Armand Masion

List of Publications by Year
in descending order

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Version: 2024-02-01

70 papers	3,937 citations	126858 33 h-index	114418 63 g-index
71 all docs	71 docs citations	71 times ranked	5278 citing authors

#	Article	IF	Citations
1	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
2	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
3	Structural Degradation at the Surface of a TiO₂-Based Nanomaterial Used in Cosmetics. Environmental Science & Technology, 2010, 44, 2689-2694.	4.6	193
4	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
5	CeO₂nanoparticles induce DNA damage towards human dermal fibroblasts<i>in vitro</i>. Nanotoxicology, 2009, 3, 161-171.	1.6	179
6	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
7	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
8	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
9	Hydration and Dispersion of C₆₀ in Aqueous Systems: The Nature of Waterâˆ'Fullerene Interactions. Langmuir, 2009, 25, 11232-11235.	1.6	103
10	Inhibition of sulfate reducing bacteria in aquifer sediment by iron nanoparticles. Water Research, 2014, 51, 64-72.	5.3	96
11	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
12	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
13	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
14	Aluminum(III) speciation with hydroxy carboxylic acids. Aluminum-27 NMR study. Environmental Science & Technology, 1993, 27, 2511-2516.	4.6	78
15	Removal of Natural Organic Matter by Coagulation-Flocculation:Â A Pyrolysis-GC-MS Study. Environmental Science & Technology, 1999, 33, 3027-3032.	4.6	78
16	Speciation and Crystal Chemistry of Fe(III) Chloride Hydrolyzed in the Presence of SiO4 Ligands. 2. Characterization of Siâˆ'Fe Aggregates by FTIR and 29Si Solid-State NMR. Langmuir, 2001, 17, 1399-1405.	1.6	77
17	Synthesis of Large Quantities of Single-Walled Aluminogermanate Nanotube. Journal of the American Chemical Society, 2008, 130, 5862-5863.	6.6	72
18	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

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19	Structure and Mechanisms of Formation of FeOOH(NO3) Oligomers in the Early Stages of Hydrolysis. Langmuir, 1997, 13, 3240-3246.	1.6	59
20	Long-term aging of a CeO2 based nanocomposite used for wood protection. Environmental Pollution, 2014, 188, 1-7.	3.7	59
21	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
22	Iron speciation in natural organic matter colloids. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 1998, 136, 11-19.	2.3	57
23	Aluminum(III) speciation with acetate and oxalate. A potentiometric and aluminum-27 NMR study. Environmental Science & Technology, 1991, 25, 1553-1559.	4.6	56
24	Evidence of Double-Walled Alâˆ’Ge Imogolite-Like Nanotubes. A Cryo-TEM and SAXS Investigation. Journal of the American Chemical Society, 2010, 132, 1208-1209.	6.6	56
25	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
26	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
27	Investigation of Copper Speciation in Pig Slurry by a Multitechnique Approach. Environmental Science & Technology, 2010, 44, 6926-6932.	4.6	50
28	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
29	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
30	An adaptable mesocosm platform for performing integrated assessments of nanomaterial risk in complex environmental systems. Scientific Reports, 2014, 4, 5608.	1.6	45
31	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
32	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
33	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
34	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
35	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
36	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

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37	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
38	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
39	Isolated cell walls exhibit cation binding properties distinct from those of plant roots. Plant and Soil, 2014, 381, 367-379.	1.8	24
40	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
41	Safe(r) by design implementation in the nanotechnology industry. NanoImpact, 2020, 20, 100267.	2.4	22
42	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
43	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
44	Early-stage precipitation kinetics of zinc sulfide nanoclusters forming in the presence of cysteine. Chemical Geology, 2012, 329, 10-17.	1.4	20
45	Hydrolysis of Iron(II) Chloride under Anoxic Conditions and Influence of SiO4Ligands. Langmuir, 2002, 18, 4292-4299.	1.6	19
46	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
47	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
48	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
49	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
50	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
51	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
52	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
53	Monitoring the Environmental Aging of Nanomaterials: An Opportunity for Mesocosm Testing?. Materials, 2019, 12, 2447.	1.3	10
54	Comparison of Nanomaterials for Delivery of Double-Stranded RNA inCaenorhabditis elegans. Journal of Agricultural and Food Chemistry, 2020, 68, 7926-7934.	2.4	10

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55	Aquatic Mesocosm Strategies for the Environmental Fate and Risk Assessment of Engineered Nanomaterials. Environmental Science & Technology, 2021, 55, 16270-16282.	4.6	10
56	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
57	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
58	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
59	Alignment of Ge-imogolite nanotubes in isomalt with tunable inter-tube distances. RSC Advances, 2017, 7, 21323-21327.	1.7	6
60	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
61	Surface Reactivity of Manufactured Nanoparticles. , 2011, , 269-290.		5
62	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
63	Multivariate analysis of the exposure and hazard of ceria nanomaterials in indoor aquatic mesocosms. Environmental Science: Nano, 2020, 7, 1661-1669.	2.2	4
64	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
65	Environmental fate of nanoparticles: physical chemical and biological aspects Â– a few snapshots. International Journal of Nanotechnology, 2012, 9, 167.	0.1	2
66	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
67	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
68	Life Cycle Models and Risk Assessment. , 2011, , 397-417.		0
69	Fate of Manufactured Nanoparticles in Aqueous Environment. , 2014, , 1-17.		0
70	Fate of Manufactured Nanoparticles in Aqueous Environment. , 2016, , 1153-1168.		0