

# Perrine Chaurand

## List of Publications by Year in descending order

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Version: 2024-02-01

60  
papers

3,648  
citations

126858

33  
h-index

138417

58  
g-index

60  
all docs

60  
docs citations

60  
times ranked

5581  
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of silicon on wheat seedlings ( <i>Triticum turgidum</i> L.) grown in hydroponics and exposed to 0 to 30 $\mu\text{M}$ Cu. <i>Planta</i> , 2015, 241, 847-860.	1.6	295
2	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> , 2015, 67, 138-147.	4.6	204
3	Concurrent Aggregation and Deposition of $\text{TiO}_2$ Nanoparticles in a Sandy Porous Media. <i>Environmental Science &amp; Technology</i> , 2010, 44, 4897-4902.	4.6	197
4	Structural Degradation at the Surface of a $\text{TiO}_2$ -Based Nanomaterial Used in Cosmetics. <i>Environmental Science &amp; Technology</i> , 2010, 44, 2689-2694.	4.6	193
5	Enhanced Adsorption of Arsenic onto Maghemite Nanoparticles: $\text{As(III)}$ as a Probe of the Surface Structure and Heterogeneity. <i>Langmuir</i> , 2008, 24, 3215-3222.	1.6	185
6	Environmental impacts of steel slag reused in road construction: A crystallographic and molecular (XANES) approach. <i>Journal of Hazardous Materials</i> , 2007, 139, 537-542.	6.5	184
7	$\text{CeO}_2$ nanoparticles induce DNA damage towards human dermal fibroblasts <i>in vitro</i> . <i>Nanotoxicology</i> , 2009, 3, 161-171.	1.6	179
8	Nanoparticle Uptake in Plants: Gold Nanomaterial Localized in Roots of <i>Arabidopsis thaliana</i> by X-ray Computed Nanotomography and Hyperspectral Imaging. <i>Environmental Science &amp; Technology</i> , 2017, 51, 8682-8691.	4.6	152
9	New Methodological Approach for the Vanadium K-Edge X-ray Absorption Near-Edge Structure Interpretation: Application to the Speciation of Vanadium in Oxide Phases from Steel Slag. <i>Journal of Physical Chemistry B</i> , 2007, 111, 5101-5110.	1.2	138
10	Environmental impact of sunscreen nanomaterials: Ecotoxicity and genotoxicity of altered $\text{TiO}_2$ nanocomposites on <i>Vicia faba</i> . <i>Environmental Pollution</i> , 2011, 159, 2515-2522.	3.7	123
11	Kinetics of steel slag leaching: Batch tests and modeling. <i>Waste Management</i> , 2011, 31, 225-235.	3.7	120
12	Ecotoxicological effects of an aged $\text{TiO}_2$ nanocomposite measured as apoptosis in the anecic earthworm <i>Lumbricus terrestris</i> after exposure through water, food and soil. <i>Environment International</i> , 2011, 37, 1105-1110.	4.8	93
13	Silver Nanoparticles and Wheat Roots: A Complex Interplay. <i>Environmental Science &amp; Technology</i> , 2017, 51, 5774-5782.	4.6	93
14	Evidence of sulfur-bound reduced copper in bamboo exposed to high silicon and copper concentrations. <i>Environmental Pollution</i> , 2014, 187, 22-30.	3.7	78
15	Effect of phytoliths for mitigating water stress in durum wheat. <i>New Phytologist</i> , 2017, 215, 229-239.	3.5	77
16	Physico-chemical Control over the Single- or Double-Wall Structure of Aluminogermanate Imogolite-like Nanotubes. <i>Journal of the American Chemical Society</i> , 2012, 134, 3780-3786.	6.6	69
17	Synergistic effects of sulfate reducing bacteria and zero valent iron on zinc removal and stability in aquifer sediment. <i>Chemical Engineering Journal</i> , 2015, 260, 83-89.	6.6	67
18	Filter-Feeding Bivalves Store and Biodeposit Colloidally Stable Gold Nanoparticles. <i>Environmental Science &amp; Technology</i> , 2011, 45, 6592-6599.	4.6	65

