## Anne-Catherine Pierson-Wickmann

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Large colonial organisms with coordinated growth in oxygenated environments 2.1 Gyr ago. Nature, 2010, 466, 100-104.	13.7	235
2	Unexpected spatial stability of water chemistry in headwater stream networks. Ecology Letters, 2018, 21, 296-308.	3.0	149
3	Are nanoplastics able to bind significant amount of metals? The lead example. Environmental Pollution, 2019, 249, 940-948.	3.7	124
4	Trace metals in polyethylene debris from the North Atlantic subtropical gyre. Environmental Pollution, 2019, 245, 371-379.	3.7	123
5	Oxygen dynamics in the aftermath of the Great Oxidation of Earth's atmosphere. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 16736-16741.	3.3	112
6	Compartmentalization of physical and chemical properties in hard-rock aquifers deduced from chemical and groundwater age analyses. Applied Geochemistry, 2008, 23, 2686-2707.	1.4	105
7	Hydrologically driven seasonal changes in the sources and production mechanisms of dissolved organic carbon in a small lowland catchment. Water Resources Research, 2013, 49, 5792-5803.	1.7	60
8	Carbon isotopes as tracers of dissolved organic carbon sources and water pathways in headwater catchments. Journal of Hydrology, 2011, 402, 228-238.	2.3	59
9	Behavior of Re and Os during low-temperature alteration: Results from Himalayan soils and altered black shales. Geochimica Et Cosmochimica Acta, 2002, 66, 1539-1548.	1.6	57
10	Long-Term Effects of High Nitrogen Loads on Cation and Carbon Riverine Export in Agricultural Catchments. Environmental Science & Technology, 2012, 46, 9447-9455.	4.6	56
11	The Os isotopic composition of Himalayan river bedloads and bedrocks: importance of black shales. Earth and Planetary Science Letters, 2000, 176, 203-218.	1.8	55
12	The 2.1 Ga Old Francevillian Biota: Biogenicity, Taphonomy and Biodiversity. PLoS ONE, 2014, 9, e99438.	1.1	53
13	DOC sources and DOC transport pathways in a small headwater catchment as revealed by carbon isotope fluctuation during storm events. Biogeosciences, 2014, 11, 3043-3056.	1.3	49
14	Acidification processes and soil leaching influenced by agricultural practices revealed by strontium isotopic ratios. Geochimica Et Cosmochimica Acta, 2009, 73, 4688-4704.	1.6	47
15	Os-Sr-Nd results from sediments in the Bay of Bengal: Implications for sediment transport and the marine Os record. Paleoceanography, 2001, 16, 435-444.	3.0	46
16	Climate-correlated variations in seawater 187Os/188Os over the past 200,000Âyr: Evidence from the Cariaco Basin, Venezuela. Earth and Planetary Science Letters, 2007, 263, 246-258.	1.8	44
17	Fluxes and sources of particulate organic carbon in the Ganga-Brahmaputra river system. Global Biogeochemical Cycles, 2006, 20, n/a-n/a.	1.9	42
18	High chemical weathering rates in first-order granitic catchments induced by agricultural stress. Chemical Geology, 2009, 265, 369-380.	1.4	42

