Olivier Pourret

List of Publications by Year
in descending order

76 papers	3,073 citations	136885 32 h-index	161767 54 g-index
105 all docs	105 docs citations	105 times ranked	3245 citing authors

#	Article	IF	Citations
1	Rare earth elements complexation with humic acid. Chemical Geology, 2007, 243, 128-141.	1.4	209
2	Copper and cobalt accumulation in plants: a critical assessment of the current state of knowledge. New Phytologist, 2017, 213, 537-551.	3.5	190
3	Adsorption of REE(III)-humate complexes onto MnO2: Experimental evidence for cerium anomaly and lanthanide tetrad effect suppression. Geochimica Et Cosmochimica Acta, 2005, 69, 4825-4835.	1.6	156
4	Itâ€™s Time to Replace the Term â€œHeavy Metalsâ€•with â€œPotentially Toxic Elementsâ€•When Reporting Environmental Research. International Journal of Environmental Research and Public Health, 2019, 16, 4446.	1.2	125
5	Assessment of soil contamination around an abandoned mine in a semi-arid environment using geochemistry and geostatistics: Pre-work of geochemical process modeling with numerical models. Journal of Geochemical Exploration, 2013, 125, 117-129.	1.5	124
6	A new discrimination scheme for oceanic ferromanganese deposits using high field strength and rare earth elements. Ore Geology Reviews, 2017, 87, 3-15.	1.1	123
7	Competition between humic acid and carbonates for rare earth elements complexation. Journal of Colloid and Interface Science, 2007, 305, 25-31.	5.0	115
8	New insights into cerium anomalies in organic-rich alkaline waters. Chemical Geology, 2008, 251, 120-127.	1.4	111
9	Geochemical modeling of Fe(II) binding to humic and fulvic acids. Chemical Geology, 2014, 372, 109-118.	1.4	106
10	Impact of humate complexation on the adsorption of REE onto Fe oxyhydroxide. Journal of Colloid and Interface Science, 2004, 277, 271-279.	5.0	104
11	Competitive binding of REE to humic acid and manganese oxide: Impact of reaction kinetics on development of cerium anomaly and REE adsorption. Chemical Geology, 2008, 247, 154-170.	1.4	103
12	Assessment of soil metal distribution and environmental impact of mining in Katanga (Democratic) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	1.4	98
13	Organic complexation of rare earth elements in natural waters: Evaluating model calculations from ultrafiltration data. Geochimica Et Cosmochimica Acta, 2007, 71, 2718-2735.	1.6	94
14	The impact of igneous bedrock weathering on the Mo isotopic composition of stream waters: Natural samples and laboratory experiments. Geochimica Et Cosmochimica Acta, 2012, 86, 150-165.	1.6	83
15	Colloidal Control on the Distribution of Rare Earth Elements in Shallow Groundwaters. Aquatic Geochemistry, 2010, 16, 31-59.	1.5	81
16	Rare earth elements sorption to iron oxyhydroxide: Model development and application to groundwater. Applied Geochemistry, 2017, 87, 158-166.	1.4	70
17	Rare earth element sorption onto hydrous manganese oxide: A modeling study. Journal of Colloid and Interface Science, 2013, 395, 18-23.	5.0	60
18	Negative cerium anomalies in manganese (hydr)oxide precipitates due to cerium oxidation in the presence of dissolved siderophores. Geochimica Et Cosmochimica Acta, 2017, 196, 197-208.	1.6	59

