

# Anne-Catherine Pierson-Wickmann

## List of Publications by Citations

**Source:**

<https://exaly.com/author-pdf/6087743/anne-catherine-pierson-wickmann-publications-by-citations.pdf>

**Version:** 2024-04-26

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

52  
papers

1,511  
citations

23  
h-index

38  
g-index

56  
ext. papers

1,779  
ext. citations

6  
avg, IF

4.24  
L-index

#	Paper	IF	Citations
52	Large colonial organisms with coordinated growth in oxygenated environments 2.1 Gyr ago. <i>Nature</i> , <b>2010</b> , 466, 100-4	50.4	175
51	Unexpected spatial stability of water chemistry in headwater stream networks. <i>Ecology Letters</i> , <b>2018</b> , 21, 296-308	10	105
50	Oxygen dynamics in the aftermath of the Great Oxidation of Earth's atmosphere. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2013</b> , 110, 16736-41	11.5	92
49	Compartmentalization of physical and chemical properties in hard-rock aquifers deduced from chemical and groundwater age analyses. <i>Applied Geochemistry</i> , <b>2008</b> , 23, 2686-2707	3.5	84
48	Trace metals in polyethylene debris from the North Atlantic subtropical gyre. <i>Environmental Pollution</i> , <b>2019</b> , 245, 371-379	9.3	77
47	Are nanoplastics able to bind significant amount of metals? The lead example. <i>Environmental Pollution</i> , <b>2019</b> , 249, 940-948	9.3	62
46	The Os isotopic composition of Himalayan river bedloads and bedrocks: importance of black shales. <i>Earth and Planetary Science Letters</i> , <b>2000</b> , 176, 203-218	5.3	53
45	Behavior of Re and Os during low-temperature alteration: Results from Himalayan soils and altered black shales. <i>Geochimica Et Cosmochimica Acta</i> , <b>2002</b> , 66, 1539-1548	5.5	52
44	Carbon isotopes as tracers of dissolved organic carbon sources and water pathways in headwater catchments. <i>Journal of Hydrology</i> , <b>2011</b> , 402, 228-238	6	51
43	Hydrologically driven seasonal changes in the sources and production mechanisms of dissolved organic carbon in a small lowland catchment. <i>Water Resources Research</i> , <b>2013</b> , 49, 5792-5803	5.4	50
42	Os-Sr-Nd results from sediments in the Bay of Bengal: Implications for sediment transport and the marine Os record. <i>Paleoceanography</i> , <b>2001</b> , 16, 435-444		44
41	Acidification processes and soil leaching influenced by agricultural practices revealed by strontium isotopic ratios. <i>Geochimica Et Cosmochimica Acta</i> , <b>2009</b> , 73, 4688-4704	5.5	43
40	Long-term effects of high nitrogen loads on cation and carbon riverine export in agricultural catchments. <i>Environmental Science &amp; Technology</i> , <b>2012</b> , 46, 9447-55	10.3	41
39	DOC sources and DOC transport pathways in a small headwater catchment as revealed by carbon isotope fluctuation during storm events. <i>Biogeosciences</i> , <b>2014</b> , 11, 3043-3056	4.6	40
38	High chemical weathering rates in first-order granitic catchments induced by agricultural stress. <i>Chemical Geology</i> , <b>2009</b> , 265, 369-380	4.2	36
37	Climate-correlated variations in seawater 187Os/188Os over the past 200,000yr: Evidence from the Cariaco Basin, Venezuela. <i>Earth and Planetary Science Letters</i> , <b>2007</b> , 263, 246-258	5.3	36
36	Fluxes and sources of particulate organic carbon in the Ganga-Brahmaputra river system. <i>Global Biogeochemical Cycles</i> , <b>2006</b> , 20, n/a-n/a	5.9	34

