Armand Masion

List of Publications by Year
in descending order

70 papers	3,937 citations	126708 33 h-index	118652 62 g-index
71 all docs	71 docs citations	71 times ranked	5278 citing authors

#	Article	IF	Citations
1	The SERENADE project; a step forward in the safe by design process of nanomaterials: The benefits of a diverse and interdisciplinary approach. Nano Today, 2021, 37, 101065.	6.2	7
2	Robustness of Indoor Aquatic Mesocosm Experimentations and Data Reusability to Assess the Environmental Risks of Nanomaterials. Frontiers in Environmental Science, 2021, 9, .	1.5	4
3	The SERENADE project â€“ A step forward in the Safe by Design process of nanomaterials: Moving towards a product-oriented approach. Nano Today, 2021, 39, 101238.	6.2	1
4	Aquatic Mesocosm Strategies for the Environmental Fate and Risk Assessment of Engineered Nanomaterials. Environmental Science & Technology, 2021, 55, 16270-16282.	4.6	10
5	The necessity of investigating a freshwater-marine continuum using a mesocosm approach in nanosafety: The case study of TiO2 MNM-based photocatalytic cement. NanoImpact, 2020, 20, 100254.	2.4	5
6	Safe(r) by design implementation in the nanotechnology industry. NanoImpact, 2020, 20, 100267.	2.4	22
7	Optimizing the dispersion of nanoparticulate TiO2-based UV filters in a non-polar medium used in sunscreen formulations â€“ The roles of surfactants and particle coatings. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2020, 599, 124792.	2.3	14
8	Comparison of Nanomaterials for Delivery of Double-Stranded RNA inCaenorhabditis elegans. Journal of Agricultural and Food Chemistry, 2020, 68, 7926-7934.	2.4	10
9	Aqueous aging of a silica coated TiO₂ UV filter used in sunscreens: investigations at the molecular scale with dynamic nuclear polarization NMR. RSC Advances, 2020, 10, 8266-8274.	1.7	13
10	Multivariate analysis of the exposure and hazard of ceria nanomaterials in indoor aquatic mesocosms. Environmental Science: Nano, 2020, 7, 1661-1669.	2.2	4
11	Monitoring the Environmental Aging of Nanomaterials: An Opportunity for Mesocosm Testing?. Materials, 2019, 12, 2447.	1.3	10
12	Contribution of mesocosm testing to a single-step and exposure-driven environmental risk assessment of engineered nanomaterials. NanoImpact, 2019, 13, 66-69.	2.4	26
13	Environmental exposure of a simulated pond ecosystem to a CuO nanoparticle-based wood stain throughout its life cycle. Environmental Science: Nano, 2018, 5, 2579-2589.	2.2	19
14	Non-linear release dynamics for a CeO2 nanomaterial embedded in a protective wood stain, due to matrix photo-degradation. Environmental Pollution, 2018, 241, 182-193.	3.7	19
15	When the carbon being dated is not what you think it is: Insights from phytolith carbon research. Quaternary Science Reviews, 2018, 197, 162-174.	1.4	11
16	Alignment of Ge-imogolite nanotubes in isomalt with tunable inter-tube distances. RSC Advances, 2017, 7, 21323-21327.	1.7	6
17	Dynamic Nuclear Polarization NMR as a new tool to investigate the nature of organic compounds occluded in plant silica particles. Scientific Reports, 2017, 7, 3430.	1.6	4
18	Nanoparticle Uptake in Plants: Gold Nanomaterial Localized in Roots of <i>Arabidopsis thaliana</i> by X-ray Computed Nanotomography and Hyperspectral Imaging. Environmental Science & Technology, 2017, 51, 8682-8691.	4.6	152

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19	Remote Biodegradation of Geâ€“Imogolite Nanotubes Controlled by the Iron Homeostasis of <i>Pseudomonas brassicacearum</i>. Environmental Science & Technology, 2016, 50, 7791-7798.	4.6	8
20	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
21	Fate of Manufactured Nanoparticles in Aqueous Environment. , 2016, , 1153-1168.		0
22	Nanotechnology, global development in the frame of environmental risk forecasting. A necessity of interdisciplinary researches. Comptes Rendus - Geoscience, 2015, 347, 35-42.	0.4	21
23	Long-term aging of a CeO2 based nanocomposite used for wood protection. Environmental Pollution, 2014, 188, 1-7.	3.7	59
24	Inhibition of sulfate reducing bacteria in aquifer sediment by iron nanoparticles. Water Research, 2014, 51, 64-72.	5.3	96
25	Transformation of Pristine and Citrate-Functionalized CeO₂ Nanoparticles in a Laboratory-Scale Activated Sludge Reactor. Environmental Science & Technology, 2014, 48, 7289-7296.	4.6	61
26	Isolated cell walls exhibit cation binding properties distinct from those of plant roots. Plant and Soil, 2014, 381, 367-379.	1.8	24
27	An adaptable mesocosm platform for performing integrated assessments of nanomaterial risk in complex environmental systems. Scientific Reports, 2014, 4, 5608.	1.6	45
28	Fate of Manufactured Nanoparticles in Aqueous Environment. , 2014, , 1-17.		0
29	Characterisation of organic matter from organo-mineral complexes in an Andosol from Reunion Island. Journal of Analytical and Applied Pyrolysis, 2013, 99, 92-100.	2.6	26
30	Environmental fate of nanoparticles: physical chemical and biological aspects Â– a few snapshots. International Journal of Nanotechnology, 2012, 9, 167.	0.1	2
31	Influence of the Length of Imogolite-Like Nanotubes on Their Cytotoxicity and Genotoxicity toward Human Dermal Cells. Chemical Research in Toxicology, 2012, 25, 2513-2522.	1.7	22
32	Early-stage precipitation kinetics of zinc sulfide nanoclusters forming in the presence of cysteine. Chemical Geology, 2012, 329, 10-17.	1.4	20
33	Is There a Trojan-Horse Effect during Magnetic Nanoparticles and Metalloid Cocontamination of Human Dermal Fibroblasts?. Environmental Science & Technology, 2012, 46, 10789-10796.	4.6	13
34	Analysis of engineered nanomaterials in complex matrices (environment and biota): General considerations and conceptual case studies. Environmental Toxicology and Chemistry, 2012, 31, 32-49.	2.2	390
35	Growth kinetic of single and double-walled aluminogermanate imogolite-like nanotubes: an experimental and modeling approach. Physical Chemistry Chemical Physics, 2011, 13, 2682-2689.	1.3	47
36	Manufactured metal and metal-oxide nanoparticles: Properties and perturbing mechanisms of their biological activity in ecosystems. Comptes Rendus - Geoscience, 2011, 343, 168-176.	0.4	43

