## Anne Probst

List of Publications by Year in descending order

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76326 76900 5,987 125 40 74 citations h-index g-index papers 131 131 131 6627 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	Metal contamination of soils and crops affected by the Chenzhou lead/zinc mine spill (Hunan, China). Science of the Total Environment, 2005, 339, 153-166.	8.0	560
2	Heavy metal distribution in some French forest soils: evidence for atmospheric contamination. Science of the Total Environment, 2003, 312, 195-219.	8.0	432
3	REE fractionation during granite weathering and removal by waters and suspended loads: Sr and Nd isotopic evidence. Geochimica Et Cosmochimica Acta, 2001, 65, 387-406.	3.9	345
4	Impact of nitrogenous fertilizers on carbonate dissolution in small agricultural catchments: Implications for weathering CO2 uptake at regional and global scales. Geochimica Et Cosmochimica Acta, 2008, 72, 3105-3123.	3.9	198
5	Hydrograph separation using isotopic, chemical and hydrological approaches (Strengbach catchment,) Tj ETQq1 I	1 9.78431	.4 rggT /Over
6	Early stage litter decomposition across biomes. Science of the Total Environment, 2018, 628-629, 1369-1394.	8.0	177
7	Trace elements in stream bed sediments from agricultural catchments (Gascogne region, S-W France): Where do they come from?. Science of the Total Environment, 2009, 407, 2939-2952.	8.0	170
8	Modelling weathering processes at the catchment scale: The WITCH numerical model. Geochimica Et Cosmochimica Acta, $2006$ , $70$ , $1128$ - $1147$ .	3.9	169
9	Strontium as a tracer of weathering processes in a silicate catchment polluted by acid atmospheric inputs, Strengbach, France. Chemical Geology, 2000, 170, 203-219.	3.3	139
10	$\hat{l}'$ pattern of dissolved inorganic carbon in a small granitic catchment: the Strengbach case study (Vosges mountains, France). Chemical Geology, 1999, 159, 129-145.	3.3	137
11	Applications of stable water and carbon isotopes in watershed research: Weathering, carbon cycling, and water balances. Earth-Science Reviews, 2011, 109, 20-31.	9.1	136
12	OZCAR: The French Network of Critical Zone Observatories. Vadose Zone Journal, 2018, 17, 1-24.	2.2	126
13	Influence of acid atmospheric inputs on surface water chemistry and mineral fluxes in a declining spruce stand within a small granitic catchment (Vosges Massif, France). Journal of Hydrology, 1990, 116, 101-124.	5.4	120
14	Characterization and migration of atmospheric REE in soils and surface waters. Geochimica Et Cosmochimica Acta, 2002, 66, 3339-3350.	3.9	118
15	An Overview of Atmospheric Deposition Chemistry over the Alps: Present Status and Long-term Trends. Hydrobiologia, 2006, 562, 17-40.	2.0	114
16	Distribution and origin of major and trace elements (particularly REE, U and Th) into labile and residual phases in an acid soil profile (Vosges Mountains, France). Applied Geochemistry, 2004, 19, 899-916.	3.0	97
17	Hydrochemical budgets of a small forested granitic catchment exposed to acid deposition: The strengbach catchment case study (Vosges massif, France). Water, Air, and Soil Pollution, 1992, 62, 337-347.	2.4	94
18	Response of Vicia faba L. to metal toxicity on mine tailing substrate: Geochemical and morphological changes in leaf and root. Environmental and Experimental Botany, 2009, 66, 297-308.	4.2	93

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19	Contamination of surface waters by mining wastes in the Milluni Valley (Cordillera Real, Bolivia): Mineralogical and hydrological influences. Applied Geochemistry, 2008, 23, 1299-1324.	3.0	92
20	Evidence of hydrological control of Sr behavior in stream water (Strengbach catchment, Vosges) Tj ETQq0 0 0 r	gBT/Qverl	ock 10 Tf 50 7
