Xiaole Sun

List of Publications by Year
in descending order

26 papers	597 citations	687363 13 h-index	610901 24 g-index
31 all docs	31 docs citations	31 times ranked	1054 citing authors

#	Article	IF	Citations
1	Significant contribution of authigenic carbonate to marine carbon burial. Nature Geoscience, 2014, 7, 201-204.	12.9	115
2	Climate Variability Controls on CO₂ Consumption Fluxes and Carbon Dynamics for Monsoonal Rivers: Evidence From Xijiang River, Southwest China. Journal of Geophysical Research G: Biogeosciences, 2018, 123, 2553-2567.	3.0	58
3	Diffusive cation fluxes in deep-sea sediments and insight into the global geochemical cycles of calcium, magnesium, sodium and potassium. Marine Geology, 2016, 373, 64-77.	2.1	46
4	High Emissions of Carbon Dioxide and Methane From the Coastal Baltic Sea at the End of a Summer Heat Wave. Frontiers in Marine Science, 2019, 6, .	2.5	41
5	GEOTRACES inter-calibration of the stable silicon isotope composition of dissolved silicic acid in seawater. Journal of Analytical Atomic Spectrometry, 2017, 32, 562-578.	3.0	37
6	Effects of growth and dissolution on the fractionation of silicon isotopes by estuarine diatoms. Geochimica Et Cosmochimica Acta, 2014, 130, 156-166.	3.9	35
7	High potential of stable carbon sequestration in phytoliths of China's grasslands. Global Change Biology, 2022, 28, 2736-2750.	9.5	23
8	Carbon mineralization in Laptev and East Siberian sea shelf and slope sediment. Biogeosciences, 2018, 15, 471-490.	3.3	22
9	Stable silicon isotopic compositions of the Lena River and its tributaries: Implications for silicon delivery to the Arctic Ocean. Geochimica Et Cosmochimica Acta, 2018, 241, 120-133.	3.9	21
10	Controls on the Precipitation of Carbonate Minerals Within Marine Sediments. Frontiers in Earth Science, 2021, 9, .	1.8	21
11	Silicon isotope enrichment in diatoms during nutrient-limited blooms in a eutrophied river system. Journal of Geochemical Exploration, 2013, 132, 173-180.	3.2	18
12	Sedimentary alkalinity generation and long-term alkalinity development in the Baltic Sea. Biogeosciences, 2019, 16, 437-456.	3.3	18
13	Spatial distribution of plant-available silicon and its controlling factors in paddy fields of China. Geoderma, 2021, 401, 115215.	5.1	16
14	High spatiotemporal variability of methane concentrations challenges estimates of emissions across vegetated coastal ecosystems. Global Change Biology, 2022, 28, 4308-4322.	9.5	16
15	Creek Dynamics Determine Pond Subsurface Geochemical Heterogeneity in East Anglian (UK) Salt Marshes. Frontiers in Earth Science, 2019, 7, .	1.8	14
16	Low Abundance of Methanotrophs in Sediments of Shallow Boreal Coastal Zones With High Water Methane Concentrations. Frontiers in Microbiology, 2020, 11, 1536.	3.5	14
17	Stable silicon isotope analysis on nanomole quantities using MC-ICP-MS with a hexapole gas-collision cell. Journal of Analytical Atomic Spectrometry, 2010, 25, 156-162.	3.0	13
18	Understanding Environmental Changes in Temperate Coastal Seas: Linking Models of Benthic Fauna to Carbon and Nutrient Fluxes. Frontiers in Marine Science, 2020, 7, .	2.5	13

#	Article	IF	Citations
19	Climate dependent diatom production is preserved in biogenic Si isotope signatures. Biogeosciences, 2011, 8, 3491-3499.	3.3	12
20	Temporal and spatial variations of rock weathering and CO2 consumption in the Baltic Sea catchment. Chemical Geology, 2017, 466, 57-69.	3.3	10
21	The Importance of Benthic Nutrient Fluxes in Supporting Primary Production in the Laptev and East Siberian Shelf Seas. Global Biogeochemical Cycles, 2021, 35, e2020GB006849.	4.9	8
22	Impact of human disturbance on the biogeochemical silicon cycle in a coastal sea revealed by silicon isotopes. Limnology and Oceanography, 2020, 65, 515-528.	3.1	7
23	Modelling the Effects of Non-Steady State Transport Dynamics on the Sulfur and Oxygen Isotope Composition of Sulfate in Sedimentary Pore Fluids. Frontiers in Earth Science, 2021, 8, .	1.8	7
24	Assessing Sedimentary Boundary Layer Calcium Carbonate Precipitation and Dissolution Using the Calcium Isotopic Composition of Pore Fluids. Frontiers in Earth Science, 2021, 9, .	1.8	4
25	Anthropogenic Inputs of Terrestrial Organic Matter Influence Carbon Loading and Methanogenesis in Coastal Baltic Sea Sediments. Frontiers in Earth Science, 2021, 9, .	1.8	3
26	The Critical Role of Sediment Nutrient Cycling for the Nutrient Budget of the Laptev and East Siberian Shelf Sea. , 2021, , .		0