Samuel Legros

List of Publications by Citations

24 papers	1,153 citations	17 h-index	25 g-index
25 ext. papers	1,274 ext. citations	7.9 avg, IF	3.97 L-index

#	Paper	IF	Citations
24	Separation and characterization of nanoparticles in complex food and environmental samples by field-flow fractionation. *TrAC - Trends in Analytical Chemistry*, **2011**, 30, 425-436	14.6	221
23	Fate of pristine TiO2 nanoparticles and aged paint-containing TiO2 nanoparticles in lettuce crop after foliar exposure. *Journal of Hazardous Materials*, **2014**, 273, 17-26	12.8	152
22	Influence of surface functionalization and particle size on the aggregation kinetics of engineered nanoparticles. *Chemosphere*, **2012**, 87, 918-24	8.4	84
21	Validation of methods for the detection and quantification of engineered nanoparticles in food. *Food Chemistry*, **2013**, 138, 1959-66	8.5	79
20	Optimization and evaluation of asymmetric flow field-flow fractionation of silver nanoparticles. *Journal of Chromatography A*, **2013**, 1272, 116-25	4.5	78
19	Natural organic matter concentration and hydrochemistry influence aggregation kinetics of functionalized engineered nanoparticles. *Environmental Science & Technology*, **2013**, 47, 4113-20	10.3	76
18	The potential of TiO2 nanoparticles as carriers for cadmium uptake in Lumbriculus variegatus and Daphnia magna. *Aquatic Toxicology*, **2012**, 118-119, 1-8	5.1	66
17	First steps towards a generic sample preparation scheme for inorganic engineered nanoparticles in a complex matrix for detection, characterization, and quantification by asymmetric flow-field flow fractionation coupled to multi-angle light scattering and ICP-MS. *Journal of Analytical Atomic Spectrometry*, **2015**, 30, 1286-1296	3.7	60
16	Investigation of copper speciation in pig slurry by a multitechnique approach. *Environmental Science & Technology*, **2010**, 44, 6926-32	10.3	44
15	Increased zinc and copper availability in organic waste amended soil potentially involving distinct release mechanisms. *Environmental Pollution*, **2016**, 212, 299-306	9.3	40
14	Innovative combination of spectroscopic techniques to reveal nanoparticle fate in a crop plant. *Spectrochimica Acta, Part B: Atomic Spectroscopy*, **2016**, 119, 17-24	3.1	39
13	Fate and behaviour of Cu and Zn from pig slurry spreading in a tropical water–soil–plant system. *Agriculture, Ecosystems and Environment*, **2013**, 164, 70-79	5.7	36
12	Evidence that Soil Properties and Organic Coating Drive the Phytoavailability of Cerium Oxide Nanoparticles. *Environmental Science & Technology*, **2017**, 51, 9756-9764	10.3	35
11	Combining size fractionation, scanning electron microscopy, and X-ray absorption spectroscopy to probe zinc speciation in pig slurry. *Journal of Environmental Quality*, **2010**, 39, 531-40	3.4	24
10	Anaerobic Digestion Alters Copper and Zinc Speciation. *Environmental Science & Technology*, **2017**, 51, 10326-10334	10.3	22
9	Characterisation of organic matter from organo-mineral complexes in an Andosol from Reunion Island. *Journal of Analytical and Applied Pyrolysis*, **2013**, 99, 92-100	6	20
8	Drastic Change in Zinc Speciation during Anaerobic Digestion and Composting: Instability of Nanosized Zinc Sulfide. *Environmental Science & Technology*, **2018**, 52, 12987-12996	10.3	19

7	Zinc fate in animal husbandry systems. *Metallomics*, **2014**, 6, 1999-2009	4.5	15
6	Combining spatially resolved hydrochemical data with in-vitro nanoparticle stability testing: assessing environmental behavior of functionalized gold nanoparticles on a continental scale. *Environment International*, **2013**, 59, 53-62	12.9	14
5	Radical change of Zn speciation in pig slurry amended soil: Key role of nano-sized sulfide particles. *Environmental Pollution*, **2017**, 222, 495-503	9.3	12
4	Elemental recoveries for metal oxide nanoparticles analysed by direct injection ICP-MS: influence of particle size, agglomeration state and sample matrix. *Journal of Analytical Atomic Spectrometry*, **2014**, 29, 2294-2301	3.7	9
3	Zinc Speciation in Organic Waste Drives Its Fate in Amended Soils. *Environmental Science & Technology*, **2020**, 54, 12034-12041	10.3	6
2	Redistribution of Zn towards light-density fractions and potentially mobile phases in a long-term manure-amended clayey soil. *Geoderma*, **2021**, 394, 115044	6.7	1
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	9.3	0