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19	Offshore Frontal Part of the Makran Accretionary Prism: The Chamak Survey (Pakistan). Frontiers in Earth Sciences, 2007, , 351-366.	0.1	42
20	Origin of fecal contamination in waters from contrasted areas: Stanols as Microbial Source Tracking markers. Water Research, 2012, 46, 4009-4016.	5.3	39
21	Soap- and metal-free polystyrene latex particles as a nanoplastic model. Environmental Science: Nano, 2019, 6, 2253-2258.	2.2	38
22	Extreme Variability of Steroid Profiles in Cow Feces and Pig Slurries at the Regional Scale: Implications for the Use of Steroids to Specify Fecal Pollution Sources in Waters. Journal of Agricultural and Food Chemistry, 2011, 59, 7294-7302.	2.4	36
23	Physical, biogeochemical and isotopic processes related to heterogeneity of a shallow crystalline rock aquifer. Biogeochemistry, 2006, 81, 331-347.	1.7	31
24	Exceptional preservation of expandable clay minerals in the ca. 2.1Ga black shales of the Francevillian basin, Gabon and its implication for atmospheric oxygen accumulation. Chemical Geology, 2013, 362, 181-192.	1.4	31
25	Constraints on the Sources and Production Mechanisms of Dissolved Organic Matter in Soils from Molecular Biomarkers. Vadose Zone Journal, 2014, 13, 1-9.	1.3	25
26	Highlighting the wide variability in arsenic speciation in wetlands: A new insight into the control of the behavior of arsenic. Geochimica Et Cosmochimica Acta, 2017, 203, 284-302.	1.6	25
27	Sources of dissolved organic matter during storm and inter-storm conditions in a lowland headwater catchment: constraints from high-frequency molecular data. Biogeosciences, 2015, 12, 4333-4343.	1.3	23
28	Iron speciation at the riverbank surface in wetland and potential impact on the mobility of trace metals. Science of the Total Environment, 2019, 651, 443-455.	3.9	22
29	Unusual microbial matâ€related structural diversity 2.1 billion years ago and implications for the Francevillian biota. Geobiology, 2018, 16, 476-497.	1.1	20
30	AgrHyS: An Observatory of Response Times in Agroâ€Hydro Systems. Vadose Zone Journal, 2018, 17, 1-16.	1.3	19
31	lron isotope fractionation in iron-organic matter associations: Experimental evidence using filtration and ultrafiltration. Geochimica Et Cosmochimica Acta, 2019, 250, 98-116.	1.6	19
32	Development of a combined isotopic and mass-balance approach to determine dissolved organic carbon sources in eutrophic reservoirs. Chemosphere, 2011, 83, 356-366.	4.2	18
33	Sedimentology and U-Pb dating of Carboniferous to Permian continental series of the northern Massif Central (France): Local palaeogeographic evolution and larger scale correlations. Palaeogeography, Palaeoclimatology, Palaeoecology, 2019, 533, 109228.	1.0	17
34	A comparative study on the pore-size and filter type effect on the molecular composition of soil and stream dissolved organic matter. Organic Geochemistry, 2017, 110, 36-44.	0.9	16
35	Experimental evidence of REE size fraction redistribution during redox variation in wetland soil. Science of the Total Environment, 2018, 631-632, 580-588.	3.9	15
36	Trace Fossils from the Brioverian (Ediacaran–Fortunian) in Brittany (NW France). Ichnos, 2018, 25, 11-24.	0.8	15

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37	Helium trapped in historical slags: a search for temporal variation of the He isotopic composition of air. Earth and Planetary Science Letters, 2001, 194, 165-175.	1.8	13
38	Nanoscale relationships between uranium and carbonaceous material in alteration halos around unconformity-related uranium deposits of the Kiggavik camp, Paleoproterozoic Thelon Basin, Nunavut, Canada. Ore Geology Reviews, 2016, 79, 382-391.	1.1	13
39	Rare earth elements as tracers of active colloidal organic matter composition. Environmental Chemistry, 2020, 17, 133.	0.7	12
40	Impure marbles of the Lesser Himalaya: another source of continental radiogenic osmium. Earth and Planetary Science Letters, 2002, 204, 203-214.	1.8	11
41	Mineralogical sources of the buffer capacity in a granite catchment determined by strontium isotopes. Applied Geochemistry, 2008, 23, 2888-2905.	1.4	10
42	The role of the early diagenetic dolomitic concretions in the preservation of the 2.1-Ga paleoenvironmental signal: The Paleoproterozoic of the Franceville Basin, Gabon. Comptes Rendus - Geoscience, 2016, 348, 609-618.	0.4	10
43	Agricultural Practices and Hydrologic Conditions Shape the Temporal Pattern of Soil and Stream Water Dissolved Organic Matter. Ecosystems, 2020, 23, 1325-1343.	1.6	10
44	How does calcium drive the structural organization of iron–organic matter aggregates? A multiscale investigation. Environmental Science: Nano, 2020, 7, 2833-2849.	2.2	10
45	Os isotopic compositions of leachates and bulk sediments from the Bengal Fan. Earth and Planetary Science Letters, 1997, 150, 117-127.	1.8	9
46	First evidence of Ediacaran-Fortunian elliptical body fossils in the Brioverian series of Brittany, NW France. Lethaia, 2018, 51, 513-522.	0.6	8
47	Chemical Differentiation between Immersed and Dry Wood Samples in Nunavik (Northern Quebec,) Tj ETQq1 1 0	.784314 r 0.4	g&T /Overloc
48	More than redox, biological organic ligands control iron isotope fractionation in the riparian wetland. Scientific Reports, 2021, 11, 1933.	1.6	5
49	Re-Os Isotopic Characteristics of Himalayan River Sediments and Source Rocks. Mineralogical Magazine, 1998, 62A, 1178-1179.	0.6	4
50	Monitoring the Organic Matter Quality Highlights the Ways in Which Organic Matter Is Removed from Wetland Soil. Geosciences (Switzerland), 2021, 11, 134.	1.0	1
51	Does ultrafiltration kinetics bias iron isotope compositions?. Chemical Geology, 2021, 566, 120082.	1.4	1