

Perrine Chaurand

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.

58
papers

2,921
citations

30
h-index

54
g-index

60
ext. papers

3,268
ext. citations

7.6
avg, IF

4.79
L-index

#	Paper	IF	Citations
58	Effect of silicon on wheat seedlings (<i>Triticum turgidum</i> L.) grown in hydroponics and exposed to 0 to 30 μ M Cu. <i>Planta</i> , 2015 , 241, 847-60	4.7	219
57	Concurrent aggregation and deposition of TiO ₂ nanoparticles in a sandy porous media. <i>Environmental Science & Technology</i> , 2010 , 44, 4897-902	10.3	179
56	Structural degradation at the surface of a TiO ₂ -based nanomaterial used in cosmetics. <i>Environmental Science & Technology</i> , 2010 , 44, 2689-94	10.3	167
55	Enhanced adsorption of arsenic onto maghemite nanoparticles: As(III) as a probe of the surface structure and heterogeneity. <i>Langmuir</i> , 2008 , 24, 3215-22	4	167
54	CeO ₂ nanoparticles induce DNA damage towards human dermal fibroblasts in vitro. <i>Nanotoxicology</i> , 2009 , 3, 161-171	5.3	155
53	Environmental impacts of steel slag reused in road construction: a crystallographic and molecular (XANES) approach. <i>Journal of Hazardous Materials</i> , 2007 , 139, 537-42	12.8	155
52	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	10.3	153
51	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, 5101-10	3.4	122
50	Environmental impact of sunscreen nanomaterials: ecotoxicity and genotoxicity of altered TiO ₂ nanocomposites on <i>Vicia faba</i> . <i>Environmental Pollution</i> , 2011 , 159, 2515-22	9.3	107
49	Kinetics of steel slag leaching: Batch tests and modeling. <i>Waste Management</i> , 2011 , 31, 225-35	8.6	107
48	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 & Technology</i> , 2017 , 51, 8682-8691	10.3	92
47	Silver Nanoparticles and Wheat Roots: A Complex Interplay. <i>Environmental Science & Technology</i> , 2017 , 51, 5774-5782	10.3	75
46	Ecotoxicological effects of an aged 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, 1105-10	12.9	75
45	Evidence of sulfur-bound reduced copper in bamboo exposed to high silicon and copper concentrations. <i>Environmental Pollution</i> , 2014 , 187, 22-30	9.3	65
44	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, 3780-6	16.4	65
43	Filter-feeding bivalves store and biodeposit colloiddally stable gold nanoparticles. <i>Environmental Science & Technology</i> , 2011 , 45, 6592-9	10.3	58
42	Effect of phytoliths for mitigating water stress in durum wheat. <i>New Phytologist</i> , 2017 , 215, 229-239	9.8	56

41	Speciation of Cr and V within BOF steel slag reused in road constructions. <i>Journal of Geochemical Exploration</i> , 2006 , 88, 10-14	3.8	53
40	Long-term aging of a CeO ₂ based nanocomposite used for wood protection. <i>Environmental Pollution</i> , 2014 , 188, 1-7	9.3	51
39	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	14.7	50
38	Effects of aged TiO ₂ nanomaterial from sunscreen on <i>Daphnia magna</i> exposed by dietary route. <i>Environmental Pollution</i> , 2012 , 163, 55-61	9.3	46
37	Mineralogy and leachability of gasified sewage sludge solid residues. <i>Journal of Hazardous Materials</i> , 2011 , 191, 219-27	12.8	45
36	Investigation of copper speciation in pig slurry by a multitechnique approach. <i>Environmental Science & Technology</i> , 2010 , 44, 6926-32	10.3	44
35	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	1.7	44
34	Increased zinc and copper availability in organic waste amended soil potentially involving distinct release mechanisms. <i>Environmental Pollution</i> , 2016 , 212, 299-306	9.3	40
33	Adsorption of arsenic on polyaluminum granulate. <i>Environmental Science & Technology</i> , 2012 , 46, 7310-7	10.3	38
32	Environmental exposure to TiO ₂ nanomaterials incorporated in building material. <i>Environmental Pollution</i> , 2017 , 220, 1160-1170	9.3	36
31	Structural incorporation of iron into Ge ₂ imogolite nanotubes: a promising step for innovative nanomaterials. <i>RSC Advances</i> , 2014 , 4, 49827-49830	3.7	33
30	Exposure of juvenile <i>Danio rerio</i> to aged TiO ₂ nanomaterial from sunscreen. <i>Environmental Science and Pollution Research</i> , 2013 , 20, 3340-50	5.1	33
29	Role of molting on the biodistribution of CeO ₂ nanoparticles within <i>Daphnia pulex</i> . <i>Water Research</i> , 2013 , 47, 3921-30	12.5	32
28	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	5.5	29
27	Synthesis of Ge-imogolite: influence of the hydrolysis ratio on the structure of the nanotubes. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 14516-22	3.6	28
26	Effect of pH and Pressure on Uranium Removal from Drinking Water Using NF/RO Membranes. <i>Environmental Science & Technology</i> , 2016 , 50, 5817-24	10.3	27
25	Nanoscale Coloristic Pigments: Upper Limits on Releases from Pigmented Plastic during Environmental Aging, In Food Contact, and by Leaching. <i>Environmental Science & Technology</i> , 2017 , 51, 11669-11680	10.3	25
24	Salinity-dependent silver nanoparticle uptake and transformation by Atlantic killifish (<i>Fundulus heteroclitus</i>) embryos. <i>Nanotoxicology</i> , 2014 , 8 Suppl 1, 167-76	5.3	24

