

# Nicole Baran

## List of Publications by Year in descending order

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Version: 2024-02-01

45  
papers

2,771  
citations

257357

24  
h-index

243529

44  
g-index

45  
all docs

45  
docs citations

45  
times ranked

3804  
citing authors

#	ARTICLE	IF	CITATIONS
1	Emerging organic contaminants in groundwater: A review of sources, fate and occurrence. <i>Environmental Pollution</i> , 2012, 163, 287-303.	3.7	1,382
2	Screening of French groundwater for regulated and emerging contaminants. <i>Science of the Total Environment</i> , 2015, 518-519, 562-573.	3.9	136
3	Determination of chloroacetanilides, triazines and phenylureas and some of their metabolites in soils by pressurised liquid extraction, GC-MS/MS, LC-MS and LC-MS/MS. <i>Journal of Chromatography A</i> , 2005, 1067, 225-233.	1.8	82
4	Persistent and emerging micro-organic contaminants in Chalk groundwater of England and France. <i>Environmental Pollution</i> , 2015, 203, 214-225.	3.7	80
5	Glyphosate and AMPA adsorption in soils: laboratory experiments and pedotransfer rules. <i>Environmental Science and Pollution Research</i> , 2016, 23, 5733-5742.	2.7	70
6	Pesticides in the groundwater of a spring draining a sandy aquifer: Temporal variability of concentrations and fluxes. <i>Journal of Contaminant Hydrology</i> , 2006, 87, 176-190.	1.6	64
7	Agricultural diffuse pollution in a chalk aquifer (Trois Fontaines, France): Influence of pesticide properties and hydrodynamic constraints. <i>Journal of Hydrology</i> , 2008, 358, 56-69.	2.3	56
8	Improving the knowledge of pesticide and nitrate transfer processes using age-dating tools (CFC, SF <sub>6</sub> ). <i>Journal of Hydrology</i> , 2008, 358, 107-117.	1.6	49
9	Hydrodynamic and geochemical constraints on pesticide concentrations in the groundwater of an agricultural catchment (Brâ©villes, France). <i>Environmental Pollution</i> , 2007, 148, 729-738.	3.7	48
10	Interaction between different water bodies in a small catchment in the Paris basin (Brâ©villes, France): Tracing of multiple Sr sources through Sr isotopes coupled with Mg/Sr and Ca/Sr ratios. <i>Applied Geochemistry</i> , 2008, 23, 58-75.	1.4	45
11	Sorption and mineralization of S-metolachlor and its ionic metabolites in soils and vadose zone solids: Consequences on groundwater quality in an alluvial aquifer (Ain Plain, France). <i>Journal of Contaminant Hydrology</i> , 2013, 154, 20-28.	1.6	45
12	Determination of oxanilic and sulfonic acid metabolites of acetochlor in soils by liquid chromatography-electrospray ionisation mass spectrometry. <i>Journal of Chromatography A</i> , 2002, 957, 69-77.	1.8	44
13	Field data and modelling of water and nitrate movement through deep unsaturated loess. <i>Journal of Hydrology</i> , 2007, 345, 27-37.	2.3	42
14	Long-term transfer of diffuse pollution at catchment scale: Respective roles of soil, and the unsaturated and saturated zones (Brâ©villes, France). <i>Journal of Hydrology</i> , 2009, 369, 381-391.	2.3	41
15	Effect of pesticides and metabolites on groundwater bacterial community. <i>Science of the Total Environment</i> , 2017, 576, 879-887.	3.9	37
16	Controls on atrazine leaching through a soil-unsaturated fractured limestone sequence at Brâ©villes, France. <i>Journal of Contaminant Hydrology</i> , 2006, 84, 81-105.	1.6	35
17	Mobility, turnover and storage of pollutants in soils, sediments and waters: achievements and results of the EU project AquaTerra. A review. <i>Agronomy for Sustainable Development</i> , 2009, 29, 161-173.	2.2	34
18	Acetochlor mineralization and fate of its two major metabolites in two soils under laboratory conditions. <i>Chemosphere</i> , 2008, 71, 663-670.	4.2	33

