

Brivaela Moriceau

List of Publications by Year in descending order

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Version: 2024-02-01

33
papers

2,261
citations

471371

17
h-index

395590

33
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35
all docs

35
docs citations

35
times ranked

3265
citing authors

#	ARTICLE	IF	CITATIONS
1	Interactions between microplastics and phytoplankton aggregates: Impact on their respective fates. <i>Marine Chemistry</i> , 2015, 175, 39-46.	0.9	511
2	Influence of diatom diversity on the ocean biological carbon pump. <i>Nature Geoscience</i> , 2018, 11, 27-37.	5.4	451
3	Interactions between polystyrene microplastics and marine phytoplankton lead to species-specific hetero-aggregation. <i>Environmental Pollution</i> , 2017, 228, 454-463.	3.7	270
4	Anthropogenic perturbations of the silicon cycle at the global scale: Key role of the land-ocean transition. <i>Global Biogeochemical Cycles</i> , 2009, 23, .	1.9	158
5	Si and C interactions in the world ocean: Importance of ecological processes and implications for the role of diatoms in the biological pump. <i>Global Biogeochemical Cycles</i> , 2006, 20, n/a-n/a.	1.9	144
6	Composition and degradation of marine particles with different settling velocities in the northwestern Mediterranean Sea. <i>Limnology and Oceanography</i> , 2007, 52, 1645-1664.	1.6	79
7	Applicability of the FDA assay to determine the viability of marine phytoplankton under different environmental conditions. <i>Marine Ecology - Progress Series</i> , 2007, 352, 17-26.	0.9	65
8	Do transparent exopolymeric particles (TEP) affect the toxicity of nanoplastics on <i>Chaetoceros neogracile</i> ?. <i>Environmental Pollution</i> , 2019, 250, 873-882.	3.7	58
9	Controls on the Recycling and Preservation of Biogenic Silica from Biomineralization to Burial. <i>Silicon</i> , 2012, 4, 7-22.	1.8	56
10	Biodeposition by an Invasive Suspension Feeder Impacts the Biogeochemical Cycle of Si in a Coastal Ecosystem (Bay of Brest, France). <i>Biogeochemistry</i> , 2005, 75, 19-41.	1.7	55
11	New guidelines for the application of Stokes' models to the sinking velocity of marine aggregates. <i>Limnology and Oceanography</i> , 2020, 65, 1264-1285.	1.6	46
12	Evidence for reduced biogenic silica dissolution rates in diatom aggregates. <i>Marine Ecology - Progress Series</i> , 2007, 333, 129-142.	0.9	46
13	Si-C interactions during degradation of the diatom <i>Skeletonema marinoi</i> . <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2009, 56, 1381-1395.	0.6	39
14	Spatial and temporal variability in export fluxes of biogenic matter in Kongsfjorden. <i>Polar Biology</i> , 2016, 39, 1725-1738.	0.5	39
15	Green Edge ice camp campaigns: understanding the processes controlling the under-ice Arctic phytoplankton spring bloom. <i>Earth System Science Data</i> , 2020, 12, 151-176.	3.7	32
16	A benthic Si mass balance on the Congo margin: Origin of the 4000m DSi anomaly and implications for the transfer of Si from land to ocean. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2009, 56, 2197-2207.	0.6	27
17	Late spring bloom development of pelagic diatoms in Baffin Bay. <i>Elementa</i> , 2019, 7, .	1.1	22
18	Benthic-pelagic coupling and the seasonal silica cycle in the Bay of Brest (France): new insights from a coupled physical-biological model. <i>Marine Ecology - Progress Series</i> , 2009, 385, 15-32.	0.9	17

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19	Degradation of diatom carbohydrates: A case study with N- and Si-stressed <i>Thalassiosira weissflogii</i> . <i>Journal of Experimental Marine Biology and Ecology</i> , 2015, 470, 1-11.	0.7	16
20	Copepods Boost the Production but Reduce the Carbon Export Efficiency by Diatoms. <i>Frontiers in Marine Science</i> , 2018, 5, .	1.2	15
21	Rapid transport and high accumulation of amorphous silica in the Congo deep-sea fan: A preliminary budget. <i>Journal of Marine Systems</i> , 2015, 141, 71-79.	0.9	14
22	Importance of particle formation to reconstructed water column biogenic silica fluxes. <i>Global Biogeochemical Cycles</i> , 2007, 21, .	1.9	13
23	Effect of trace metal-limited growth on the postmortem dissolution of the marine diatom <i>Pseudo-nitzschia delicatissima</i> . <i>Global Biogeochemical Cycles</i> , 2016, 30, 57-69.	1.9	13
24	Fatty acids associated with the frustules of diatoms and their fate during degradation—A case study in <i>Thalassiosira weissflogii</i> . <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2014, 86, 21-31.	0.6	11
25	Copepod Grazing Influences Diatom Aggregation and Particle Dynamics. <i>Frontiers in Marine Science</i> , 2019, 6, .	1.2	11
26	Role of small Rhizaria and diatoms in the pelagic silica production of the Southern Ocean. <i>Limnology and Oceanography</i> , 2021, 66, 2187-2202.	1.6	11
27	Efficiency of sympagic-benthic coupling revealed by analyses of n-3 fatty acids, IP25 and other highly branched isoprenoids in two filter-feeding Arctic benthic molluscs: <i>Mya truncata</i> and <i>Serripes groenlandicus</i> . <i>Organic Geochemistry</i> , 2021, 151, 104160.	0.9	10
28	Editorial: Biogeochemistry and Genomics of Silicification and Silicifiers. <i>Frontiers in Marine Science</i> , 2019, 6, .	1.2	7
29	Phosphorus limitation affects the molecular composition of <i>Thalassiosira weissflogii</i> leading to increased biogenic silica dissolution and high degradation rates of cellular carbohydrates. <i>Organic Geochemistry</i> , 2020, 148, 104068.	0.9	6
30	Transparent Exopolymeric Particles (TEP) Selectively Increase Biogenic Silica Dissolution From Fossil Diatoms as Compared to Fresh Diatoms. <i>Frontiers in Marine Science</i> , 2018, 5, .	1.2	5
31	Processes controlling aggregate formation and distribution during the Arctic phytoplankton spring bloom in Baffin Bay. <i>Elementa</i> , 2021, 9, .	1.1	5
32	Biogenic silica dissolution in diatom aggregates: insights from reactive transport modelling. <i>Marine Ecology - Progress Series</i> , 2014, 517, 35-49.	0.9	2
33	Effect of P depletion on the functional pools of diatom carbohydrates, and their utilization by bacterial communities. <i>Marine Ecology - Progress Series</i> , 2020, 641, 49-62.	0.9	2