21	Understanding nitrogen transfer dynamics in a small agricultural catchment: Comparison of a distributed (TNT2) and a semi distributed (SWAT) modeling approaches. Journal of Hydrology, 2011, 406, 1-15.	5.4	80
22	Impact of nitrogenous fertiliser-induced proton release on cultivated soils with contrasting carbonate contents: A column experiment. Geochimica Et Cosmochimica Acta, 2011, 75, 1185-1198.	3.9	71
23	Interception in a mountainous declining spruce stand in the Strengbach catchment (Vosges, France). Journal of Hydrology, 1993, 144, 273-282.	5 <b>.</b> 4	68
24	Canopy influence on trace metal atmospheric inputs on forest ecosystems: Speciation in throughfall. Atmospheric Environment, 2010, 44, 824-833.	4.1	67
25	Influence of anthropogenic inputs and a high-magnitude flood event on metal contamination pattern in surface bottom sediments from the Deba River urban catchment. Science of the Total Environment, 2015, 514, 10-25.	8.0	62
26	Long-Term Field Metal Extraction by <i>Pelargonium:</i> Phytoextraction Efficiency in Relation to Plant Maturity. International Journal of Phytoremediation, 2012, 14, 493-505.	3.1	60
27	Origin and distribution of rare earth elements in various lichen and moss species over the last century in France. Science of the Total Environment, 2014, 487, 1-12.	8.0	59
28	Modelling trace metal extractability and solubility in French forest soils by using soil properties. European Journal of Soil Science, 2010, 61, 271-286.	3.9	58
29	Origin and fate of copper in a small Mediterranean vineyard catchment: New insights from combined chemical extraction and Î65Cu isotopic composition. Science of the Total Environment, 2013, 463-464, 91-101.	8.0	57
30	Toxicity of Pb and of Pb/Cd combination on the springtail Folsomia candida in natural soils: Reproduction, growth and bioaccumulation as indicators. Science of the Total Environment, 2012, 414, 187-197.	8.0	56
31	Significance of floods in metal dynamics and export in a small agricultural catchment. Journal of Hydrology, 2013, 499, 71-81.	5.4	48
32	Flood event impact on pesticide transfer in a small agricultural catchment (Montoussé at Auradé,) Tj ETQq	0 0 <u>9 </u>	/Overlock 10
33	Distribution and origin of lead in stream sediments from small agricultural catchments draining Miocene molassic deposits (SW France). Applied Geochemistry, 2009, 24, 1324-1338.	3.0	46
34	Determining cadmium critical concentrations in natural soils by assessing Collembola mortality, reproduction and growth. Ecotoxicology and Environmental Safety, 2010, 73, 415-422.	6.0	46
35	Chemical weathering and consumption of atmospheric carbon dioxide in the Alpine region. Global and Planetary Change, 2016, 136, 65-81.	3 <b>.</b> 5	46
36	Comparing early twentieth century and present-day atmospheric pollution in SW France: A story of lichens. Environmental Pollution, 2013, 172, 139-148.	7.5	44

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37	Investigation of spatial and temporal metal atmospheric deposition in France through lichen and moss bioaccumulation over one century. Science of the Total Environment, 2015, 529, 285-296.	8.0	44
38	Continuous measurement of nitrate concentration in a highly eventâ€responsive agricultural catchment in southâ€west of France: is the gain of information useful?. Hydrological Processes, 2013, 27, 1751-1763.	2.6	43
39	Mid-term trends in acid precipitation, streamwater chemistry and element budgets in the strengbach catchment (Vosges Mountains, France). Water, Air, and Soil Pollution, 1995, 79, 39-59.	2.4	41
40	Title is missing!. Water, Air, and Soil Pollution, 1998, 105, 43-52.	2.4	41
41	Complex toxic effects of Cd2+, Zn2+, and acid rain on growth of kidney bean (Phaseolus vulgaris L). Environment International, 2005, 31, 891-895.	10.0	40
42	Trace elements and Pb isotopes in soils and sediments impacted by uranium mining. Science of the Total Environment, 2016, 566-567, 238-249.	8.0	39
