Arctic seafloor gas hydrate mounds. Nature Communications, 2021, 12, 6296.	12.8	9
52	Small calcium isotope fractionation at slow precipitation rates in methane seep authigenic carbonates. Geochimica Et Cosmochimica Acta, 2021, 298, 227-239.	3.9	8
53	Image based quantitative comparisons indicate heightened megabenthos diversity and abundance at a site of weak hydrocarbon seepage in the southwestern Barents Sea. PeerJ, 2019, 7, e7398.	2.0	8
54	Boron concentrations and isotopic compositions in methane-derived authigenic carbonates: Constraints and limitations in reconstructing formation conditions. Earth and Planetary Science Letters, 2022, 579, 117337.	4.4	7

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55	Northeast Atlantic breakup volcanism and consequences for Paleogene climate change â€“ MagellanPlus Workshop report. Scientific Drilling, 0, 26, 69-85.	0.6	6
56	Electrical Resistivity Variations Before and After the Pingtung Earthquake in the Wushanting Mud Volcano Area in Southwestern Taiwan. Journal of Environmental and Engineering Geophysics, 2010, 15, 219-231.	0.5	5
57	Microbial communities from Arctic marine sediments respond slowly to methane addition during ex situ enrichments. Environmental Microbiology, 2020, 22, 1829-1846.	3.8	5
58	A Pulse of Meteoric Subsurface Fluid Discharging Into the Chukchi Sea During the Early Holocene Thermal Maximum (EHTM). Geochemistry, Geophysics, Geosystems, 2021, 22, e2021GC009750.	2.5	4
59	Data report: 87Sr/86Sr in pore fluids off Shimokita Japan. Proceedings of the Integrated Ocean Drilling Program Integrated Ocean Drilling Program, 0, , .	1.0	2
60	Assessing the impact of freshwater discharge on the fluid chemistry in the Svalbard fjords. Science of the Total Environment, 2022, 835, 155516.	8.0	2
61	Gas Hydrate Related Bottom-Simulating Reflections Along the West-Svalbard Margin, Fram Strait. , 2022, , 225-235.		1