

# Eric Viollier

## List of Publications by Year in descending order

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Version: 2024-02-01

53  
papers

3,638  
citations

257101

24  
h-index

189595

50  
g-index

56  
all docs

56  
docs citations

56  
times ranked

4718  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Mass collection of magnetotactic bacteria from the permanently stratified ferruginous Lake Pavin, France. <i>Environmental Microbiology</i> , 2022, 24, 721-736.   | 1.8 | 7         |
| 2  | Bioavailability of chromium, nickel, iron and manganese in relation to their speciation in coastal sediments downstream of ultramafic catchments: A case study in New Caledonia. <i>Chemosphere</i> , 2022, 302, 134643.     | 4.2 | 7         |
| 3  | Intracellular amorphous Ca-carbonate and magnetite biomineralization by a magnetotactic bacterium affiliated to the Alphaproteobacteria. <i>ISME Journal</i> , 2021, 15, 1-18.   | 4.4 | 52        |
| 4  | Trace element geochemistry of the Pavin crater lake (France): Chemical reactions and recycling in the monimolimnion. , 2021, , 331-334.  |     | 1         |
| 5  | Comparative Cr and Mn speciation across a shore-to-reef gradient in lagoon sediments downstream of Cr-rich Ferralsols upon ultramafic rocks in New Caledonia. <i>Journal of Geochemical Exploration</i> , 2021, 229, 106845. | 1.5 | 2         |
| 6  | Biogeochemical Niche of Magnetotactic Cocci Capable of Sequestering Large Polyphosphate Inclusions in the Anoxic Layer of the Lake Pavin Water Column. <i>Frontiers in Microbiology</i> , 2021, 12, 789134.                  | 1.5 | 3         |
| 7  | Nickel and iron partitioning between clay minerals, Fe-oxides and Fe-sulfides in lagoon sediments from New Caledonia. <i>Science of the Total Environment</i> , 2019, 689, 1212-1227.  | 3.9 | 26        |
| 8  | Ectosymbiotic bacteria at the origin of magnetoreception in a marine protist. <i>Nature Microbiology</i> , 2019, 4, 1088-1095.   | 5.9 | 57        |
| 9  | Dynamics of organic matter in the Seine Estuary (France): Bulk and structural approaches. <i>Marine Chemistry</i> , 2019, 212, 108-119.  | 0.9 | 13        |
| 10 | Contribution of resuspended sedimentary particles to dissolved iron and manganese in the ocean: An experimental study. <i>Chemical Geology</i> , 2019, 511, 389-415.   | 1.4 | 25        |
| 11 | Transient early diagenetic processes in Rhône prodelta sediments revealed in contrasting flood events. <i>Continental Shelf Research</i> , 2018, 166, 65-76.   | 0.9 | 10        |
| 12 | Oxidation of Ni-Rich Mangrove Sediments after Isolation from the Sea (Dumbea Bay, New Caledonia): Fe and Ni Behavior and Environmental Implications. <i>ACS Earth and Space Chemistry</i> , 2017, 1, 455-464.                | 1.2 | 21        |
| 13 | The Iron Wheel in Lac Pavin: Interaction with Phosphorus Cycle. , 2016, , 205-220.   |     | 14        |
| 14 | Carbon Cycle in a Meromictic Crater Lake: Lake Pavin, France. , 2016, , 185-203.   |     | 2         |
| 15 | Remobilisation of uranium from contaminated freshwater sediments by bioturbation. <i>Biogeosciences</i> , 2014, 11, 3381-3396.   | 1.3 | 9         |
| 16 | Artificially induced migration of redox layers in a coastal sediment from the Northern Adriatic. <i>Biogeosciences</i> , 2014, 11, 2211-2224.  | 1.3 | 17        |
| 17 | Iron isotopes in an Archean ocean analogue. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 133, 443-462.   | 1.6 | 118       |
| 18 | EXAFS analysis of iron cycling in mangrove sediments downstream a lateritized ultramafic watershed (Vavouto Bay, New Caledonia). <i>Geochimica Et Cosmochimica Acta</i> , 2014, 136, 211-228.                                | 1.6 | 93        |

