

# Clement Levard

## List of Publications by Citations

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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.

67

papers

5,187

citations

30

h-index

68

g-index

68

ext. papers

5,704

ext. citations

7.6

avg, IF

5.55

L-index

#	Paper	IF	Citations
67	Environmental transformations of silver nanoparticles: impact on stability and toxicity. <i>Environmental Science &amp; Technology</i> , <b>2012</b> , 46, 6900-14	10.3	1096
66	Sulfidation processes of PVP-coated silver nanoparticles in aqueous solution: impact on dissolution rate. <i>Environmental Science &amp; Technology</i> , <b>2011</b> , 45, 5260-6	10.3	395
65	Size-controlled dissolution of organic-coated silver nanoparticles. <i>Environmental Science &amp; Technology</i> , <b>2012</b> , 46, 752-9	10.3	338
64	Sulfidation of silver nanoparticles: natural antidote to their toxicity. <i>Environmental Science &amp; Technology</i> , <b>2013</b> , 47, 13440-8	10.3	309
63	Effect of chloride on the dissolution rate of silver nanoparticles and toxicity to E. coli. <i>Environmental Science &amp; Technology</i> , <b>2013</b> , 47, 5738-45	10.3	304
62	Fate of zinc oxide and silver nanoparticles in a pilot wastewater treatment plant and in processed biosolids. <i>Environmental Science &amp; Technology</i> , <b>2014</b> , 48, 104-12	10.3	288
61	Sulfidation of silver nanoparticles decreases Escherichia coli growth inhibition. <i>Environmental Science &amp; Technology</i> , <b>2012</b> , 46, 6992-7000	10.3	244
60	Methylation of mercury by bacteria exposed to dissolved, nanoparticulate, and microparticulate mercuric sulfides. <i>Environmental Science &amp; Technology</i> , <b>2012</b> , 46, 6950-8	10.3	164
59	Micro- and nano-X-ray computed-tomography: A step forward in the characterization of the pore network of a leached cement paste. <i>Cement and Concrete Research</i> , <b>2015</b> , 67, 138-147	10.3	153
58	Sulfidation mechanism for zinc oxide nanoparticles and the effect of sulfidation on their solubility. <i>Environmental Science &amp; Technology</i> , <b>2013</b> , 47, 2527-34	10.3	132
57	Fate of Ag-NPs in Sewage Sludge after Application on Agricultural Soils. <i>Environmental Science &amp; Technology</i> , <b>2016</b> , 50, 1759-68	10.3	130
56	Behavior of Ag nanoparticles in soil: effects of particle surface coating, aging and sewage sludge amendment. <i>Environmental Pollution</i> , <b>2013</b> , 182, 141-9	9.3	115
55	Dietary silver nanoparticles can disturb the gut microbiota in mice. <i>Particle and Fibre Toxicology</i> , <b>2016</b> , 13, 38	8.4	101
54	Nanoparticle Uptake in Plants: Gold Nanomaterial Localized in Roots of Arabidopsis thaliana by X-ray Computed Nanotomography and Hyperspectral Imaging. <i>Environmental Science &amp; Technology</i> , <b>2017</b> , 51, 8682-8691	10.3	92
53	Silver Nanoparticles and Wheat Roots: A Complex Interplay. <i>Environmental Science &amp; Technology</i> , <b>2017</b> , 51, 5774-5782	10.3	75
52	Properties of impurity-bearing ferrihydrite I. Effects of Al content and precipitation rate on the structure of 2-line ferrihydrite. <i>Geochimica Et Cosmochimica Acta</i> , <b>2012</b> , 92, 275-291	5.5	74
51	Sulfidation of copper oxide nanoparticles and properties of resulting copper sulfide. <i>Environmental Science: Nano</i> , <b>2014</b> , 1, 347-357	7.1	73