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19	Biogeochemical Factors Affecting Rare Earth Element Distribution in Shallow Wetland Groundwater. Aquatic Geochemistry, 2015, 21, 197-215.	1.5	54
20	Organo-colloidal control on major- and trace-element partitioning in shallow groundwaters: Confronting ultrafiltration and modelling. Applied Geochemistry, 2007, 22, 1568-1582.	1.4	51
21	â€œHeavy metalâ€• What to do now: To use or not to use?. Science of the Total Environment, 2018, 610-611, 419-420.	3.9	49
22	Prediction of the edaphic factors influence upon the copper and cobalt accumulation in two metallophytes using copper and cobalt speciation in soils. Plant and Soil, 2014, 379, 275-287.	1.8	44
23	Copper and cobalt mobility in soil and accumulation in a metallophyte as influenced by experimental manipulation of soil chemical factors. Chemosphere, 2016, 146, 75-84.	4.2	43
24	Heavy metal: a misused term?. Acta Geochimica, 2021, 40, 466-471.	0.7	42
25	Assessment of vanadium distribution in shallow groundwaters. Chemical Geology, 2012, 294-295, 89-102.	1.4	41
26	Characterization of metal binding sites onto biochar using rare earth elements as a fingerprint. Heliyon, 2018, 4, e00543.	1.4	41
27	Extraction and separation of rare earth elements from hydrothermal metalliferous sediments. Minerals Engineering, 2018, 118, 106-121.	1.8	39
28	Modeling of rare earth element sorption to the Gram positive Bacillus subtilis bacteria surface. Journal of Colloid and Interface Science, 2014, 413, 106-111.	5.0	37
29	Modeling lanthanide series binding sites on humic acid. Journal of Colloid and Interface Science, 2009, 330, 45-50.	5.0	36
30	Effect of rare earth elements on rice plant growth. Chemical Geology, 2018, 489, 28-37.	1.4	35
31	Copper tolerance and accumulation in two cuprophytes of South Central Africa: Crepidorhopalon perennis and C. tenuis (Linderniaceae). Environmental and Experimental Botany, 2012, 84, 11-16.	2.0	34
32	Aqueous chemistry of Ce(<scp>iv</scp>): estimations using actinide analogues. Dalton Transactions, 2017, 46, 13553-13561.	1.6	34
33	Continental shelves as potential resource of rare earth elements. Scientific Reports, 2017, 7, 5857.	1.6	33
34	Rare earth element fractionation in heterogenite (CoOOH): implication for cobalt oxidized ore in the Katanga Copperbelt (Democratic Republic of Congo). Journal of Geochemical Exploration, 2015, 159, 290-301.	1.5	32
35	On the Necessity of Banning the Term â€œHeavy Metalâ€•from the Scientific Literature. Sustainability, 2018, 10, 2879.	1.6	29
36	Modeling of cobalt and copper speciation in metalliferous soils from Katanga (Democratic Republic of) Tj ETQq0 0 0 rgBT /Overlock 10 T	1.5	28

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37	Implication of plant-soil relationships for conservation and restoration of copper-cobalt ecosystems. Plant and Soil, 2016, 403, 153-165.	1.8	26
38	Effect of Cadmium, Copper and Lead on the Growth of Rice in the Coal Mining Region of Quang Ninh, Cam-Pha (Vietnam). Sustainability, 2018, 10, 1758.	1.6	22
39	Distribution of rare earth elements in sediments of the North China Plain: A probe of sedimentation process. Applied Geochemistry, 2021, 134, 105089.	1.4	22
40	Lead distribution in soils impacted by a secondary lead smelter: Experimental and modelling approaches. Science of the Total Environment, 2016, 568, 155-163.	3.9	20
41	Rare earth elements in French stream waters â€" Revisiting the geochemical continental cycle using FOREGS dataset. Journal of Geochemical Exploration, 2015, 157, 132-142.	1.5	19
42	On the difficulties of being rigorous in environmental geochemistry studies: some recommendations for designing an impactful paper. Environmental Science and Pollution Research, 2020, 27, 1267-1275.	2.7	16
43	Behavior of rare earth elements in an aquifer perturbed by CO2 injection: Environmental implications. Science of the Total Environment, 2019, 687, 978-990.	3.9	15
44	Large expert-curated database for benchmarking document similarity detection in biomedical literature search. Database: the Journal of Biological Databases and Curation, 2019, 2019, .	1.4	15
45	Evaluation of the impact of organic matter composition on metal speciation in calcareous soil solution: Comparison of Model VI and NICA-Donnan. Journal of Geochemical Exploration, 2016, 165, 1-7.	1.5	14
46	Geochemical signatures of rare earth elements and yttrium exploited by acid solution mining around an ion-adsorption type deposit: Role of source control and potential for recovery. Science of the Total Environment, 2022, 804, 150241.	3.9	14
47	The â€˜europium anomalyâ€™ in plants: facts and fiction. Plant and Soil, 2022, 476, 721-728.	1.8	14
48	Biogeosciences Perspectives on Integrated, Coordinated, Open, Networked (ICON) Science. Earth and Space Science, 2022, 9, .	1.1	14
49	Fertilizer Potential of Struvite as Affected by Nitrogen Form in the Rhizosphere. Sustainability, 2020, 12, 2212.	1.6	13
50	Mobility of copper and cobalt in metalliferous ecosystems: Results of a lysimeter study in the Lubumbashi Region (Democratic Republic of Congo). Journal of Geochemical Exploration, 2019, 196, 208-218.	1.5	9
51	Diversity, equity, and inclusion: Tackling under-representation and recognition of talents in geochemistry and cosmochemistry. Geochimica Et Cosmochimica Acta, 2021, 310, 363-371.	1.6	9
52	Effect of substrate properties and phosphorus supply on facilitating the uptake of rare earth elements (REE) in mixed culture cropping systems of Hordeum vulgare, Lupinus albus and Lupinus angustifolius. Environmental Science and Pollution Research, 2022, 29, 57172-57189.	2.7	9
53	Role of Manganese Oxyhydroxides in the Transport of Rare Earth Elements Along a Groundwater Flow Path. International Journal of Environmental Research and Public Health, 2019, 16, 2263.	1.2	8
54	Comments on â€œFactors affecting global flow of scientific knowledge in environmental sciencesâ€•by Sonne et al. (2020). Science of the Total Environment, 2020, 721, 136454.	3.9	7