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37	TiO2-based nanoparticles released in water from commercialized sunscreens in a life-cycle perspective: Structures and quantities. Environmental Pollution, 2011, 159, 1543-1550.	3.7	166
38	Surface Reactivity of Manufactured Nanoparticles. , 2011, , 269-290.		5
39	Life Cycle Models and Risk Assessment. , 2011, , 397-417.		0
40	Structural Degradation at the Surface of a TiO₂-Based Nanomaterial Used in Cosmetics. Environmental Science & Technology, 2010, 44, 2689-2694.	4.6	193
41	Investigation of Copper Speciation in Pig Slurry by a Multitechnique Approach. Environmental Science & Technology, 2010, 44, 6926-6932.	4.6	50
42	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
43	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
44	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
45	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
46	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
47	CeO₂nanoparticles induce DNA damage towards human dermal fibroblasts<i>in vitro</i>. Nanotoxicology, 2009, 3, 161-171.	1.6	179
48	Hydration and Dispersion of C₆₀ in Aqueous Systems: The Nature of Waterâ˜'Fullerene Interactions. Langmuir, 2009, 25, 11232-11235.	1.6	103
49	Enhanced Adsorption of Arsenic onto Maghemites Nanoparticles:â€‰ As(III) as a Probe of the Surface Structure and Heterogeneity. Langmuir, 2008, 24, 3215-3222.	1.6	185
50	Relation between the Redox State of Iron-Based Nanoparticles and Their Cytotoxicity toward <i>Escherichia coli</i>. Environmental Science & Technology, 2008, 42, 6730-6735.	4.6	487
51	Synthesis of Large Quantities of Single-Walled Aluminogermanate Nanotube. Journal of the American Chemical Society, 2008, 130, 5862-5863.	6.6	72
52	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
53	Hydrolysis of Iron(II) Chloride under Anoxic Conditions and Influence of SiO4Ligands. Langmuir, 2002, 18, 4292-4299.	1.6	19
54	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

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55	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
56	X-ray Absorption Spectroscopy Study of Immobilization Processes for Heavy Metals in Calcium Silicate Hydrates. 2. Zinc. Langmuir, 2001, 17, 3658-3665.	1.6	55
57	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
58	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
59	X-ray Absorption Spectroscopy Study of Immobilization Processes for Heavy Metals in Calcium Silicate Hydrates: 1. Case of Lead. Langmuir, 2000, 16, 9900-9906.	1.6	55
60	Coagulation-Flocculation of Natural Organic Matter with Al Salts:Â Speciation and Structure of the Aggregates. Environmental Science & Technology, 2000, 34, 3242-3246.	4.6	95
61	Removal of Natural Organic Matter by Coagulation-Flocculation:Â A Pyrolysis-GC-MS Study. Environmental Science & Technology, 1999, 33, 3027-3032.	4.6	78
62	Iron speciation in natural organic matter colloids. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 1998, 136, 11-19.	2.3	57
63	Nucleation and Growth Mechanisms of Iron Oxyhydroxides in the Presence of PO4Ions. 4. Structure of the Aggregates. Langmuir, 1997, 13, 3886-3889.	1.6	18
64	Nucleation and Growth Mechanisms of Fe Oxyhydroxide in the Presence of PO4Ions. 2. P K-Edge EXAFS Study. Langmuir, 1997, 13, 1827-1834.	1.6	94
65	Nucleation and Growth Mechanisms of Iron Oxyhydroxides in the Presence of PO4Ions. 3. Speciation of Fe by Small Angle X-ray Scattering. Langmuir, 1997, 13, 3882-3885.	1.6	24
66	Structure and Mechanisms of Formation of FeOOH(NO3) Oligomers in the Early Stages of Hydrolysis. Langmuir, 1997, 13, 3240-3246.	1.6	59
67	Nucleation and Growth Mechanisms of Fe Oxyhydroxide in the Presence of PO4Ions. 1. Fe K-Edge EXAFS Study. Langmuir, 1996, 12, 6701-6707.	1.6	107
68	Formation of amorphous precipitates from aluminum-organic ligands solutions: macroscopic and molecular study. Journal of Non-Crystalline Solids, 1994, 171, 191-200.	1.5	26
69	Aluminum(III) speciation with hydroxy carboxylic acids. Aluminum-27 NMR study. Environmental Science & Technology, 1993, 27, 2511-2516.	4.6	78
70	Aluminum(III) speciation with acetate and oxalate. A potentiometric and aluminum-27 NMR study. Environmental Science & Technology, 1991, 25, 1553-1559.	4.6	56