50	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
49	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
48	Ecotoxicology of silver nanoparticles and their derivatives introduced in soil with or without sewage sludge: A review of effects on microorganisms, plants and animals. <i>Environmental Pollution</i> , <b>2019</b> , 253, 578-598	9.3	58
47	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
46	Effect of phytoliths for mitigating water stress in durum wheat. <i>New Phytologist</i> , <b>2017</b> , 215, 229-239	9.8	56
45	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
44	Formation and Growth Mechanisms of Imogolite-Like Aluminogermanate Nanotubes. <i>Chemistry of Materials</i> , <b>2010</b> , 22, 2466-2473	9.6	53
43	Precipitation of nanoscale mercuric sulfides in the presence of natural organic matter: Structural properties, aggregation, and biotransformation. <i>Geochimica Et Cosmochimica Acta</i> , <b>2014</b> , 133, 204-215	5.5	50
42	Properties of impurity-bearing ferrihydrite II: Insights into the surface structure and composition of pure, Al- and Si-bearing ferrihydrite from Zn(II) sorption experiments and Zn K-edge X-ray absorption spectroscopy. <i>Geochimica Et Cosmochimica Acta</i> , <b>2013</b> , 119, 46-60	5.5	50
41	Single-step formation of micron long (OH) <sub>3</sub> Al <sub>2</sub> O <sub>3</sub> Ge(OH) imogolite-like nanotubes. <i>Chemical Communications</i> , <b>2013</b> , 49, 11284-6	5.8	50
40	Growth kinetic of single and double-walled aluminogermanate imogolite-like nanotubes: an experimental and modeling approach. <i>Physical Chemistry Chemical Physics</i> , <b>2011</b> , 13, 2682-9	3.6	43
39	Environmental exposure to TiO <sub>2</sub> nanomaterials incorporated in building material. <i>Environmental Pollution</i> , <b>2017</b> , 220, 1160-1170	9.3	36
38	Structural incorporation of iron into Ge-imogolite nanotubes: a promising step for innovative nanomaterials. <i>RSC Advances</i> , <b>2014</b> , 4, 49827-49830	3.7	33
37	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
36	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
35	Probing Ag nanoparticle surface oxidation in contact with (in)organics: an X-ray scattering and fluorescence yield approach. <i>Journal of Synchrotron Radiation</i> , <b>2011</b> , 18, 871-8	2.4	25
34	The influence of salinity on the fate and behavior of silver standardized nanomaterial and toxicity effects in the estuarine bivalve <i>Scrobicularia plana</i> . <i>Environmental Toxicology and Chemistry</i> , <b>2016</b> , 35, 2550-2561	3.8	24
33	Pb, Cu, and Zn distributions at humic acid-coated metal-oxide surfaces. <i>Geochimica Et Cosmochimica Acta</i> , <b>2016</b> , 188, 407-423	5.5	22

32	Anaerobic Digestion Alters Copper and Zinc Speciation. <i>Environmental Science &amp; Technology</i> , <b>2017</b> , 51, 10326-10334	10.3	22
31	Nanometer-long Ge-imogolite nanotubes cause sustained lung inflammation and fibrosis in rats. <i>Particle and Fibre Toxicology</i> , <b>2014</b> , 11, 67	8.4	21
30	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
29	Nanotechnology, global development in the frame of environmental risk forecasting. A necessity of interdisciplinary researches. <i>Comptes Rendus - Geoscience</i> , <b>2015</b> , 347, 35-42	1.4	18
28	Goethite, a tailor-made host for the critical metal scandium: The FeSc(1-x)OOH solid solution. <i>Geochemical Perspectives Letters</i> , 16-20	3	18
27	Differences in bulk and microscale yttrium speciation in coal combustion fly ash. <i>Environmental Sciences: Processes and Impacts</i> , <b>2018</b> , 20, 1390-1403	4.3	17
26	Integrated approaches of x-ray absorption spectroscopic and electron microscopic techniques on zinc speciation and characterization in a final sewage sludge product. <i>Journal of Environmental Quality</i> , <b>2014</b> , 43, 908-16	3.4	16
25	Competitive sorption of Pb(II) and Zn(II) on polyacrylic acid-coated hydrated aluminum-oxide surfaces. <i>Environmental Science &amp; Technology</i> , <b>2013</b> , 47, 12131-9	10.3	16
24	Elaboration of Cellulose Nanocrystal/Ge-Imogolite Nanotube Multilayered Thin Films. <i>Langmuir</i> , <b>2018</b> , 34, 3386-3394	4	13
23	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
22	How Microbial Biofilms Control the Environmental Fate of Engineered Nanoparticles?. <i>Frontiers in Environmental Science</i> , <b>2020</b> , 8,	4.8	11
21	Multi-scale X-ray computed tomography to detect and localize metal-based nanomaterials in lung tissues of in vivo exposed mice. <i>Scientific Reports</i> , <b>2018</b> , 8, 4408	4.9	11
20	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
19	Accumulation, speciation and localization of silver nanoparticles in the earthworm <i>Eisenia fetida</i> . <i>Environmental Science and Pollution Research</i> , <b>2021</b> , 28, 3756-3765	5.1	10
18	Silver Sulfidation in Thermophilic Anaerobic Digesters and Effects on Antibiotic Resistance Genes. <i>Environmental Engineering Science</i> , <b>2016</b> , 33, 1-10	2	9
17	Accelerated microwave assisted synthesis of alumino-germanate imogolite nanotubes. <i>RSC Advances</i> , <b>2016</b> , 6, 108146-108150	3.7	9
16	Geology and Mineralogy of Imogolite-Type Materials. <i>Developments in Clay Science</i> , <b>2016</b> , 49-65		9
15	Dynamics of silver nanoparticles at the solution/biofilm/mineral interface. <i>Environmental Science: Nano</i> , <b>2018</b> , 5, 2394-2405	7.1	8

