

Anne-Catherine Pierson-Wickmann

List of Publications by Year in Descending Order

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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	Monitoring the Organic Matter Quality Highlights the Ways in Which Organic Matter Is Removed from Wetland Soil. <i>Geosciences (Switzerland)</i> , 2021 , 11, 134	2.7	
51	Does ultrafiltration kinetics bias iron isotope compositions?. <i>Chemical Geology</i> , 2021 , 566, 120082	4.2	1
50	More than redox, biological organic ligands control iron isotope fractionation in the riparian wetland. <i>Scientific Reports</i> , 2021 , 11, 1933	4.9	2
49	Rare earth elements as tracers of active colloidal organic matter composition. <i>Environmental Chemistry</i> , 2020 , 17, 133	3.2	3
48	Agricultural Practices and Hydrologic Conditions Shape the Temporal Pattern of Soil and Stream Water Dissolved Organic Matter. <i>Ecosystems</i> , 2020 , 23, 1325-1343	3.9	4
47	How does calcium drive the structural organization of iron-organic matter aggregates? A multiscale investigation. <i>Environmental Science: Nano</i> , 2020 , 7, 2833-2849	7.1	5
46	Soap- and metal-free polystyrene latex particles as a nanoplastic model. <i>Environmental Science: Nano</i> , 2019 , 6, 2253-2258	7.1	22
45	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> , 2019 , 533, 109228	2.9	7
44	Are nanoplastics able to bind significant amount of metals? The lead example. <i>Environmental Pollution</i> , 2019 , 249, 940-948	9.3	62
43	Iron isotope fractionation in iron-organic matter associations: Experimental evidence using filtration and ultrafiltration. <i>Geochimica Et Cosmochimica Acta</i> , 2019 , 250, 98-116	5.5	15
42	Trace metals in polyethylene debris from the North Atlantic subtropical gyre. <i>Environmental Pollution</i> , 2019 , 245, 371-379	9.3	77
41	Iron speciation at the riverbank surface in wetland and potential impact on the mobility of trace metals. <i>Science of the Total Environment</i> , 2019 , 651, 443-455	10.2	10
40	Unexpected spatial stability of water chemistry in headwater stream networks. <i>Ecology Letters</i> , 2018 , 21, 296-308	10	105
39	Experimental evidence of REE size fraction redistribution during redox variation in wetland soil. <i>Science of the Total Environment</i> , 2018 , 631-632, 580-588	10.2	11
38	Trace Fossils from the Brioverian (Ediacaran-Ordovician) in Brittany (NW France). <i>Ichnos</i> , 2018 , 25, 11-24	0.9	11
37	Unusual microbial mat-related structural diversity 2.1 billion years ago and implications for the Francevillian biota. <i>Geobiology</i> , 2018 , 16, 476-497	4.3	11
36	AgrHyS: An Observatory of Response Times in Agro-Hydro Systems. <i>Vadose Zone Journal</i> , 2018 , 17, 180066	6.6	13

