

# Matthieu Bressac

## List of Publications by Year in descending order

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Version: 2024-02-01

22  
papers

633  
citations

687363

13  
h-index

677142

22  
g-index

39  
all docs

39  
docs citations

39  
times ranked

906  
citing authors

#	ARTICLE	IF	CITATIONS
1	Evidence of active dinitrogen fixation in surface waters of the eastern tropical South Pacific during El Niño and La Niña events and evaluation of its potential nutrient controls. <i>Global Biogeochemical Cycles</i> , 2013, 27, 768-779.	4.9	76
2	Exploring the ecology of the mesopelagic biological pump. <i>Progress in Oceanography</i> , 2019, 176, 102125.	3.2	55
3	Impacts of dust deposition on dissolved trace metal concentrations (Mn, Al and Fe) during a mesocosm experiment. <i>Biogeosciences</i> , 2013, 10, 2583-2600.	3.3	52
4	Quantification of the lithogenic carbon pump following a simulated dust-deposition event in large mesocosms. <i>Biogeosciences</i> , 2014, 11, 1007-1020.	3.3	45
5	A mesocosm experiment coupled with optical measurements to assess the fate and sinking of atmospheric particles in clear oligotrophic waters. <i>Geo-Marine Letters</i> , 2012, 32, 153-164.	1.1	43
6	Perspective on identifying and characterizing the processes controlling iron speciation and residence time at the atmosphere-ocean interface. <i>Marine Chemistry</i> , 2019, 217, 103704.	2.3	41
7	Impact of dust deposition on carbon budget: a tentative assessment from a mesocosm approach. <i>Biogeosciences</i> , 2014, 11, 5621-5635.	3.3	39
8	Post-depositional processes: What really happens to new atmospheric iron in the ocean's surface?. <i>Global Biogeochemical Cycles</i> , 2013, 27, 859-870.	4.9	37
9	Resupply of mesopelagic dissolved iron controlled by particulate iron composition. <i>Nature Geoscience</i> , 2019, 12, 995-1000.	12.9	29
10	Microbial Competition in the Subpolar Southern Ocean: An Fe-C Co-limitation Experiment. <i>Frontiers in Marine Science</i> , 2020, 6, .	2.5	24
11	Characterizing the surface microlayer in the Mediterranean Sea: trace metal concentrations and microbial plankton abundance. <i>Biogeosciences</i> , 2020, 17, 2349-2364.	3.3	23
12	Role of ultra-violet radiation, mercury and copper on the stability of dissolved glutathione in natural and artificial freshwater and saltwater. <i>Chemosphere</i> , 2010, 80, 1314-1320.	8.2	22
13	Excess of <sup>236</sup> U in the northwest Mediterranean Sea. <i>Science of the Total Environment</i> , 2016, 565, 767-776.	8.0	22
14	Contribution of Electroactive Humic Substances to the Iron-Binding Ligands Released During Microbial Remineralization of Sinking Particles. <i>Geophysical Research Letters</i> , 2020, 47, e2019GL086685.	4.0	14
15	Temporal evolution of <sup>137</sup> Cs, <sup>237</sup> Np, and <sup>239+240</sup> Pu and estimated vertical <sup>239+240</sup> Pu export in the northwestern Mediterranean Sea. <i>Science of the Total Environment</i> , 2017, 595, 178-190.	8.0	13
16	Dissolved inorganic nitrogen and phosphorus dynamics in seawater following an artificial Saharan dust deposition event. <i>Frontiers in Marine Science</i> , 2015, 2, .	2.5	12
17	Wet deposition in the remote western and central Mediterranean as a source of trace metals to surface seawater. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 2309-2332.	4.9	10
18	Dissolved Iron Patterns Impacted by Shallow Hydrothermal Sources Along a Transect Through the Tonga-Kermadec Arc. <i>Global Biogeochemical Cycles</i> , 2022, 36, .	4.9	10

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19	Developing a test-bed for robust research governance of geoengineering: the contribution of ocean iron biogeochemistry. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2016, 374, 20150299.	3.4	9
20	Subsurface iron accumulation and rapid aluminum removal in the Mediterranean following African dust deposition. <i>Biogeosciences</i> , 2021, 18, 6435-6453.	3.3	7
21	Contrasted release of insoluble elements (Fe, Al, rare earth elements, Th, Pa) after dust deposition in seawater: a tank experiment approach. <i>Biogeosciences</i> , 2021, 18, 2663-2678.	3.3	6
22	Nitrogen fixation in the Mediterranean Sea related to the composition of the diazotrophic community and impact of dust under present and future environmental conditions. <i>Biogeosciences</i> , 2022, 19, 415-435.	3.3	5