43	Contrasted spatial and long-term trends in precipitation chemistry and deposition fluxes at rural stations in France. Atmospheric Environment, 2016, 146, 28-43.	4.1	38
44	SNO KARST: A French Network of Observatories for the Multidisciplinary Study of Critical Zone Processes in Karst Watersheds and Aquifers. Vadose Zone Journal, 2018, 17, 1-18.	2.2	37
45	Soil heavy metal contamination and acid deposition: experimental approach on two forest soils in Hunan, Southern China. Geoderma, 2005, 127, 91-103.	5.1	36
46	Use of geochemical signatures, including rare earth elements, in mosses and lichens to assess spatial integration and the influence of forest environment. Atmospheric Environment, 2014, 95, 96-104.	4.1	36
47	Influence of acid rain on CO2 consumption by rock weathering: Local and global scales. Water, Air, and Soil Pollution, 1995, 85, 1563-1568.	2.4	35
48	The importance of biomass net uptake for a trace metal budget in a forest stand in north-eastern France. Science of the Total Environment, 2010, 408, 5870-5877.	8.0	33
49	Stable carbon isotope evidence for nitrogenous fertilizer impact on carbonate weathering in a small agricultural watershed. Rapid Communications in Mass Spectrometry, 2011, 25, 2682-2690.	1.5	33
50	Global warming and acid atmospheric deposition impacts on carbonate dissolution and CO2 fluxes in French karst hydrosystems: Evidence from hydrochemical monitoring in recent decades. Geochimica Et Cosmochimica Acta, 2020, 270, 184-200.	3.9	33
51	Combined effect of atmospheric nitrogen deposition and climate change on temperate forest soil biogeochemistry: A modeling approach. Ecological Modelling, 2015, 306, 24-34.	2.5	32
52	The Strengbach Catchment: A Multidisciplinary Environmental Sentry for 30 Years. Vadose Zone Journal, 2018, 17, 1-17.	2.2	32
53	Title is missing!. Water, Air, and Soil Pollution, 1999, 114, 395-411.	2.4	31
54	Intermittent rivers and ephemeral streams: Perspectives for critical zone science and research on socioâ€ecosystems. Wiley Interdisciplinary Reviews: Water, 2021, 8, e1523.	6.5	31

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55	Localisation and mobility of trace metal in silver fir needles. Chemosphere, 2012, 87, 204-210.	8.2	30
56	Evaluation of lichen species resistance to atmospheric metal pollution by coupling diversity and bioaccumulation approaches: A new bioindication scale for French forested areas. Ecological Indicators, 2017, 72, 99-110.	6.3	29
57	High-frequency monitoring of surface water quality at the outlet of the Ibrahim River (Lebanon): A multivariate assessment. Ecological Indicators, 2019, 104, 13-23.	6.3	29
58	Bioturbation effects on bioaccumulation of cadmium in the wetland plant Typha latifolia: A nature-based experiment. Science of the Total Environment, 2018, 618, 1284-1297.	8.0	28
59	Modelling trace metal background to evaluate anthropogenic contamination in arable soils of south-western France. Geoderma, 2013, 206, 112-122.	5.1	27
60	Atmospheric and terrigenous metal accumulation over 3000 years in a French mountain catchment: Local vs distal influences. Anthropocene, 2017, 19, 45-54.	3.3	26
61	Anthropogenic contribution and influencing factors on metal features in fluvial sediments from a semi-arid Mediterranean river basin (Tafna River, Algeria): A multi-indices approach. Science of the Total Environment, 2018, 626, 899-914.	8.0	25
62	Origin, distribution, and behaviour of rare earth elements in river bed sediments from a carbonate semi-arid basin (Tafna River, Algeria). Applied Geochemistry, 2019, 106, 96-111.	3.0	24
63	Twenty-five year record of chemicals in open field precipitation and throughfall from a medium-altitude forest catchment (Strengbach - NE France): An obvious response to atmospheric pollution trends. Atmospheric Environment, 2019, 202, 296-314.	4.1	24