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19	Advantages of online SPE coupled with UPLC/MS/MS for determining the fate of pesticides and pharmaceutical compounds. <i>Analytical and Bioanalytical Chemistry</i> , 2014, 406, 1181-1191.	1.9	29
20	Individual and joint toxicity of the herbicide S-metolachlor and a metabolite, deethylatrazine on aquatic crustaceans: Difference between ecological groups. <i>Chemosphere</i> , 2016, 165, 118-125.	4.2	29
21	Simulation of water and solute transport in field soils with the LEACHP model. <i>Agricultural Water Management</i> , 2000, 44, 225-245.	2.4	27
22	Carbon isotope ratio measurements of glyphosate and AMPA by liquid chromatography coupled to isotope ratio mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2013, 405, 2869-2878.	1.9	26
23	Analytical developments for 47 pesticides: first identification of neutral chloroacetanilide derivatives in French groundwater. <i>International Journal of Environmental Analytical Chemistry</i> , 2013, 93, 1660-1675.	1.8	26
24	Conducting groundwater monitoring studies in Europe for pesticide active substances and their metabolites in the context of Regulation (EC) 1107/2009. <i>Journal Fur Verbraucherschutz Und Lebensmittelsicherheit</i> , 2019, 14, 1-93.	0.5	26
25	Infiltration of Acetochlor and Two of Its Metabolites in Two Contrasting Soils. <i>Journal of Environmental Quality</i> , 2004, 33, 241-249.	1.0	24
26	Side Effects of Pesticides and Metabolites in Groundwater: Impact on Denitrification. <i>Frontiers in Microbiology</i> , 2021, 12, 662727.	1.5	23
27	Pesticides in groundwater at a national scale (France): Impact of regulations, molecular properties, uses, hydrogeology and climatic conditions. <i>Science of the Total Environment</i> , 2021, 791, 148137.	3.9	23
28	An innovative procedure to assess multi-scale temporal trends in groundwater quality: Example of the nitrate in the Seine-Normandy basin, France. <i>Journal of Hydrology</i> , 2015, 522, 1-10.	2.3	22
29	Triple-Element Compound-Specific Stable Isotope Analysis (3D-CSIA): Added Value of Cl Isotope Ratios to Assess Herbicide Degradation. <i>Environmental Science &amp; Technology</i> , 2021, 55, 13891-13901.	4.6	20
30	Pesticides and their metabolites in European groundwater: Comparing regulations and approaches to monitoring in France, Denmark, England and Switzerland. <i>Science of the Total Environment</i> , 2022, 842, 156696.	3.9	20
31	Ecology-based evaluation of groundwater ecosystems under intensive agriculture: A combination of community analysis and sentinel exposure. <i>Science of the Total Environment</i> , 2018, 613-614, 1353-1366.	3.9	19
32	Experimental and modeling of the unsaturated transports of S-metolachlor and its metabolites in glaciofluvial vadose zone solids. <i>Journal of Contaminant Hydrology</i> , 2016, 190, 1-14.	1.6	18
33	Characterisation of suspended particulate matter in the Rhone River: insights into analogue selection. <i>Environmental Chemistry</i> , 2016, 13, 804.	0.7	17
34	Insights into natural organic matter and pesticide characterisation and distribution in the Rhone River. <i>Environmental Chemistry</i> , 2017, 14, 64.	0.7	16
35	Is pesticide sorption by constructed wetland sediments governed by water level and water dynamics?. <i>Environmental Science and Pollution Research</i> , 2018, 25, 14324-14335.	2.7	15
36	Wetland hydrodynamics and mitigation of pesticides and their metabolites at pilot-scale. <i>Ecological Engineering</i> , 2019, 136, 185-192.	1.6	15

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37	Investigations into titanium dioxide nanoparticle and pesticide interactions in aqueous environments. <i>Environmental Science: Nano</i> , 2017, 4, 2055-2065.	2.2	12
38	Influence of hydrodynamics on the water pathway and spatial distribution of pesticide and metabolite concentrations in constructed wetlands. <i>Journal of Environmental Management</i> , 2020, 270, 110690.	3.8	11
39	Evaluation of ELISA microtiter plate-based assays for the direct determination of isoproturon in water samples and soil extracts. <i>Chemosphere</i> , 1997, 35, 1099-1116.	4.2	8
40	Reactivity of vadose-zone solids to S-metolachlor and its two main metabolites: case of a glaciofluvial aquifer. <i>Environmental Science and Pollution Research</i> , 2020, 27, 22865-22877.	2.7	7
41	Multi-tracer tests to evaluate the hydraulic setting of a complex aquifer system (BrÃ©villes spring) Tj ETQq1 1 0.784314 rgBT /Overlook 0.9 6	0.9	6
42	Toward Integrative Bacterial Monitoring of Metolachlor Toxicity in Groundwater. <i>Frontiers in Microbiology</i> , 2018, 9, 2053.	1.5	4
43	Elucidating heterogeneous nitrate contamination in a small basement aquifer. A multidisciplinary approach: NO3 isotopes, CFCs-SF6, microbiological activity, geophysics and hydrogeology. <i>Journal of Contaminant Hydrology</i> , 2021, 241, 103813.	1.6	3
44	Water isotopes and chemical tools for understanding pesticide transfer in a watershed of the volcanic island of Martinique (French West Indies). <i>Isotopes in Environmental and Health Studies</i> , 2020, 56, 684-699.	0.5	2
45	Nitrate transport in the chalk vadose zone in in Picardy (France). <i>Geological Society Special Publication</i> , 0, , SP517-2020-164.	0.8	0