Emmanuel Doelsch

List of Publications by Year
in descending order

62 papers	2,093 citations	172207 29 h-index	243296 44 g-index
65 all docs	65 docs citations	65 times ranked	2453 citing authors

#	Article	IF	Citations
1	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. Environmental Pollution, 2022, 292, 118414.	3.7	4
2	Trace contaminants in the environmental assessment of organic waste recycling in agriculture: Gaps between methods and knowledge. Advances in Agronomy, 2022, , 53-188.	2.4	8
3	Organic waste-borne ZnS nanoparticles: The forgotten ones. Environmental Pollution, 2022, 308, 119629.	3.7	3
4	Relative Weight of Organic Waste Origin on Compost and Digestate 16S rRNA Gene Bacterial Profilings and Related Functional Inferences. Frontiers in Microbiology, 2021, 12, 667043.	1.5	8
5	X-ray absorption spectroscopy evidence of sulfur-bound cadmium in the Cd-hyperaccumulator Solanum nigrum and the non-accumulator Solanum melongena. Environmental Pollution, 2021, 279, 116897.	3.7	13
6	Redistribution of Zn towards light-density fractions and potentially mobile phases in a long-term manure-amended clayey soil. Geoderma, 2021, 394, 115044.	2.3	3
7	The impact of fermentation on the distribution of cadmium in cacao beans. Food Research International, 2020, 127, 108743.	2.9	23
8	Zinc Speciation in Organic Waste Drives Its Fate in Amended Soils. Environmental Science & Technology, 2020, 54, 12034-12041.	4.6	12
9	How Microbial Biofilms Control the Environmental Fate of Engineered Nanoparticles?. Frontiers in Environmental Science, 2020, 8, .	1.5	18
10	<i>In Vitro</i>, <i>in Vivo,</i> and Spectroscopic Assessment of Lead Exposure Reduction via Ingestion and Inhalation Pathways Using Phosphate and Iron Amendments. Environmental Science & Technology, 2019, 53, 10329-10341.	4.6	38
11	Phytoavailability of silver at predicted environmental concentrations: does the initial ionic or nanoparticulate form matter?. Environmental Science: Nano, 2019, 6, 127-135.	2.2	5
12	Soil organo-mineral associations formed by co-precipitation of Fe, Si and Al in presence of organic ligands. Geochimica Et Cosmochimica Acta, 2019, 260, 15-28.	1.6	51
13	Lead, zinc, and copper redistributions in soils along a deposition gradient from emissions of a Pb-Ag smelter decommissioned 100â€¯years ago. Science of the Total Environment, 2019, 665, 502-512.	3.9	50
14	Composition and molecular scale structure of nanophases formed by precipitation of biotite weathering products. Geochimica Et Cosmochimica Acta, 2018, 229, 53-64.	1.6	15
15	Drastic Change in Zinc Speciation during Anaerobic Digestion and Composting: Instability of Nanosized Zinc Sulfide. Environmental Science & Technology, 2018, 52, 12987-12996.	4.6	28
16	Does specific parameterization of WHAM improve the prediction of copper competitive binding and toxicity on plant roots?. Chemosphere, 2017, 170, 225-232.	4.2	4
17	Radical change of Zn speciation in pig slurry amended soil: Key role of nano-sized sulfide particles. Environmental Pollution, 2017, 222, 495-503.	3.7	21
18	Anaerobic Digestion Alters Copper and Zinc Speciation. Environmental Science & Technology, 2017, 51, 10326-10334.	4.6	35