64	Critical loads of acidity to surface waters in the Vosges massif (north-east of France). Water, Air, and Soil Pollution, 1995, 85, 2407-2412.	2.4	21
65	Modelling the impact of climate change and atmospheric N deposition on French forests biodiversity. Environmental Pollution, 2016, 213, 1016-1027.	7.5	21
66	Interactions between cadmium and lead with acidic soils: Experimental evidence of similar adsorption patterns for a wide range of metal concentrations and the implications of metal migration. Journal of Hazardous Materials, 2012, 199-200, 358-366.	12.4	20
67	The Role of Ponds in Pesticide Dissipation at the Agricultural Catchment Scale: A Critical Review. Water (Switzerland), 2021, 13, 1202.	2.7	20
68	Modelling trace metal transfer in large rivers under dynamic hydrology: A coupled hydrodynamic and chemical equilibrium model. Environmental Modelling and Software, 2017, 89, 77-96.	<b>4.</b> 5	19
69	Assessment of the effects of best environmental practices on reducing pesticide contamination in surface water, using multi-criteria modelling combined with a GIS. International Journal of Multicriteria Decision Making, 2013, 3, 178.	0.2	18
70	Heavy metals partioning in three French forest soils by sequential extraction procedure. European Physical Journal Special Topics, 2003, 107, 1103-1106.	0.2	18
71	Why comparison between different chemical extraction procedures is necessary to better assess the metals availability in sediments. Journal of Geochemical Exploration, 2021, 225, 106762.	3.2	17
72	Natural organic matter contribution to throughfall acidity in French forests. Environment International, 1998, 24, 547-558.	10.0	16

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73	Flood survey of nitrate behaviour using nitrogen isotope tracing in the critical zone of a French agricultural catchment. Comptes Rendus - Geoscience, 2015, 347, 328-337.	1.2	16
74	Extracting Soil Water Holding Capacity Parameters of a Distributed Agro-Hydrological Model from High Resolution Optical Satellite Observations Series. Remote Sensing, 2016, 8, 154.	4.0	16
75	Modelling of trace metal transfer in a large river under different hydrological conditions (the) Tj ETQq1 1 0.78431	4.rgBT /O	verlock 10 Ti
76	A Forty-Year Karstic Critical Zone Survey (Baget Catchment, Pyrenees-France): Lithologic and Hydroclimatic Controls on Seasonal and Inter-Annual Variations of Stream Water Chemical Composition, pCO2, and Carbonate Equilibrium. Water (Switzerland), 2020, 12, 1227.	2.7	15
77	Weathering, atmospheric deposition and vegetation uptake: role for ecosystem sensitivity to acid deposition and critical load. Comptes Rendus - Geoscience, 2004, 336, 1417-1426.	1.2	14
78	Geochemical composition of fluvial sediments in the Milo River basin (Guinea): is there any impact of artisanal mining and of a big African city, Kankan?. Journal of African Earth Sciences, 2018, 145, 102-114.	2.0	14
79	Comparative Hydrochemical Behaviour and Element Budgets of the Aubure (Vosges Massif) and Mont-Lozère (Southern Massif Central) Norway Spruce Forested Catchments. , 1995, , 203-225.		14
80	A spatial study of the relationships between streamwater acidity and geology, soils and relief (Vosges,) Tj ETQq0	0 <u>Q r</u> gBT /	Overlock 10
81	Effects of Acid Rain on Competitive Releases of Cd, Cu, and Zn from Two Natural Soils and Two Contaminated Soils in Hunan, China. Water, Air and Soil Pollution, 2007, 7, 151-161.	0.8	13
82	Reduction of stream nitrate concentrations by land management in contrasted landscapes. Nutrient Cycling in Agroecosystems, 2019, 114, 1-17.	2.2	13
83	Dynamics of the seagrass Zostera noltei in a shallow Mediterranean lagoon exposed to chemical contamination and other stressors. Estuarine, Coastal and Shelf Science, 2019, 222, 1-12.	2.1	13