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|----|---|------|-----------|
| 19 | Biogeochemical Dynamics of Molybdenum in a Crater Lake: Seasonal Impact and Long-Term Removal. <i>Journal of Water Resource and Protection</i> , 2014, 06, 256-271.   | 0.3  | 4         |
| 20 | Electrochemical and Colorimetric Measurements Show the Dominant Role of FeS in a Permanently Anoxic Lake. <i>Environmental Science &amp; Technology</i> , 2013, 47, 741-749.  | 4.6  | 19        |
| 21 | Spatial and Temporal Variability of Sediment Organic Matter Recycling in Two Temperate Eutrophicated Estuaries. <i>Aquatic Geochemistry</i> , 2013, 19, 517-542.  | 1.5  | 18        |
| 22 | Millimeter-scale alkalinity measurement in marine sediment using DET probes and colorimetric determination. <i>Water Research</i> , 2013, 47, 5575-5583.  | 5.3  | 14        |
| 23 | Carbon Cycling and Organic Radiocarbon Reservoir Effect in a Meromictic Crater Lake (Lac Pavin, France). <i>Journal of Geophysical Research</i> , 2010, 115, F03001.  | 0.8  | 19        |
| 24 | Carbon Cycling and Organic Radiocarbon Reservoir Effect in a Meromictic Crater Lake (Lac Pavin, France). <i>Journal of Geophysical Research</i> , 2010, 115, F03001.  | 0.8  | 19        |
| 25 | Biogeochemical modelling of anaerobic vs. aerobic methane oxidation in a meromictic crater lake (Lake Pavin, France). <i>Applied Geochemistry</i> , 2011, 26, 1919-1932.  | 1.4  | 75        |
| 26 | Modeling biogeochemical processes in sediments from the Rhône River prodelta area (NW Mediterranean Sea). <i>Journal of Geophysical Research</i> , 2010, 115, F03001.   | 1.3  | 43        |
| 27 | Influence of the organic matter composition on benthic oxygen demand in the Rhône River prodelta (NW Mediterranean Sea). <i>Continental Shelf Research</i> , 2011, 31, 1008-1019.   | 0.9  | 61        |
| 28 | Biogeochemical Modelling of a Seasonally Anoxic Lake: Calibration of Successive and Competitive Pathways and Processes in Lake Aydat, France. <i>Aquatic Geochemistry</i> , 2010, 16, 587-610.  | 1.5  | 7         |
| 29 | Intensive sampling of iodine and nutrient speciation in naturally eutrophicated anchialine pond (Rogoznica Lake) during spring and summer seasons. <i>Estuarine, Coastal and Shelf Science</i> , 2010, 87, 265-274.                   | 0.9  | 14        |
| 30 | Temporal variability of carbon recycling in coastal sediments influenced by rivers: assessing the impact of flood inputs in the Rhône River prodelta. <i>Biogeosciences</i> , 2010, 7, 1187-1205.                                     | 1.3  | 61        |
| 31 | Reduced sulfur and iron species in anoxic water column of meromictic crater Lake Pavin (Massif Central, France). <i>Journal of Geophysical Research</i> , 2010, 115, F03001.  | 1.4  | 55        |
| 32 | Short-term variations in abundances and potential activities of viruses, bacteria and nanoprotoists in Lake Bourget. <i>Ecological Research</i> , 2008, 23, 851-861.  | 0.7  | 16        |
| 33 | Interactions between Volatile Reduced Sulfur Compounds and Metals in the Seine Estuary (France). <i>Estuaries and Coasts</i> , 2008, 31, 1063-1071.   | 1.0  | 10        |
| 34 | Hydrological budget, carbon sources and biogeochemical processes in Lac Pavin (France): Constraints from $\delta^{18}O$ of water and $\delta^{13}C$ of dissolved inorganic carbon. <i>Applied Geochemistry</i> , 2008, 23, 2800-2816. | 1.4  | 57        |
| 35 | Fe-binding dissolved organic ligands near the Kerguelen Archipelago in the Southern Ocean (Indian Ocean). <i>Journal of Geophysical Research</i> , 2010, 115, F03001.   | 0.6  | 55        |
| 36 | Effect of natural iron fertilization on carbon sequestration in the Southern Ocean. <i>Nature</i> , 2007, 446, 1070-1074.   | 13.7 | 707       |