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55	Global Flow of Scholarly Publishing And Open Access. Elements, 2020, 16, 6-7.	0.5	7
56	The growth of open access publishing in geochemistry. Results in Geochemistry, 2020, 1, 100001.	0.3	7
57	Open Access publishing practice in geochemistry: overview of current state and look to the future. Heliyon, 2020, 6, e03551.	1.4	7
58	Element Case Studies: Cobalt and Copper. Mineral Resource Reviews, 2018, , 233-239.	1.5	6
59	Impact of Hydrous Manganese and Ferric Oxides on the Behavior of Aqueous Rare Earth Elements (REE): Evidence from a Modeling Approach and Implication for the Sink of REE. International Journal of Environmental Research and Public Health, 2018, 15, 2837.	1.2	6
60	Wear your mask, but think about deaf students. Nature, 2020, 586, 629-630.	13.7	4
61	Open Access in Geochemistry from Preprints to Data Sharing: Past, Present, and Future. Publications, 2022, 10, 3.	1.9	4
62	Our Study is Published, But the Journey is Not Finished!. Elements, 2020, 16, 229-230.	0.5	3
63	On the Potential of Preprints in Geochemistry: The Good, the Bad, and the Ugly. Sustainability, 2020, 12, 3360.	1.6	3
64	International disparities in open access practices in the Earth Sciences. European Science Editing, 0, 47, .	0.0	3
65	Toward More Inclusive Metrics and Open Science to Measure Research Assessment in Earth and Natural Sciences. Frontiers in Research Metrics and Analytics, 2022, 7, 850333.	0.9	3
66	The need for a new set of measures to assess the impact of research in earth sciences in Indonesia. European Science Editing, 0, 47, .	0.0	2
67	Why scientists with children who have disabilities need a different career trajectory. Nature, 2020, 583, 646-646.	13.7	2
68	Diversity Among Editorial Boards of Elements and Other Selected Geochemistry, Cosmochemistry, Mineralogy and Petrology Journals. Elements, 2021, 17, 150-152.	0.5	0
69	From Coal, A New Source Of Rare Earth Elements â€" But Also A New Identified Risk To The Population!Â. , 2018, , .		0
70	Will Increasing Demand For Cobalt Impact The Environment?. , 2018, , .		0
71	When Rock Meets Life. , 2018, , .		0
72	What Is The Answer To The Universe, Life, And Everything Else?. , 2018, , .		0

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73	The Mobility Of Copper And Cobalt In Metalliferous EcosystemsÂ. , 2018, , .		0
74	Element Case Studies: Cobalt. Mineral Resource Reviews, 2021, , 385-391.	1.5	0
75	Does carbon dioxide storage by cyanobacteria induce biomineralization in presence of basaltic glass?. Geochemical Journal, 2021, 55, 51-58.	0.5	0
76	Radiogenic isotope: Not just about words. Applied Geochemistry, 2022, 142, 105348.	1.4	0