84	Long and short-term trends of stream hydrochemistry and high frequency surveys as indicators of the influence of climate change, agricultural practices and internal processes (Aurade agricultural) Tj ETQq0 0 0 rg	gBa.;\$Over	loals 10 Tf 50
85	Influence of ponds on hazardous metal distribution in sediments at a catchment scale (agricultural) Tj ETQq $1\ 1\ 0$	.784314 r 12.4	gBT /Overloc
86	Combined Toxic Effects of Cadmium and Acid Rain on Vicia faba L Bulletin of Environmental Contamination and Toxicology, 2003, 71, 998-1004.	2.7	12
87	The impact of vegetation on fractionation of rare earth elements (REE) during water–rock interaction. Journal of Geochemical Exploration, 2006, 88, 341-344.	3.2	12
88	Dissolved organic matter contribution to rain water, throughfall and soil solution chemistry. Analusis - European Journal of Analytical Chemistry, 1999, 27, 409-413.	0.4	12
89	Chemical weathering and CO2 consumption in a multi-lithological karstic critical zone: Long term hydrochemical trends and isotopic survey. Chemical Geology, 2021, 585, 120567.	3.3	12
90	Lead content and isotopic composition in submound and recent soils of the Volga Upland. Eurasian Soil Science, 2013, 46, 1059-1075.	1.6	11

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91	Evaluation of streamwater composition changes in the Vosges Mountains (NE France): 1955–2005. Science of the Total Environment, 2009, 407, 4378-4386.	8.0	10
92	Building a shared vision of the future for multifunctional agricultural landscapes. Lessons from a long term socio-ecological research site in south-western France. Advances in Ecological Research, 2021, , 57-106.	2.7	10
93	Role of Pond Sediments for Trapping Pesticides in an Agricultural Catchment (Auradé, SW France): Distribution and Controlling Factors. Water (Switzerland), 2021, 13, 1734.	2.7	9
94	Surface Water Acidification in the Vosges Mountains: Relation to Bedrock and Vegetation Cover., 1995,, 371-386.		9
95	Modeling Acidification Recovery on Threatened Ecosystems: Application to the Evaluation of the Gothenburg Protocol in France. Water, Air and Soil Pollution, 2007, 7, 307-316.	0.8	8
96	Retention of nutrients, suspended particulate matter and phytoplankton in a pondage associated with a runâ€ofâ€theâ€river type hydroelectric power plant. Ecohydrology, 2016, 9, 229-237.	2.4	8
97	Spatial Variability and Long-Term Trends in Mass Balance of N and S in Central European Forested Catchments. Ecological Studies, 2000, , 405-418.	1.2	8
98	Multi-Indices Assessment of Origin and Controlling Factors of Trace Metals in River Sediments from a Semi-Arid Carbonated Basin (the Sebou Basin, Morocco). Water (Switzerland), 2021, 13, 3203.	2.7	8
99	Do pesticides degrade in surface water receiving runoff from agricultural catchments? Combining passive samplers (POCIS) and compound-specific isotope analysis. Science of the Total Environment, 2022, 842, 156735.	8.0	8
100	Spatial variation of denitrification and key controlling factors in streams and ponds sediments from a critical zone (southwestern France). Applied Geochemistry, 2021, 131, 105009.	3.0	7
101	Stream Hydrochemical Response to Flood Events in a Multi-Lithological Karstic Catchment from the Pyrenees Mountains (SW France). Water (Switzerland), 2021, 13, 1818.	2.7	6
102	Influence of Various Stresses on Ca and Mg Nutrition of a Spruce Stand Developed on Acidic Soil, 1992, , 465-472.		6
103	Heavy metals in some French forest soils: Distribution, origin and controlling factors. European Physical Journal Special Topics, 2003, 107, 1107-1110.	0.2	6
104	The vegetation map of the CNRS going numerical: the geographical database of the vegetation of France. Harmonised vector cover at $1/1\hat{A}000\hat{A}000$ and georeferenced scan at $1/200\hat{A}000$ . CyberGeo, 0, , .	0.0	5
