

# Emmanuel Doelsch

## 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.

62

papers

1,634

citations

26

h-index

38

g-index

65

ext. papers

1,847

ext. citations

6.9

avg, IF

4.31

L-index

#	Paper	IF	Citations
62	Contrasted fate of zinc sulfide nanoparticles in soil revealed by a combination of X-ray absorption spectroscopy, diffusive gradient in thin films and isotope tracing. <i>Environmental Pollution</i> , <b>2022</b> , 292, 118414	9.3	0
61	Relative Weight of Organic Waste Origin on Compost and Digestate 16S rRNA Gene Bacterial Profilings and Related Functional Inferences. <i>Frontiers in Microbiology</i> , <b>2021</b> , 12, 667043	5.7	3
60	X-ray absorption spectroscopy evidence of sulfur-bound cadmium in the Cd-hyperaccumulator <i>Solanum nigrum</i> and the non-accumulator <i>Solanum melongena</i> . <i>Environmental Pollution</i> , <b>2021</b> , 279, 116897	8.3	0
59	Redistribution of Zn towards light-density fractions and potentially mobile phases in a long-term manure-amended clayey soil. <i>Geoderma</i> , <b>2021</b> , 394, 115044	6.7	1
58	How Microbial Biofilms Control the Environmental Fate of Engineered Nanoparticles?. <i>Frontiers in Environmental Science</i> , <b>2020</b> , 8,	4.8	11
57	Zinc Speciation in Organic Waste Drives Its Fate in Amended Soils. <i>Environmental Science &amp; Technology</i> , <b>2020</b> , 54, 12034-12041	10.3	6
56	The impact of fermentation on the distribution of cadmium in cacao beans. <i>Food Research International</i> , <b>2020</b> , 127, 108743	7	11
55	Phytoavailability of silver at predicted environmental concentrations: does the initial ionic or nanoparticulate form matter?. <i>Environmental Science: Nano</i> , <b>2019</b> , 6, 127-135	7.1	4
54	Soil organo-mineral associations formed by co-precipitation of Fe, Si and Al in presence of organic ligands. <i>Geochimica Et Cosmochimica Acta</i> , <b>2019</b> , 260, 15-28	5.5	29
53	, and Spectroscopic Assessment of Lead Exposure Reduction via Ingestion and Inhalation Pathways Using Phosphate and Iron Amendments. <i>Environmental Science &amp; Technology</i> , <b>2019</b> , 53, 10329-10341	10.3	15
52	Lead, zinc, and copper redistributions in soils along a deposition gradient from emissions of a Pb-Ag smelter decommissioned 100 years ago. <i>Science of the Total Environment</i> , <b>2019</b> , 665, 502-512	10.2	27
51	Composition and molecular scale structure of nanophases formed by precipitation of biotite weathering products. <i>Geochimica Et Cosmochimica Acta</i> , <b>2018</b> , 229, 53-64	5.5	10
50	Drastic Change in Zinc Speciation during Anaerobic Digestion and Composting: Instability of Nanosized Zinc Sulfide. <i>Environmental Science &amp; Technology</i> , <b>2018</b> , 52, 12987-12996	10.3	19
49	Does specific parameterization of WHAM improve the prediction of copper competitive binding and toxicity on plant roots?. <i>Chemosphere</i> , <b>2017</b> , 170, 225-232	8.4	1
48	Radical change of Zn speciation in pig slurry amended soil: Key role of nano-sized sulfide particles. <i>Environmental Pollution</i> , <b>2017</b> , 222, 495-503	9.3	12
47	Application of Synchrotron Radiation-based Methods for Environmental Biogeochemistry: Introduction to the Special Section. <i>Journal of Environmental Quality</i> , <b>2017</b> , 46, 1139-1145	3.4	11
46	Anaerobic Digestion Alters Copper and Zinc Speciation. <i>Environmental Science &amp; Technology</i> , <b>2017</b> , 51, 10326-10334	10.3	22