23	Nanometer-long Ge-imogolite nanotubes cause sustained lung inflammation and fibrosis in rats. <i>Particle and Fibre Toxicology</i> , 2014 , 11, 67	8.4	21
22	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, 2513-22	4	21
21	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, 5960-8	5.1	20
20	Drastic Change in Zinc Speciation during Anaerobic Digestion and Composting: Instability of Nanosized Zinc Sulfide. <i>Environmental Science & Technology</i> , 2018 , 52, 12987-12996	10.3	19
19	Nanotechnology, global development in the frame of environmental risk forecasting. A necessity of interdisciplinary researches. <i>Comptes Rendus - Geoscience</i> , 2015 , 347, 35-42	1.4	18
18	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	7.1	18
17	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	7.1	14
16	Screening of Native Plants Growing on a Pb/Zn Mining Area in Eastern Morocco: Perspectives for Phytoremediation. <i>Plants</i> , 2020 , 9,	4.5	13
15	Non-linear release dynamics for a CeO nanomaterial embedded in a protective wood stain, due to matrix photo-degradation. <i>Environmental Pollution</i> , 2018 , 241, 182-193	9.3	12
14	Respiratory hazard of Li-ion battery components: elective toxicity of lithium cobalt oxide (LiCoO) particles in a mouse bioassay. <i>Archives of Toxicology</i> , 2018 , 92, 1673-1684	5.8	11
13	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	4.9	11
12	Composition and molecular scale structure of nanophases formed by precipitation of biotite weathering products. <i>Geochimica Et Cosmochimica Acta</i> , 2018 , 229, 53-64	5.5	10
11	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	5.1	10
10	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	6.7	7
9	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	8.4	6
8	Mechanisms limiting the release of TiO ₂ nanomaterials during photocatalytic cement alteration: the role of surface charge and porous network morphology. <i>Environmental Science: Nano</i> , 2019 , 6, 624-634	7.1	3
7	Study of a set of micrometeorites from Antarctica using magnetic and ESR methods coupled with micro-XRF. <i>Journal of Magnetism and Magnetic Materials</i> , 2008 , 320, 1687-1695	2.8	3
6	SiO ₂ /G based anode swelling and porosity evolution in 18650 casing and in pouch cell. <i>Journal of Power Sources</i> , 2021 , 514, 230552	8.9	3

5	The necessity of investigating a freshwater-marine continuum using a mesocosm approach in nanosafety: The case study of TiO ₂ MNM-based photocatalytic cement. <i>NanoImpact</i> , 2020 , 20, 100254	5.6	3
4	Thermal cracking of CH ₃ Cl leads to auto-catalysis of deposited coke. <i>Catalysis Science and Technology</i> , 2021 , 11, 469-473	5.5	2
3	Oxidative transformation of Tungsten (W) nanoparticles potentially released in aqueous and biological media in case of Tokamak (nuclear fusion) Lost of Vacuum Accident (LOVA). <i>Comptes Rendus - Geoscience</i> , 2020 , 352, 539-558	1.4	1
2	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	8.3	0
1	Uptake patterns of critical metals in alpine plant species growing in an unimpaired natural site. <i>Chemosphere</i> , 2022 , 287, 132315	8.4	0