#	Article	IF	Citations
19	Evidence that Soil Properties and Organic Coating Drive the Phytoavailability of Cerium Oxide Nanoparticles. Environmental Science & Technology, 2017, 51, 9756-9764.	4.6	49
20	Parameterizing the binding properties of dissolved organic matter with default values skews the prediction of copper solution speciation and ecotoxicity in soil. Environmental Toxicology and Chemistry, 2017, 36, 898-905.	2.2	16
21	Application of Synchrotron Radiationâ€based Methods for Environmental Biogeochemistry: Introduction to the Special Section. Journal of Environmental Quality, 2017, 46, 1139-1145.	1.0	15
22	Direct uptake of organically derived carbon by grass roots and allocation in leaves and phytoliths: ¹³C labeling evidence. Biogeosciences, 2016, 13, 1693-1703.	1.3	28
23	Increased zinc and copper availability in organic waste amended soil potentially involving distinct release mechanisms. Environmental Pollution, 2016, 212, 299-306.	3.7	54
24	Involvement of nitrogen functional groups in high-affinity copper binding in tomato and wheat root apoplasts: spectroscopic and thermodynamic evidence. Metallomics, 2016, 8, 366-376.	1.0	8
25	Repeated pig manure applications modify nitrate and chloride competition and fluxes in a Nitisol. Science of the Total Environment, 2015, 511, 238-248.	3.9	11
26	Effect of dissolved organic matter composition on metal speciation in soil solutions. Chemical Geology, 2015, 398, 61-69.	1.4	102
27	Copper and zinc accumulation and fractionation in a clayey Hapludox soil subject to long-term pig slurry application. Science of the Total Environment, 2015, 536, 831-839.	3.9	43
28	Ex-ante fate assessment of trace organic contaminants for decision making: A post-normal estimation for sludge recycling in Reunion. Journal of Environmental Management, 2015, 147, 140-151.	3.8	6
29	INVESTIGATION OF TRACE ELEMENTS CONTENT IN ORGANIC WASTES USED FOR MARKET GARDENING. Acta Horticulturae, 2014, , 275-284.	0.1	0
30	Zinc fate in animal husbandry systems. Metallomics, 2014, 6, 1999-2009.	1.0	20
31	Returning Organic Residues to Agricultural Land (RORAL) â€" Fuelling the Follow-the-Technology approach. Agricultural Systems, 2014, 124, 60-69.	3.2	21
32	Evidence of sulfur-bound reduced copper in bamboo exposed to high silicon and copper concentrations. Environmental Pollution, 2014, 187, 22-30.	3.7	78
33	Isolated cell walls exhibit cation binding properties distinct from those of plant roots. Plant and Soil, 2014, 381, 367-379.	1.8	24
34	Effects of silicon and copper on bamboo grown hydroponically. Environmental Science and Pollution Research, 2013, 20, 6482-6495.	2.7	21
35	Fate and behaviour of Cu and Zn from pig slurry spreading in a tropical waterâ€"soilâ€"plant system. Agriculture, Ecosystems and Environment, 2013, 164, 70-79.	2.5	44
36	Investigation of potentially toxic heavy metals in different organic wastes used to fertilize market garden crops. Waste Management, 2013, 33, 184-192.	3.7	36