45	Evidence that Soil Properties and Organic Coating Drive the Phytoavailability of Cerium Oxide Nanoparticles. <i>Environmental Science &amp; Technology</i> , <b>2017</b> , 51, 9756-9764	10.3	35
44	Parameterizing the binding properties of dissolved organic matter with default values skews the prediction of copper solution speciation and ecotoxicity in soil. <i>Environmental Toxicology and Chemistry</i> , <b>2017</b> , 36, 898-905	3.8	10
43	Increased zinc and copper availability in organic waste amended soil potentially involving distinct release mechanisms. <i>Environmental Pollution</i> , <b>2016</b> , 212, 299-306	9.3	40
42	Involvement of nitrogen functional groups in high-affinity copper binding in tomato and wheat root apoplasts: spectroscopic and thermodynamic evidence. <i>Metallomics</i> , <b>2016</b> , 8, 366-76	4.5	8
41	Diagnostic de contamination des agrosystèmes périurbains de Dakar par les éléments traces métalliques. <i>Biotechnology, Agronomy and Society and Environment</i> , <b>2016</b> , 397-407	1.3	3
40	Direct uptake of organically derived carbon by grass roots and allocation in leaves and phytoliths: <sup>13</sup> C labeling evidence. <i>Biogeosciences</i> , <b>2016</b> , 13, 1693-1703	4.6	24
39	Copper and zinc accumulation and fractionation in a clayey Hapludox soil subject to long-term pig slurry application. <i>Science of the Total Environment</i> , <b>2015</b> , 536, 831-839	10.2	29
38	Ex-ante fate assessment of trace organic contaminants for decision making: a post-normal estimation for sludge recycling in Reunion. <i>Journal of Environmental Management</i> , <b>2015</b> , 147, 140-51	7.9	5
37	Repeated pig manure applications modify nitrate and chloride competition and fluxes in a Nitisol. <i>Science of the Total Environment</i> , <b>2015</b> , 511, 238-48	10.2	11
36	Effect of dissolved organic matter composition on metal speciation in soil solutions. <i>Chemical Geology</i> , <b>2015</b> , 398, 61-69	4.2	85
35	Evidence of sulfur-bound reduced copper in bamboo exposed to high silicon and copper concentrations. <i>Environmental Pollution</i> , <b>2014</b> , 187, 22-30	9.3	65
34	Isolated cell walls exhibit cation binding properties distinct from those of plant roots. <i>Plant and Soil</i> , <b>2014</b> , 381, 367-379	4.2	22
33	INVESTIGATION OF TRACE ELEMENTS CONTENT IN ORGANIC WASTES USED FOR MARKET GARDENING. <i>Acta Horticulturae</i> , <b>2014</b> , 275-284	0.3	
32	Zinc fate in animal husbandry systems. <i>Metallomics</i> , <b>2014</b> , 6, 1999-2009	4.5	15
31	Returning Organic Residues to Agricultural Land (RORAL) Fuelling the Follow-the-Technology approach. <i>Agricultural Systems</i> , <b>2014</b> , 124, 60-69	6.1	13
30	Effects of silicon and copper on bamboo grown hydroponically. <i>Environmental Science and Pollution Research</i> , <b>2013</b> , 20, 6482-95	5.1	17
29	Fate and behaviour of Cu and Zn from pig slurry spreading in a tropical water-soil-plant system. <i>Agriculture, Ecosystems and Environment</i> , <b>2013</b> , 164, 70-79	5.7	36
28	Investigation of potentially toxic heavy metals in different organic wastes used to fertilize market garden crops. <i>Waste Management</i> , <b>2013</b> , 33, 184-92	8.6	22

