

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/11780537/publications.pdf>

Version: 2024-02-01

68  
papers

5,007  
citations

66343

42  
h-index

95266

68  
g-index

68  
all docs

68  
docs citations

68  
times ranked

4705  
citing authors

#	ARTICLE	IF	CITATIONS
1	The distribution of rare earth elements in groundwaters: assessing the role of source-rock composition, redox changes and colloidal particles. <i>Geochimica Et Cosmochimica Acta</i> , 2000, 64, 4131-4151.	3.9	285
2	Increasing pH drives organic matter solubilization from wetland soils under reducing conditions. <i>Geoderma</i> , 2009, 154, 13-19.	5.1	284
3	Is trace metal release in wetland soils controlled by organic matter mobility or Fe-oxyhydroxides reduction?. <i>Journal of Colloid and Interface Science</i> , 2007, 314, 490-501.	9.4	266
4	Rare earth elements complexation with humic acid. <i>Chemical Geology</i> , 2007, 243, 128-141.	3.3	209
5	The influence of alteration on the trace-element and Nd isotopic compositions of komatiites. <i>Chemical Geology</i> , 1995, 126, 43-64.	3.3	190
6	Adsorption of REE(III)-humate complexes onto MnO <sub>2</sub> : Experimental evidence for cerium anomaly and lanthanide tetrad effect suppression. <i>Geochimica Et Cosmochimica Acta</i> , 2005, 69, 4825-4835.	3.9	156
7	Unexpected spatial stability of water chemistry in headwater stream networks. <i>Ecology Letters</i> , 2018, 21, 296-308.	6.4	149
8	Insights into colloid-mediated trace element release at the soil/water interface. <i>Journal of Colloid and Interface Science</i> , 2008, 325, 187-197.	9.4	142
9	Release of Trace Elements in Wetlands: Role of Seasonal Variability. <i>Water Research</i> , 2001, 35, 943-952.	11.3	140
10	Role of water table dynamics on stream nitrate export and concentration in agricultural headwater catchment (France). <i>Journal of Hydrology</i> , 2008, 348, 363-378.	5.4	130
11	Competition between humic acid and carbonates for rare earth elements complexation. <i>Journal of Colloid and Interface Science</i> , 2007, 305, 25-31.	9.4	115
12	Controls on the distribution of rare earth elements in shallow groundwaters. <i>Water Research</i> , 2004, 38, 3576-3586.	11.3	114
13	New insights into cerium anomalies in organic-rich alkaline waters. <i>Chemical Geology</i> , 2008, 251, 120-127.	3.3	111
14	A Compilation of Silicon and Thirty One Trace Elements Measured in the Natural River Water Reference Material SLRS-4 (NRC-CNRC). <i>Geostandards and Geoanalytical Research</i> , 2001, 25, 465-474.	3.1	106
15	Geochemical modeling of Fe(II) binding to humic and fulvic acids. <i>Chemical Geology</i> , 2014, 372, 109-118.	3.3	106
16	Impact of humate complexation on the adsorption of REE onto Fe oxyhydroxide. <i>Journal of Colloid and Interface Science</i> , 2004, 277, 271-279.	9.4	104
17	Competitive binding of REE to humic acid and manganese oxide: Impact of reaction kinetics on development of cerium anomaly and REE adsorption. <i>Chemical Geology</i> , 2008, 247, 154-170.	3.3	103
18	Rare earth element patterns: A tool for identifying trace metal sources during wetland soil reduction. <i>Chemical Geology</i> , 2011, 284, 127-137.	3.3	102