35	The 2.1 Ga old Francevillian biota: biogenicity, taphonomy and biodiversity. <i>PLoS ONE</i> , <b>2014</b> , 9, e99438	3.7	33
34	Origin of fecal contamination in waters from contrasted areas: stanols as Microbial Source Tracking markers. <i>Water Research</i> , <b>2012</b> , 46, 4009-16	12.5	32
33	Offshore Frontal Part of the Makran Accretionary Prism: The Chamak Survey (Pakistan). <i>Frontiers in Earth Sciences</i> , <b>2007</b> , 351-366	1.6	30
32	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. <i>Journal of Agricultural and Food Chemistry</i> , <b>2011</b> , 59, 7294-302	5.7	29
31	Physical, biogeochemical and isotopic processes related to heterogeneity of a shallow crystalline rock aquifer. <i>Biogeochemistry</i> , <b>2006</b> , 81, 331-347	3.8	26
30	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. <i>Chemical Geology</i> , <b>2013</b> , 362, 181-192	4.2	25
29	Soap- and metal-free polystyrene latex particles as a nanoplastic model. <i>Environmental Science: Nano</i> , <b>2019</b> , 6, 2253-2258	7.1	22
28	Constraints on the Sources and Production Mechanisms of Dissolved Organic Matter in Soils from Molecular Biomarkers. <i>Vadose Zone Journal</i> , <b>2014</b> , 13, vzt2014.02.0015	2.7	20
27	Highlighting the wide variability in arsenic speciation in wetlands: A new insight into the control of the behavior of arsenic. <i>Geochimica Et Cosmochimica Acta</i> , <b>2017</b> , 203, 284-302	5.5	15
26	Iron isotope fractionation in iron-organic matter associations: Experimental evidence using filtration and ultrafiltration. <i>Geochimica Et Cosmochimica Acta</i> , <b>2019</b> , 250, 98-116	5.5	15
25	Sources of dissolved organic matter during storm and inter-storm conditions in a lowland headwater catchment: constraints from high-frequency molecular data. <i>Biogeosciences</i> , <b>2015</b> , 12, 4333-4343	4.6	14
24	Development of a combined isotopic and mass-balance approach to determine dissolved organic carbon sources in eutrophic reservoirs. <i>Chemosphere</i> , <b>2011</b> , 83, 356-66	8.4	13
23	AgrHyS: An Observatory of Response Times in Agro-Hydro Systems. <i>Vadose Zone Journal</i> , <b>2018</b> , 17, 1800-66	6.6	13
22	Helium trapped in historical slags: a search for temporal variation of the He isotopic composition of air. <i>Earth and Planetary Science Letters</i> , <b>2001</b> , 194, 165-175	5.3	12
21	Nanoscale relationships between uranium and carbonaceous material in alteration halos around unconformity-related uranium deposits of the Kiggavik camp, Paleoproterozoic Thelon Basin, Nunavut, Canada. <i>Ore Geology Reviews</i> , <b>2016</b> , 79, 382-391	3.2	12
20	Experimental evidence of REE size fraction redistribution during redox variation in wetland soil. <i>Science of the Total Environment</i> , <b>2018</b> , 631-632, 580-588	10.2	11
19	Trace Fossils from the Brioverian (Ediacaran-Bortunian) in Brittany (NW France). <i>Ichnos</i> , <b>2018</b> , 25, 11-24	0.9	11
18	Unusual microbial mat-related structural diversity 2.1 billion years ago and implications for the Francevillian biota. <i>Geobiology</i> , <b>2018</b> , 16, 476-497	4.3	11

17	Impure marbles of the Lesser Himalaya: another source of continental radiogenic osmium. <i>Earth and Planetary Science Letters</i> , <b>2002</b> , 204, 203-214	5.3	11
16	Mineralogical sources of the buffer capacity in a granite catchment determined by strontium isotopes. <i>Applied Geochemistry</i> , <b>2008</b> , 23, 2888-2905	3.5	10
15	Iron speciation at the riverbank surface in wetland and potential impact on the mobility of trace metals. <i>Science of the Total Environment</i> , <b>2019</b> , 651, 443-455	10.2	10
14	Os isotopic compositions of leachates and bulk sediments from the Bengal Fan. <i>Earth and Planetary Science Letters</i> , <b>1997</b> , 150, 117-127	5.3	9
13	A comparative study on the pore-size and filter type effect on the molecular composition of soil and stream dissolved organic matter. <i>Organic Geochemistry</i> , <b>2017</b> , 110, 36-44	3.1	7
12	Sedimentology and U-Pb dating of Carboniferous to Permian continental series of the northern Massif Central (France): Local palaeogeographic evolution and larger scale correlations. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , <b>2019</b> , 533, 109228	2.9	7
11	Chemical Differentiation between Immersed and Dry Wood Samples in Nunavik (Northern Quebec, Canada): Preliminary Results. <i>Arctic, Antarctic, and Alpine Research</i> , <b>2016</b> , 48, 315-325	1.8	7
10	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. <i>Comptes Rendus - Geoscience</i> , <b>2016</b> , 348, 609-618	1.4	7
9	How does calcium drive the structural organization of iron-organic matter aggregates? A multiscale investigation. <i>Environmental Science: Nano</i> , <b>2020</b> , 7, 2833-2849	7.1	5
8	Re-Os Isotopic Characteristics of Himalayan River Sediments and Source Rocks. <i>Mineralogical Magazine</i> , <b>1998</b> , 62A, 1178-1179	1.7	4
7	Agricultural Practices and Hydrologic Conditions Shape the Temporal Pattern of Soil and Stream Water Dissolved Organic Matter. <i>Ecosystems</i> , <b>2020</b> , 23, 1325-1343	3.9	4
6	First evidence of Ediacaran-Bortunian elliptical body fossils in the Brioverian series of Brittany, NW France. <i>Lethaia</i> , <b>2018</b> , 51, 513-522	1.3	4
5	Rare earth elements as tracers of active colloidal organic matter composition. <i>Environmental Chemistry</i> , <b>2020</b> , 17, 133	3.2	3
4	More than redox, biological organic ligands control iron isotope fractionation in the riparian wetland. <i>Scientific Reports</i> , <b>2021</b> , 11, 1933	4.9	2
3	Sources and transfer mechanisms of dissolved organic matter during storm and inter-storm conditions in a lowland headwater catchment: constraints from high-frequency molecular data		1
2	Does ultrafiltration kinetics bias iron isotope compositions?. <i>Chemical Geology</i> , <b>2021</b> , 566, 120082	4.2	1
1	Monitoring the Organic Matter Quality Highlights the Ways in Which Organic Matter Is Removed from Wetland Soil. <i>Geosciences (Switzerland)</i> , <b>2021</b> , 11, 134	2.7	