

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	The ferrozine method revisited: Fe(II)/Fe(III) determination in natural waters. <i>Applied Geochemistry</i> , 2000, 15, 785-790.	1.4	1,086
2	Effect of natural iron fertilization on carbon sequestration in the Southern Ocean. <i>Nature</i> , 2007, 446, 1070-1074.	13.7	707
3	Biogeochemical Cycles of Manganese and Iron at the Oxic-Anoxic Transition of a Stratified Marine Basin (Orca Basin, Gulf of Mexico). <i>Environmental Science & Technology</i> , 1998, 32, 2931-2939.	4.6	122
4	Iron isotopes in an Archean ocean analogue. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 133, 443-462.	1.6	118
5	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
6	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
7	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
8	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
9	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
10	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
11	A plug flow-through reactor for studying biogeochemical reactions in undisturbed aquatic sediments. <i>Applied Geochemistry</i> , 1998, 13, 269-280.	1.4	68
12	Geochemical study of a crater lake: Lake Pavin, Puy de Dôme, 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
13	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
14	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
15	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
16	Hydrological budget, carbon sources and biogeochemical processes in Lac Pavin (France): Constraints from $\delta^{18}\text{O}$ of water and $\delta^{13}\text{C}$ of dissolved inorganic carbon. <i>Applied Geochemistry</i> , 2008, 23, 2800-2816.	1.4	57
17	Ectosymbiotic bacteria at the origin of magnetoreception in a marine protist. <i>Nature Microbiology</i> , 2019, 4, 1088-1095.	5.9	57
18	Fe-binding dissolved organic ligands near the Kerguelen Archipelago in the Southern Ocean (Indian) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	0.6	55

#	ARTICLE	IF	CITATIONS
19	Reduced sulfur and iron species in anoxic water column of meromictic crater Lake Pavin (Massif Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50	1.4	55
20	Intracellular amorphous Ca-carbonate and magnetite biomineralization by a magnetotactic bacterium affiliated to the Alphaproteobacteria. ISME Journal, 2021, 15, 1-18.	4.4	52
21	Benthic response to shellfish farming in Thau lagoon: Pore water signature. Estuarine, Coastal and Shelf Science, 2007, 72, 406-419.	0.9	50
22	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
23	Modeling biogeochemical processes in sediments from the Rhône River prodelta area (NW) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50	1.3	43
24	Kinetics of microbially mediated reactions: dissimilatory sulfate reduction in saltmarsh sediments (Sapelo Island, Georgia, USA). Estuarine, Coastal and Shelf Science, 2003, 56, 1001-1010.	0.9	41
25	Nickel and iron partitioning between clay minerals, Fe-oxides and Fe-sulfides in lagoon sediments from New Caledonia. Science of the Total Environment, 2019, 689, 1212-1227.	3.9	26
26	Contribution of resuspended sedimentary particles to dissolved iron and manganese in the ocean: An experimental study. Chemical Geology, 2019, 511, 389-415.	1.4	25
27	Oxidation of Ni-Rich Mangrove Sediments after Isolation from the Sea (Dumbea Bay, New Caledonia): Fe and Ni Behavior and Environmental Implications. ACS Earth and Space Chemistry, 2017, 1, 455-464.	1.2	21
28	Influence of diagenetic processes in Thau lagoon on cadmium behavior and benthic fluxes. Estuarine, Coastal and Shelf Science, 2007, 72, 497-510.	0.9	20
29	Electrochemical and Colorimetric Measurements Show the Dominant Role of FeS in a Permanently Anoxic Lake. Environmental Science & Technology, 2013, 47, 741-749.	4.6	19
30	Carbon Cycling and Organic Radiocarbon Reservoir Effect in a Meromictic Crater Lake (Lac Pavin,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	0.8	19
31	Spatial and Temporal Variability of Sediment Organic Matter Recycling in Two Temperate Eutrophicated Estuaries. Aquatic Geochemistry, 2013, 19, 517-542.	1.5	18
32	Artificially induced migration of redox layers in a coastal sediment from the Northern Adriatic. Biogeosciences, 2014, 11, 2211-2224.	1.3	17
33	Short-term variations in abundances and potential activities of viruses, bacteria and nanoprotists in Lake Bourget. Ecological Research, 2008, 23, 851-861.	0.7	16
34	Intensive sampling of iodine and nutrient speciation in naturally eutrophicated anchialine pond (Rogoznica Lake) during spring and summer seasons. Estuarine, Coastal and Shelf Science, 2010, 87, 265-274.	0.9	14
35	Millimeter-scale alkalinity measurement in marine sediment using DET probes and colorimetric determination. Water Research, 2013, 47, 5575-5583.	5.3	14
36	The Iron Wheel in Lac Pavin: Interaction with Phosphorus Cycle. , 2016, , 205-220.		14

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37	Dynamics of organic matter in the Seine Estuary (France): Bulk and structural approaches. <i>Marine Chemistry</i> , 2019, 212, 108-119.	0.9	13
38	Vitesses de réaction de dissolution et précipitation au voisinage de l'interface oxydo-réducteur dans un lac méromictique: le lac Pavin (Puy de Dôme, France). <i>Revue Des Sciences De L'Eau</i> , 2003, 16, 199-218.	0.2	10
39	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
40	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
41	Remobilisation of uranium from contaminated freshwater sediments by bioturbation. <i>Biogeosciences</i> , 2014, 11, 3381-3396.	1.3	9
42	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
43	Mass collection of magnetotactic bacteria from the permanently stratified ferruginous Lake Pavin, France. <i>Environmental Microbiology</i> , 2022, 24, 721-736.	1.8	7
44	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
45	A NEW IDEA IN MARSH CORING. <i>Soil Science Society of America Journal</i> , 2004, 68, 705.	1.2	4
46	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
47	Carbon Cycling and Organic Radiocarbon Reservoir Effect in a Meromictic Crater Lake (Lac Pavin, France). <i>Journal of Great Lakes Research</i> , 2016, 42, 107-114.	0.8	3
48	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
49	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
50	Carbon Cycle in a Meromictic Crater Lake: Lake Pavin, France. <i>Journal of Great Lakes Research</i> , 2016, 42, 185-203.		2
51	Une sonde photométrique pour l'analyse in situ: Principe, méthode, premiers essais. <i>Revue Des Sciences De L'Eau</i> , 1993, 6, 395-410.	0.2	1
52	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
53	Trace element geochemistry of the Pavin crater lake (France): Chemical reactions and recycling in the monimolimnion. <i>Journal of Great Lakes Research</i> , 2021, 47, 331-334.		1