#	ARTICLE	IF	CITATIONS
19	Organic complexation of rare earth elements in natural waters: Evaluating model calculations from ultrafiltration data. <i>Geochimica Et Cosmochimica Acta</i> , 2007, 71, 2718-2735.	3.9	94
20	The origin of U-shaped rare earth patterns in ophiolite peridotites: assessing the role of secondary alteration and melt/rock reaction. <i>Geochimica Et Cosmochimica Acta</i> , 1998, 62, 3545-3560.	3.9	93
21	Challenges of Reducing Phosphorus Based Water Eutrophication in the Agricultural Landscapes of Northwest Europe. <i>Frontiers in Marine Science</i> , 2018, 5, .	2.5	91
22	Groundwater control of biogeochemical processes causing phosphorus release from riparian wetlands. <i>Water Research</i> , 2015, 84, 307-314.	11.3	82
23	Mechanisms of Nitrate Transfer from Soil to Stream in an Agricultural Watershed of French Brittany. <i>Water, Air, and Soil Pollution</i> , 2002, 133, 161-183.	2.4	81
24	Colloidal Control on the Distribution of Rare Earth Elements in Shallow Groundwaters. <i>Aquatic Geochemistry</i> , 2010, 16, 31-59.	1.3	81
25	An improved description of the interactions between rare earth elements and humic acids by modeling: PHREEQC-Model VI coupling. <i>Geochimica Et Cosmochimica Acta</i> , 2011, 75, 5625-5637.	3.9	79
26	Metal loading effect on rare earth element binding to humic acid: Experimental and modelling evidence. <i>Geochimica Et Cosmochimica Acta</i> , 2010, 74, 1749-1761.	3.9	74
27	Release of dissolved phosphorus from riparian wetlands: Evidence for complex interactions among hydroclimate variability, topography and soil properties. <i>Science of the Total Environment</i> , 2017, 598, 421-431.	8.0	73
28	Respective roles of Fe-oxyhydroxide dissolution, pH changes and sediment inputs in dissolved phosphorus release from wetland soils under anoxic conditions. <i>Geoderma</i> , 2019, 338, 365-374.	5.1	67
29	Distinct export dynamics for dissolved and particulate phosphorus reveal independent transport mechanisms in an arable headwater catchment. <i>Hydrological Processes</i> , 2015, 29, 3162-3178.	2.6	66
30	Effects of Fe competition on REE binding to humic acid: Origin of REE pattern variability in organic waters. <i>Chemical Geology</i> , 2013, 342, 119-127.	3.3	64
31	Multidecadal Trajectory of Riverine Nitrogen and Phosphorus Dynamics in Rural Catchments. <i>Water Resources Research</i> , 2018, 54, 5327-5340.	4.2	63
32	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.	4.2	60
33	Carbon isotopes as tracers of dissolved organic carbon sources and water pathways in headwater catchments. <i>Journal of Hydrology</i> , 2011, 402, 228-238.	5.4	59
34	The oxygen isotope composition of dissolved anthropogenic phosphates: a new tool for eutrophication research?. <i>Water Research</i> , 2005, 39, 232-238.	11.3	56
35	Reâ€œOs isotope systematics and HSE abundances of the 3.5ÃGa Schapenburg komatiites, South Africa: Hydrous melting or prolonged survival of primordial heterogeneities in the mantle?. <i>Chemical Geology</i> , 2009, 262, 355-369.	3.3	55
36	Biogeochemical Factors Affecting Rare Earth Element Distribution in Shallow Wetland Groundwater. <i>Aquatic Geochemistry</i> , 2015, 21, 197-215.	1.3	54