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|----|---|-----|-----------|
| 37 | Benthic response to shellfish farming in Thau lagoon: Pore water signature. <i>Estuarine, Coastal and Shelf Science</i> , 2007, 72, 406-419.  | 0.9 | 50        |
| 38 | Influence of diagenetic processes in Thau lagoon on cadmium behavior and benthic fluxes. <i>Estuarine, Coastal and Shelf Science</i> , 2007, 72, 497-510.   | 0.9 | 20        |
| 39 | Two-dimensional determination of dissolved iron and sulfur species in marine sediment pore-waters by thin-film based imaging. Thau lagoon (France). <i>Estuarine, Coastal and Shelf Science</i> , 2007, 72, 420-431.        | 0.9 | 60        |
| 40 | Sedimentary record of redox-sensitive elements (U, Mn, Mo) in a transitory anoxic basin (the Thau) Tj ETQq0 0 0 rgBT/Overlock 10 Tf 50  | 0.9 | 44        |
| 41 | Salt marsh pore water geochemistry does not correlate with microbial community structure. <i>Estuarine, Coastal and Shelf Science</i> , 2005, 62, 233-251.  | 0.9 | 88        |
| 42 | A NEW IDEA IN MARSH CORING. <i>Soil Science Society of America Journal</i> , 2004, 68, 705.   | 1.2 | 4         |
| 43 | Kinetics of microbially mediated reactions: dissimilatory sulfate reduction in saltmarsh sediments (Sapelo Island, Georgia, USA). <i>Estuarine, Coastal and Shelf Science</i> , 2003, 56, 1001-1010.                        | 0.9 | 41        |
| 44 | Benthic biogeochemistry: state of the art technologies and guidelines for the future of in situ survey. <i>Journal of Experimental Marine Biology and Ecology</i> , 2003, 285-286, 5-31.                                    | 0.7 | 103       |
| 45 | Vitesses de rÃ©action de dissolution et prÃ©cipitation au voisinage de l'interface oxydo-rÃ©ducteur dans un lac mÃ©romictique: le lac Pavin (Puy de DÃ©me, France). <i>Revue Des Sciences De L'Eau</i> , 2003, 16, 199-218. | 0.2 | 10        |
| 46 | The ferrozine method revisited: Fe(II)/Fe(III) determination in natural waters. <i>Applied Geochemistry</i> , 2000, 15, 785-790.  | 1.4 | 1,086     |
| 47 | A plug flow-through reactor for studying biogeochemical reactions in undisturbed aquatic sediments. <i>Applied Geochemistry</i> , 1998, 13, 269-280.  | 1.4 | 68        |
| 48 | Biogeochemical Cycles of Manganese and Iron at the Oxic-Anoxic Transition of a Stratified Marine Basin (Orca Basin, Gulf of Mexico). <i>Environmental Science &amp; Technology</i> , 1998, 32, 2931-2939.                   | 4.6 | 122       |
| 49 | Geochemical study of a crater lake: Lake Pavin, Puy de DÃ©me, France. Constraints afforded by the particulate matter distribution in the element cycling within the lake. <i>Chemical Geology</i> , 1997, 142, 225-241.     | 1.4 | 62        |
| 50 | Geochemical study of the Lac du Bouchet, Haute-Loire, France Part I: water balance and biogeochemical implications. <i>Lecture Notes in Earth Sciences</i> , 1995, , 95-118.  | 0.5 | 1         |
| 51 | Geochemical study of a crater lake (Pavin Lake, France): Trace-element behaviour in the monimolimnion. <i>Chemical Geology</i> , 1995, 125, 61-72.  | 1.4 | 81        |
| 52 | Geochemical study of a crater lake: Pavin Lake, France - Identification, location and quantification of the chemical reactions in the lake. <i>Chemical Geology</i> , 1994, 115, 103-115.                                   | 1.4 | 70        |
| 53 | Une sonde photomÃ©trique pour l'analyse in situ: Principe, mÃ©thode, premiers essais. <i>Revue Des Sciences De L'Eau</i> , 1993, 6, 395-410.  | 0.2 | 1         |