

# Xiaole Sun

## List of Publications by Year in descending order

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Version: 2024-02-01

26  
papers

597  
citations

687335

13  
h-index

610883

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. <i>Nature Geoscience</i> , 2014, 7, 201-204.	12.9	115
2	Climate Variability Controls on CO <sub>2</sub> Consumption Fluxes and Carbon Dynamics for Monsoonal Rivers: Evidence From Xijiang River, Southwest China. <i>Journal of Geophysical Research C: Biogeosciences</i> , 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. <i>Marine Geology</i> , 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. <i>Frontiers in Marine Science</i> , 2019, 6, .	2.5	41
5	GEOTRACES inter-calibration of the stable silicon isotope composition of dissolved silicic acid in seawater. <i>Journal of Analytical Atomic Spectrometry</i> , 2017, 32, 562-578.	3.0	37
6	Effects of growth and dissolution on the fractionation of silicon isotopes by estuarine diatoms. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 130, 156-166.	3.9	35
7	High potential of stable carbon sequestration in phytoliths of China's grasslands. <i>Global Change Biology</i> , 2022, 28, 2736-2750.	9.5	23
8	Carbon mineralization in Laptev and East Siberian sea shelf and slope sediment. <i>Biogeosciences</i> , 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. <i>Geochimica Et Cosmochimica Acta</i> , 2018, 241, 120-133.	3.9	21
10	Controls on the Precipitation of Carbonate Minerals Within Marine Sediments. <i>Frontiers in Earth Science</i> , 2021, 9, .	1.8	21
11	Silicon isotope enrichment in diatoms during nutrient-limited blooms in a eutrophied river system. <i>Journal of Geochemical Exploration</i> , 2013, 132, 173-180.	3.2	18
12	Sedimentary alkalinity generation and long-term alkalinity development in the Baltic Sea. <i>Biogeosciences</i> , 2019, 16, 437-456.	3.3	18
13	Spatial distribution of plant-available silicon and its controlling factors in paddy fields of China. <i>Geoderma</i> , 2021, 401, 115215.	5.1	16
14	High spatiotemporal variability of methane concentrations challenges estimates of emissions across vegetated coastal ecosystems. <i>Global Change Biology</i> , 2022, 28, 4308-4322.	9.5	16
15	Creek Dynamics Determine Pond Subsurface Geochemical Heterogeneity in East Anglian (UK) Salt Marshes. <i>Frontiers in Earth Science</i> , 2019, 7, .	1.8	14
16	Low Abundance of Methanotrophs in Sediments of Shallow Boreal Coastal Zones With High Water Methane Concentrations. <i>Frontiers in Microbiology</i> , 2020, 11, 1536.	3.5	14
17	Stable silicon isotope analysis on nanomole quantities using MC-ICP-MS with a hexapole gas-collision cell. <i>Journal of Analytical Atomic Spectrometry</i> , 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. <i>Frontiers in Marine Science</i> , 2020, 7, .	2.5	13

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19	Climate dependent diatom production is preserved in biogenic Si isotope signatures. <i>Biogeosciences</i> , 2011, 8, 3491-3499.	3.3	12
20	Temporal and spatial variations of rock weathering and CO <sub>2</sub> consumption in the Baltic Sea catchment. <i>Chemical Geology</i> , 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. <i>Global Biogeochemical Cycles</i> , 2021, 35, e2020GB006849.	4.9	8
22	Impact of human disturbance on the biogeochemical silicon cycle in a coastal sea revealed by silicon isotopes. <i>Limnology and Oceanography</i> , 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. <i>Frontiers in Earth Science</i> , 2021, 8, .	1.8	7
24	Assessing Sedimentary Boundary Layer Calcium Carbonate Precipitation and Dissolution Using the Calcium Isotopic Composition of Pore Fluids. <i>Frontiers in Earth Science</i> , 2021, 9, .	1.8	4
25	Anthropogenic Inputs of Terrestrial Organic Matter Influence Carbon Loading and Methanogenesis in Coastal Baltic Sea Sediments. <i>Frontiers in Earth Science</i> , 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