27	Distribution and variability of silicon, copper and zinc in different bamboo species. <i>Plant and Soil</i> , <b>2012</b> , 351, 377-387	4.2	29
26	Structure and distribution of allophanes, imogolite and proto-imogolite in volcanic soils. <i>Geoderma</i> , <b>2012</b> , 183-184, 100-108	6.7	65
25	High energy resolution five-crystal spectrometer for high quality fluorescence and absorption measurements on an x-ray absorption spectroscopy beamline. <i>Review of Scientific Instruments</i> , <b>2012</b> , 83, 063104	1.7	44
24	Synthesis of Ge-imogolite: influence of the hydrolysis ratio on the structure of the nanotubes. <i>Physical Chemistry Chemical Physics</i> , <b>2011</b> , 13, 14516-22	3.6	28
23	Combining size fractionation, scanning electron microscopy, and X-ray absorption spectroscopy to probe zinc speciation in pig slurry. <i>Journal of Environmental Quality</i> , <b>2010</b> , 39, 531-40	3.4	24
22	Fifth Annual SOLEIL Users Meeting. <i>Synchrotron Radiation News</i> , <b>2010</b> , 23, 18-20	0.6	
21	Formation and Growth Mechanisms of Imogolite-Like Aluminogermanate Nanotubes. <i>Chemistry of Materials</i> , <b>2010</b> , 22, 2466-2473	9.6	53
20	Investigation of copper speciation in pig slurry by a multitechnique approach. <i>Environmental Science &amp; Technology</i> , <b>2010</b> , 44, 6926-32	10.3	44
19	Evidence of double-walled Al-Ge imogolite-like nanotubes. a cryo-TEM and SAXS investigation. <i>Journal of the American Chemical Society</i> , <b>2010</b> , 132, 1208-9	16.4	54
18	Impact of pig slurry and green waste compost application on heavy metal exchangeable fractions in tropical soils. <i>Geoderma</i> , <b>2010</b> , 155, 390-400	6.7	31
17	Impact of high natural soilborne heavy metal concentrations on the mobility and phytoavailability of these elements for sugarcane. <i>Geoderma</i> , <b>2010</b> , 159, 452-458	6.7	10
16	Spectroscopic characterization of organic matter of a soil and vinasse mixture during aerobic or anaerobic incubation. <i>Waste Management</i> , <b>2009</b> , 29, 1929-35	8.6	30
15	Synthesis of imogolite fibers from decimolar concentration at low temperature and ambient pressure: a promising route for inexpensive nanotubes. <i>Journal of the American Chemical Society</i> , <b>2009</b> , 131, 17080-1	16.4	57
14	Role of natural nanoparticles on the speciation of Ni in andosols of la Reunion. <i>Geochimica Et Cosmochimica Acta</i> , <b>2009</b> , 73, 4750-4760	5.5	26
13	Fractionation of tropical soilborne heavy metals. Comparison of two sequential extraction procedures. <i>Geoderma</i> , <b>2008</b> , 143, 168-179	6.7	51
12	Synthesis of large quantities of single-walled aluminogermanate nanotube. <i>Journal of the American Chemical Society</i> , <b>2008</b> , 130, 5862-3	16.4	65
11	New combination of EXAFS spectroscopy and density fractionation for the speciation of chromium within an andosol. <i>Environmental Science &amp; Technology</i> , <b>2006</b> , 40, 7602-8	10.3	38
10	Impact of sewage sludge spreading on heavy metal speciation in tropical soils (Réunion, Indian Ocean). <i>Chemosphere</i> , <b>2006</b> , 65, 286-93	8.4	38

9	Heavy metal content in soils of Réunion (Indian Ocean). <i>Geoderma</i> , <b>2006</b> , 134, 119-134	6.7	50
8	Sources of very high heavy metal content in soils of volcanic island (La Réunion). <i>Journal of Geochemical Exploration</i> , <b>2006</b> , 88, 194-197	3.8	24
7	Chemistry and structure of colloids obtained by hydrolysis of Fe(III) in the presence of SiO <sub>4</sub> ligands. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2003</b> , 217, 121-128	5.1	62
6	Hydrolysis of Iron(II) Chloride under Anoxic Conditions and Influence of SiO <sub>4</sub> Ligands. <i>Langmuir</i> , <b>2002</b> , 18, 4292-4299	4	17
5	Speciation and Crystal Chemistry of Iron(III) Chloride Hydrolyzed in the Presence of SiO <sub>4</sub> Ligands. 3. Semilocal Scale Structure of the Aggregates. <i>Langmuir</i> , <b>2001</b> , 17, 4753-4757	4	17
4	Speciation and Crystal Chemistry of Fe(III) Chloride Hydrolyzed in the Presence of SiO <sub>4</sub> Ligands. 2. Characterization of SiBe Aggregates by FTIR and <sup>29</sup> Si Solid-State NMR. <i>Langmuir</i> , <b>2001</b> , 17, 1399-1405	4	68
3	Crystal Chemistry of Colloids Obtained by Hydrolysis of Fe(III) in the Presence of SiO <sub>4</sub> Ligands. <i>Materials Research Society Symposia Proceedings</i> , <b>2000</b> , 658, 3361		
2	Speciation and Crystal Chemistry of Iron(III) Chloride Hydrolyzed in the Presence of SiO <sub>4</sub> Ligands. 1. An Fe K-Edge EXAFS Study. <i>Langmuir</i> , <b>2000</b> , 16, 4726-4731	4	85
1	Direct uptake of organic carbon by grass roots and allocation in leaves and phytoliths: <sup>13</sup> C labeling evidence		1