14	Remote Biodegradation of Ge-Imogolite Nanotubes Controlled by the Iron Homeostasis of <i>Pseudomonas brassicacearum</i> . <i>Environmental Science &amp; Technology</i> , <b>2016</b> , 50, 7791-8	10.3	7
13	Influence of structural defects of Ge-imogolite nanotubes on their toxicity towards <i>Pseudomonas brassicacearum</i> . <i>Environmental Science: Nano</i> , <b>2016</b> , 3, 839-846	7.1	7
12	Comparison of Nanomaterials for Delivery of Double-Stranded RNA in. <i>Journal of Agricultural and Food Chemistry</i> , <b>2020</b> , 68, 7926-7934	5.7	6
11	The shape and speciation of Ag nanoparticles drive their impacts on organisms in a lotic ecosystem. <i>Environmental Science: Nano</i> , <b>2020</b> , 7, 3167-3177	7.1	6
10	Medium-term effects of Ag supplied directly or via sewage sludge to an agricultural soil on <i>Eisenia fetida</i> earthworm and soil microbial communities. <i>Chemosphere</i> , <b>2021</b> , 269, 128761	8.4	6
9	Alignment of Ge-imogolite nanotubes in isomalt with tunable inter-tube distances. <i>RSC Advances</i> , <b>2017</b> , 7, 21323-21327	3.7	5
8	Response to Comment on Sulfidation of Silver Nanoparticles: Natural Antidote to Their Toxicity□ <i>Environmental Science &amp; Technology</i> , <b>2014</b> , 48, 6051-6052	10.3	5
7	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
6	Contrasted microbial community colonization of a bauxite residue deposit marked by a complex geochemical context. <i>Journal of Hazardous Materials</i> , <b>2022</b> , 424, 127470	12.8	4
5	Silica-clay nanocomposites for the removal of antibiotics in the water usage cycle. <i>Environmental Science and Pollution Research</i> , <b>2021</b> , 28, 7564-7573	5.1	4
4	Mechanisms limiting the release of TiO <sub>2</sub> nanomaterials during photocatalytic cement alteration: the role of surface charge and porous network morphology. <i>Environmental Science: Nano</i> , <b>2019</b> , 6, 624-634	7.1	3
3	How microbial biofilms impact the interactions of Quantum Dots with mineral surfaces?. <i>NanoImpact</i> , <b>2020</b> , 19, 100247	5.6	3
2	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
1	Potential of Ligand-Promoted Dissolution at Mild pH for the Selective Recovery of Rare Earth Elements in Bauxite Residues. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2022</b> , 10, 6942-6951	8.3	0