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37	High energy resolution five-crystal spectrometer for high quality fluorescence and absorption measurements on an x-ray absorption spectroscopy beamline. Review of Scientific Instruments, 2012, 83, 063104.	0.6	55
38	Structure and distribution of allophanes, imogolite and proto-imogolite in volcanic soils. Geoderma, 2012, 183-184, 100-108.	2.3	83
39	Distribution and variability of silicon, copper and zinc in different bamboo species. Plant and Soil, 2012, 351, 377-387.	1.8	36
40	Synthesis of Ge-imogolite: influence of the hydrolysis ratio on the structure of the nanotubes. Physical Chemistry Chemical Physics, 2011, 13, 14516.	1.3	29
41	Combining Size Fractionation, Scanning Electron Microscopy, and Xâ€ray Absorption Spectroscopy to Probe Zinc Speciation in Pig Slurry. Journal of Environmental Quality, 2010, 39, 531-540.	1.0	27
42	Fifth Annual SOLEIL Users' Meeting. Synchrotron Radiation News, 2010, 23, 18-20.	0.2	0
43	Formation and Growth Mechanisms of Imogolite-Like Aluminogermanate Nanotubes. Chemistry of Materials, 2010, 22, 2466-2473.	3.2	60
44	Investigation of Copper Speciation in Pig Slurry by a Multitechnique Approach. Environmental Science & Technology, 2010, 44, 6926-6932.	4.6	50
45	Evidence of Double-Walled Alâ"Ge Imogolite-Like Nanotubes. A Cryo-TEM and SAXS Investigation. Journal of the American Chemical Society, 2010, 132, 1208-1209.	6.6	56
46	Impact of pig slurry and green waste compost application on heavy metal exchangeable fractions in tropical soils. Geoderma, 2010, 155, 390-400.	2.3	34
47	Impact of high natural soilborne heavy metal concentrations on the mobility and phytoavailability of these elements for sugarcane. Geoderma, 2010, 159, 452-458.	2.3	10
48	Spectroscopic characterization of organic matter of a soil and vinasse mixture during aerobic or anaerobic incubation. Waste Management, 2009, 29, 1929-1935.	3.7	39
49	Synthesis of Imogolite Fibers from Decimolar Concentration at Low Temperature and Ambient Pressure: A Promising Route for Inexpensive Nanotubes. Journal of the American Chemical Society, 2009, 131, 17080-17081.	6.6	58
50	Role of natural nanoparticles on the speciation of Ni in andosols of la Reunion. Geochimica Et Cosmochimica Acta, 2009, 73, 4750-4760.	1.6	28
51	Fractionation of tropical soilborne heavy metalsâ€"Comparison of two sequential extraction procedures. Geoderma, 2008, 143, 168-179.	2.3	61
52	Synthesis of Large Quantities of Single-Walled Aluminogermanate Nanotube. Journal of the American Chemical Society, 2008, 130, 5862-5863.	6.6	72
53	New Combination of EXAFS Spectroscopy and Density Fractionation for the Speciation of Chromium within an Andosol. Environmental Science & Technology, 2006, 40, 7602-7608.	4.6	47
54	Impact of sewage sludge spreading on heavy metal speciation in tropical soils (RÃ©union, Indian Ocean). Chemosphere, 2006, 65, 286-293.	4.2	41

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55	Heavy metal content in soils of RÃ©union (Indian Ocean). Geoderma, 2006, 134, 119-134.	2.3	64
56	Sources of very high heavy metal content in soils of volcanic island (La RÃ©union). Journal of Geochemical Exploration, 2006, 88, 194-197.	1.5	32
57	Chemistry and structure of colloids obtained by hydrolysis of Fe(III) in the presence of SiO4 ligands. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2003, 217, 121-128.	2.3	78
58	Hydrolysis of Iron(II) Chloride under Anoxic Conditions and Influence of SiO4Ligands. Langmuir, 2002, 18, 4292-4299.	1.6	19
59	Speciation and Crystal Chemistry of Iron(III) Chloride Hydrolyzed in the Presence of SiO4Ligands. 3. Semilocal Scale Structure of the Aggregates. Langmuir, 2001, 17, 4753-4757.	1.6	21
60	Speciation and Crystal Chemistry of Fe(III) Chloride Hydrolyzed in the Presence of SiO4 Ligands. 2. Characterization of Siâ˜'Fe Aggregates by FTIR and 29Si Solid-State NMR. Langmuir, 2001, 17, 1399-1405.	1.6	77
61	Crystal Chemistry of Colloids Obtained by Hydrolysis of Fe(III) in the Presence of SiO4 Ligands. Materials Research Society Symposia Proceedings, 2000, 658, 3361.	0.1	1
62	Speciation and Crystal Chemistry of Iron(III) Chloride Hydrolyzed in the Presence of SiO4Ligands. 1. An Fe K-Edge EXAFS Study. Langmuir, 2000, 16, 4726-4731.	1.6	93