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19	Speciation of Cr and V within BOF steel slag reused in road constructions. <i>Journal of Geochemical Exploration</i> , 2006, 88, 10-14.	1.5	63
20	Long-term aging of a CeO <sub>2</sub> based nanocomposite used for wood protection. <i>Environmental Pollution</i> , 2014, 188, 1-7.	3.7	59
21	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> , 2012, 83, 063104.	0.6	55
22	Effects of aged TiO <sub>2</sub> nanomaterial from sunscreen on <i>Daphnia magna</i> exposed by dietary route. <i>Environmental Pollution</i> , 2012, 163, 55-61.	3.7	54
23	Increased zinc and copper availability in organic waste amended soil potentially involving distinct release mechanisms. <i>Environmental Pollution</i> , 2016, 212, 299-306.	3.7	54
24	Soil organo-mineral associations formed by co-precipitation of Fe, Si and Al in presence of organic ligands. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 260, 15-28.	1.6	51
25	Investigation of Copper Speciation in Pig Slurry by a Multitechnique Approach. <i>Environmental Science &amp; Technology</i> , 2010, 44, 6926-6932.	4.6	50
26	Mineralogy and leachability of gasified sewage sludge solid residues. <i>Journal of Hazardous Materials</i> , 2011, 191, 219-227.	6.5	49
27	Adsorption of Arsenic on Polyaluminum Granulate. <i>Environmental Science &amp; Technology</i> , 2012, 46, 7310-7317.	4.6	48
28	Environmental exposure to TiO <sub>2</sub> nanomaterials incorporated in building material. <i>Environmental Pollution</i> , 2017, 220, 1160-1170.	3.7	44
29	Effect of pH and Pressure on Uranium Removal from Drinking Water Using NF/RO Membranes. <i>Environmental Science &amp; Technology</i> , 2016, 50, 5817-5824.	4.6	41
30	Exposure of juvenile <i>Danio rerio</i> to aged TiO <sub>2</sub> nanomaterial from sunscreen. <i>Environmental Science and Pollution Research</i> , 2013, 20, 3340-3350.	2.7	38
31	Role of molting on the biodistribution of CeO <sub>2</sub> nanoparticles within <i>Daphnia pulex</i> . <i>Water Research</i> , 2013, 47, 3921-3930.	5.3	36
32	Structural incorporation of iron into Ge- <i>imogolite</i> nanotubes: a promising step for innovative nanomaterials. <i>RSC Advances</i> , 2014, 4, 49827-49830.	1.7	36
33	Screening of Native Plants Growing on a Pb/Zn Mining Area in Eastern Morocco: Perspectives for Phytoremediation. <i>Plants</i> , 2020, 9, 1458.	1.6	36
34	Nanoscale Coloristic Pigments: Upper Limits on Releases from Pigmented Plastic during Environmental Aging, In Food Contact, and by Leaching. <i>Environmental Science &amp; Technology</i> , 2017, 51, 11669-11680.	4.6	35
35	Synthesis of Ge- <i>imogolite</i> : influence of the hydrolysis ratio on the structure of the nanotubes. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 14516.	1.3	29
36	Drastic Change in Zinc Speciation during Anaerobic Digestion and Composting: Instability of Nanosized Zinc Sulfide. <i>Environmental Science &amp; Technology</i> , 2018, 52, 12987-12996.	4.6	28