105	Critical loads for lead in France: First results on forest soils. European Physical Journal Special Topics, 2003, 107, 1111-1114.	0.2	4
106	Large scale atmospheric contribution of trace elements registered in foliose lichens in remote French areas. E3S Web of Conferences, 2013, 1, 29001.	0.5	3
107	Buried Paleosols as Reference Objects for Assessing the Current Level of Soil Pollution with Lead in the Lower Volga Steppes. Eurasian Soil Science, 2019, 52, 34-49.	1.6	3
108	Le Bassin Versant du Strengbach a Aubure (Haut-Rhin, Frances) Pour L'etude du Deperissement Forestier Dans les Vosges (Programme Deforpa) II- Influence des Precipitations Acides sur la Chimie des Eaux de Surface. , 1988, , 829-834.		3

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109	Potential influence of landscape transition on stream water chemistry trends during the last decades in a karst catchment (Pyrenees, SW France) in a context of global environmental changes. Ecological Indicators, 2022, 140, 109023.	6.3	3
110	Disturbance and resilience of a granitic critical zone submitted to acid atmospheric influence (the) Tj ETQq0 0 0 nineties. Journal of Hydrology, 2019, 569, 77-92.	rgBT /Ove 5.4	erlock 10 Tf 50 2
111	Evidence of Current Soil Acidification in Spruce Stands in the Vosges Mountains, North-Eastern France., 1998,, 43-52.		2
112	Remobilisation of Zn and Pb in a mountain stream contaminated by mining wastes during a moderate flood event (Ariège, France). European Physical Journal Special Topics, 2003, 107, 233-236.	0.2	2
113	Interactive effects of metals and carbon nanotubes in a microcosm agrosystem. Journal of Hazardous Materials, 2022, 431, 128613.	12.4	2
114	Effects of Acid Rain on Competitive Releases of Cd, Cu, and Zn from Two Natural Soils and Two Contaminated Soils in Hunan, China. , 2007, , 151-161.		1
115	Investigation of climate change and history of lead deposition using soil archives. Mineralogical Magazine, 2008, 72, 341-343.	1.4	1
116	Modeling Acidification Recovery on Threatened Ecosystems: Application to the Evaluation of the Gothenburg Protocol in France., 2007,, 307-316.		1
117	Mid-Term Trends in Acid Precipitation, Streamwater Chemistry and Element Budgets in the Strengbach Catchment (Vosges Mountains, France)., 1995,, 39-59.		1
118	Acidification des eaux de surface et charges critiques d'acidité: le cas du massif des ardennes françaises. Comptes Rendus De L'Académie Des Sciences Earth & Planetary Sciences Série II, Sciences De La Terre Et Des PlanÃ'tes =, 1999, 328, 29-35.	0.2	0
119	Determination of organic and mineral acidity contributions to the total throughfall acidity: application to French forests. Comptes Rendus De L'Académie Des Sciences Earth & Planetary Sciences Série II, Sciences De La Terre Et Des Planà tes =, 1999, 328, 333-339.	0.2	0
120	Comparison of Levels and Sources of Lead in Modern and Ancient Soils in Low Volga Steppes. E3S Web of Conferences, 2013, 1, 08002.	0.5	0
121	ParamÃ'tres influenÃ $\$$ ant la distribution des Ã $\$$ 0 $\$$ 0 $\$$ 0ments traces mÃ $\$$ 0talliques dans les affluents du fleuve Garonne (France). International Journal of Biological and Chemical Sciences, 2017, 11, 1363.	0.2	0
122	Critical Loads of Acidity to Surface Waters in the Vosges Massif (North-East of France). , 1995, , 2407-2412.		0
123	What Can Be Learned about the Relationships between Water Discharge and Composition during Flood Events in a Forested Karstic Catchment from the Pyrenees Mountains (Southwestern France)?., 2020, 7,.		0
124	Contamination Intensity and Origin of Trace Metals in the Bottom Sediments from the Sebou Basin (NW Morocco). , 2020, 7, .		0
125	Modelling daily Dissolved Oxygen Dynamics in the Sebou River (Morocco): Data-Centric Approaches. , 2022, , .		0