35	First evidence of Ediacaran Fortunian elliptical body fossils in the Brioverian series of Brittany, NW France. <i>Lethaia</i> , 2018 , 51, 513-522	1.3	4
34	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> , 2017 , 203, 284-302	5.5	15
33	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> , 2017 , 110, 36-44	3.1	7
32	Chemical Differentiation between Immersed and Dry Wood Samples in Nunavik (Northern Quebec, Canada): Preliminary Results. <i>Arctic, Antarctic, and Alpine Research</i> , 2016 , 48, 315-325	1.8	7
31	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> , 2016 , 348, 609-618	1.4	7
30	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> , 2016 , 79, 382-391	3.2	12
29	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> , 2015 , 12, 4333-4343	4.6	14
28	Constraints on the Sources and Production Mechanisms of Dissolved Organic Matter in Soils from Molecular Biomarkers. <i>Vadose Zone Journal</i> , 2014 , 13, vjz2014.02.0015	2.7	20
27	The 2.1 Ga old Francevillian biota: biogenicity, taphonomy and biodiversity. <i>PLoS ONE</i> , 2014 , 9, e99438	3.7	33
26	DOC sources and DOC transport pathways in a small headwater catchment as revealed by carbon isotope fluctuation during storm events. <i>Biogeosciences</i> , 2014 , 11, 3043-3056	4.6	40
25	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> , 2013 , 110, 16736-41	11.5	92
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. <i>Chemical Geology</i> , 2013 , 362, 181-192	4.2	25
23	Hydrologically driven seasonal changes in the sources and production mechanisms of dissolved organic carbon in a small lowland catchment. <i>Water Resources Research</i> , 2013 , 49, 5792-5803	5.4	50
22	Long-term effects of high nitrogen loads on cation and carbon riverine export in agricultural catchments. <i>Environmental Science & Technology</i> , 2012 , 46, 9447-55	10.3	41
21	Origin of fecal contamination in waters from contrasted areas: stanols as Microbial Source Tracking markers. <i>Water Research</i> , 2012 , 46, 4009-16	12.5	32
20	Carbon isotopes as tracers of dissolved organic carbon sources and water pathways in headwater catchments. <i>Journal of Hydrology</i> , 2011 , 402, 228-238	6	51
19	Development of a combined isotopic and mass-balance approach to determine dissolved organic carbon sources in eutrophic reservoirs. <i>Chemosphere</i> , 2011 , 83, 356-66	8.4	13
18	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> , 2011 , 59, 7294-302	5.7	29

17	Large colonial organisms with coordinated growth in oxygenated environments 2.1 Gyr ago. <i>Nature</i> , 2010 , 466, 100-4	50.4	175
16	High chemical weathering rates in first-order granitic catchments induced by agricultural stress. <i>Chemical Geology</i> , 2009 , 265, 369-380	4.2	36
15	Acidification processes and soil leaching influenced by agricultural practices revealed by strontium isotopic ratios. <i>Geochimica Et Cosmochimica Acta</i> , 2009 , 73, 4688-4704	5.5	43
14	Mineralogical sources of the buffer capacity in a granite catchment determined by strontium isotopes. <i>Applied Geochemistry</i> , 2008 , 23, 2888-2905	3.5	10
13	Compartmentalization of physical and chemical properties in hard-rock aquifers deduced from chemical and groundwater age analyses. <i>Applied Geochemistry</i> , 2008 , 23, 2686-2707	3.5	84
12	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> , 2007 , 263, 246-258	5.3	36
11	Offshore Frontal Part of the Makran Accretionary Prism: The Chamak Survey (Pakistan). <i>Frontiers in Earth Sciences</i> , 2007 , 351-366	1.6	30
10	Fluxes and sources of particulate organic carbon in the Ganga-Brahmaputra river system. <i>Global Biogeochemical Cycles</i> , 2006 , 20, n/a-n/a	5.9	34
9	Physical, biogeochemical and isotopic processes related to heterogeneity of a shallow crystalline rock aquifer. <i>Biogeochemistry</i> , 2006 , 81, 331-347	3.8	26
8	Behavior of Re and Os during low-temperature alteration: Results from Himalayan soils and altered black shales. <i>Geochimica Et Cosmochimica Acta</i> , 2002 , 66, 1539-1548	5.5	52
7	Impure marbles of the Lesser Himalaya: another source of continental radiogenic osmium. <i>Earth and Planetary Science Letters</i> , 2002 , 204, 203-214	5.3	11
6	Os-Sr-Nd results from sediments in the Bay of Bengal: Implications for sediment transport and the marine Os record. <i>Paleoceanography</i> , 2001 , 16, 435-444		44
5	Helium trapped in historical slags: a search for temporal variation of the He isotopic composition of air. <i>Earth and Planetary Science Letters</i> , 2001 , 194, 165-175	5.3	12
4	The Os isotopic composition of Himalayan river bedloads and bedrocks: importance of black shales. <i>Earth and Planetary Science Letters</i> , 2000 , 176, 203-218	5.3	53
3	Re-Os Isotopic Characteristics of Himalayan River Sediments and Source Rocks. <i>Mineralogical Magazine</i> , 1998 , 62A, 1178-1179	1.7	4
2	Os isotopic compositions of leachates and bulk sediments from the Bengal Fan. <i>Earth and Planetary Science Letters</i> , 1997 , 150, 117-127	5.3	9
1	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