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37	Salinity-dependent silver nanoparticle uptake and transformation by Atlantic killifish ( <i>Fundulus heteroclitus</i> ). <i>Environmental Science and Pollution Research</i> , 2016, 23, 5960-5968.	1.6	26
38	Microbial and mineral evolution in zero valent iron-based permeable reactive barriers during long-term operations. <i>Environmental Science and Pollution Research</i> , 2016, 23, 5960-5968.	2.7	26
39	Nanometer-long Ge-imogolite nanotubes cause sustained lung inflammation and fibrosis in rats. <i>Particle and Fibre Toxicology</i> , 2014, 11, 67.	2.8	25
40	SiC/G based anode swelling and porosity evolution in 18650 casing and in pouch cell. <i>Journal of Power Sources</i> , 2021, 514, 230552.	4.0	24
41	Influence of the Length of Imogolite-Like Nanotubes on Their Cytotoxicity and Genotoxicity toward Human Dermal Cells. <i>Chemical Research in Toxicology</i> , 2012, 25, 2513-2522.	1.7	22
42	Nanotechnology, global development in the frame of environmental risk forecasting. A necessity of interdisciplinary researches. <i>Comptes Rendus - Geoscience</i> , 2015, 347, 35-42.	0.4	21
43	Respiratory hazard of Li-ion battery components: elective toxicity of lithium cobalt oxide (LiCoO <sub>2</sub> ) particles in a mouse bioassay. <i>Archives of Toxicology</i> , 2018, 92, 1673-1684.	1.9	21
44	Environmental exposure of a simulated pond ecosystem to a CuO nanoparticle-based wood stain throughout its life cycle. <i>Environmental Science: Nano</i> , 2018, 5, 2579-2589.	2.2	19
45	Non-linear release dynamics for a CeO <sub>2</sub> nanomaterial embedded in a protective wood stain, due to matrix photo-degradation. <i>Environmental Pollution</i> , 2018, 241, 182-193.	3.7	19
46	Location and evolution of the speciation of vanadium in bitumen and model of reclaimed bituminous mixes during ageing: Can vanadium serve as a tracer of the aged and fresh parts of the reclaimed asphalt pavement mixture?. <i>Fuel</i> , 2012, 102, 423-430.	3.4	18
47	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> , 2018, 8, 4408.	1.6	17
48	Accumulation, speciation and localization of silver nanoparticles in the earthworm <i>Eisenia fetida</i> . <i>Environmental Science and Pollution Research</i> , 2021, 28, 3756-3765.	2.7	16
49	Composition and molecular scale structure of nanophases formed by precipitation of biotite weathering products. <i>Geochimica Et Cosmochimica Acta</i> , 2018, 229, 53-64.	1.6	15
50	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> , 2021, 279, 116897.	3.7	13
51	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> , 2021, 269, 128761.	4.2	12
52	How to assess trace elements bioavailability for benthic organisms in lowly to moderately contaminated coastal sediments?. <i>Marine Pollution Bulletin</i> , 2019, 140, 86-100.	2.3	11
53	Uptake patterns of critical metals in alpine plant species growing in an unimpacted natural site. <i>Chemosphere</i> , 2022, 287, 132315.	4.2	6
54	The necessity of investigating a freshwater-marine continuum using a mesocosm approach in nanosafety: The case study of TiO <sub>2</sub> MNM-based photocatalytic cement. <i>NanoImpact</i> , 2020, 20, 100254.	2.4	5

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55	Thermal cracking of CH <sub>3</sub> Cl leads to auto-catalysis of deposited coke. Catalysis Science and Technology, 2021, 11, 469-473.	2.1	4
56	Oxidative transformation of Tungsten (W) nanoparticles potentially released in aqueous and biological media in case of Tokamak (nuclear fusion) Lost of Vacuum Accident (LOVA). Comptes Rendus - Geoscience, 2020, 352, 539-558.	0.4	4
57	Study of a set of micrometeorites from Antarctica using magnetic and ESR methods coupled with micro-XRF. Journal of Magnetism and Magnetic Materials, 2008, 320, 1687-1695.	1.0	3
58	Mechanisms limiting the release of TiO <sub>2</sub> nanomaterials during photocatalytic cement alteration: the role of surface charge and porous network morphology. Environmental Science: Nano, 2019, 6, 624-634.	2.2	3
59	Colocalization analysis to understand Yttrium uptake in Saxifraga paniculata using complementary imaging technics. , 2021, , .		0
60	Exploring the Link between Cd Isotopes and Speciation in Plants: A Case Study in Solanum Species. , 2020, , .		0