#	ARTICLE	IF	CITATIONS
37	Hf isotopic measurements on Barberton komatiites: effects of incomplete sample dissolution and importance for primary and secondary magmatic signatures. <i>Chemical Geology</i> , 2004, 207, 261-275.	3.3	51
38	Organo-colloidal control on major- and trace-element partitioning in shallow groundwaters: Confronting ultrafiltration and modelling. <i>Applied Geochemistry</i> , 2007, 22, 1568-1582.	3.0	51
39	Tracing the sources and cycling of phosphorus in river sediments using oxygen isotopes: Methodological adaptations and first results from a case study in France. <i>Water Research</i> , 2017, 111, 346-356.	11.3	51
40	Organic matter control on the reactivity of Fe(III)-oxyhydroxides and associated As in wetland soils: A kinetic modeling study. <i>Chemical Geology</i> , 2013, 335, 24-35.	3.3	46
41	Detection of manure-derived organic compounds in rivers draining agricultural areas of intensive manure spreading. <i>Applied Geochemistry</i> , 2007, 22, 1814-1824.	3.0	45
42	Using Sterols to Detect Pig Slurry Contribution to Soil Organic Matter. <i>Water, Air, and Soil Pollution</i> , 2007, 178, 169-178.	2.4	44
43	Upper soil horizons control the rare earth element patterns in shallow groundwater. <i>Geoderma</i> , 2015, 239-240, 84-96.	5.1	44
44	Aluminium competitive effect on rare earth elements binding to humic acid. <i>Geochimica Et Cosmochimica Acta</i> , 2012, 89, 1-9.	3.9	43
45	Fractal Water Quality Fluctuations Spanning the Periodic Table in an Intensively Farmed Watershed. <i>Environmental Science &amp; Technology</i> , 2014, 48, 930-937.	10.0	43
46	Interactions between natural organic matter, sulfur, arsenic and iron oxides in re-oxidation compounds within riparian wetlands: NanoSIMS and X-ray adsorption spectroscopy evidences. <i>Science of the Total Environment</i> , 2015, 515-516, 118-128.	8.0	43
47	Assessment of vanadium distribution in shallow groundwaters. <i>Chemical Geology</i> , 2012, 294-295, 89-102.	3.3	41
48	Predicting Nutrient Incontinence in the Anthropocene at Watershed Scales. <i>Frontiers in Environmental Science</i> , 2020, 7, .	3.3	39
49	Does As(III) interact with Fe(II), Fe(III) and organic matter through ternary complexes?. <i>Journal of Colloid and Interface Science</i> , 2016, 470, 153-161.	9.4	37
50	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, 7294-7302.	5.2	36
51	Thiol groups controls on arsenite binding by organic matter: New experimental and modeling evidence. <i>Journal of Colloid and Interface Science</i> , 2015, 460, 310-320.	9.4	34
52	Environmental impact of As(V)â€“Fe oxyhydroxide reductive dissolution: An experimental insight. <i>Chemical Geology</i> , 2009, 259, 290-303.	3.3	27
53	River network alteration of C-N-P dynamics in a mesoscale agricultural catchment. <i>Science of the Total Environment</i> , 2020, 749, 141551.	8.0	21
54	The influence of landscape spatial configuration on nitrogen and phosphorus exports in agricultural catchments. <i>Landscape Ecology</i> , 2021, 36, 3383-3399.	4.2	21

#	ARTICLE	IF	CITATIONS
55	A new tool for in situ monitoring of Fe-mobilization in soils. <i>Applied Geochemistry</i> , 2008, 23, 3372-3383.	3.0	20
56	Evidence of colloids as important phosphorus carriers in natural soil and stream waters in an agricultural catchment. <i>Journal of Environmental Quality</i> , 2020, 49, 921-932.	2.0	20
57	AgrHyS: An Observatory of Response Times in Agro-Hydro Systems. <i>Vadose Zone Journal</i> , 2018, 17, 1-16.	2.2	19
58	Development of a combined isotopic and mass-balance approach to determine dissolved organic carbon sources in eutrophic reservoirs. <i>Chemosphere</i> , 2011, 83, 356-366.	8.2	18
59	Bacteria-mediated reduction of As(V)-doped lepidocrocite in a flooded soil sample. <i>Chemical Geology</i> , 2015, 406, 34-44.	3.3	17
60	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.	1.8	16
61	New molecular evidence for surface and sub-surface soil erosion controls on the composition of stream DOM during storm events. <i>Biogeosciences</i> , 2017, 14, 5039-5051.	3.3	15
62	Spatio-temporal controls of C-N-P dynamics across headwater catchments of a temperate agricultural region from public data analysis. <i>Hydrology and Earth System Sciences</i> , 2021, 25, 2491-2511.	4.9	12
63	Tracing and Quantifying Sources of Fatty Acids and Steroids in Amended Cultivated Soils. <i>Journal of Agricultural and Food Chemistry</i> , 2009, 57, 6950-6956.	5.2	11
64	Conservation practices modify soil phosphorus sorption properties and the composition of dissolved phosphorus losses during runoff. <i>Soil and Tillage Research</i> , 2022, 220, 105353.	5.6	11
65	Agricultural Practices and Hydrologic Conditions Shape the Temporal Pattern of Soil and Stream Water Dissolved Organic Matter. <i>Ecosystems</i> , 2020, 23, 1325-1343.	3.4	10
66	Effect of loading on the nature of the REE-humate complexes as determined by Yb <sup>3+</sup> and Sm <sup>3+</sup> LIII-edge EXAFS analysis. <i>Chemical Geology</i> , 2015, 396, 218-227.	3.3	8
67	Unravelling the fate of arsenic during re-oxidation of reduced wetland waters: Experimental constraints and environmental consequences. <i>Comptes Rendus - Geoscience</i> , 2015, 347, 304-314.	1.2	7
68	Water Table Dynamics Control Carbon Losses from the Destabilization of Soil Organic Matter in a Small, Lowland Agricultural Catchment. <i>Soil Systems</i> , 2020, 4, 2.	2.6	2