Jerome Rose

List of Publications by Year in Descending Order

204 papers	11,644 citations	54 h-index	102 g-index
217 ext. papers	12,688 ext. citations	6.7 avg, IF	6 L-index

#	Paper	IF	Citations
204	Potential of Ligand-Promoted Dissolution at Mild pH for the Selective Recovery of Rare Earth Elements in Bauxite Residues. *ACS Sustainable Chemistry and Engineering*, **2022**, 10, 6942-6951	8.3	0
203	Aquatic Mesocosm Strategies for the Environmental Fate and Risk Assessment of Engineered Nanomaterials. *Environmental Science & Technology*, **2021**,	10.3	1
202	In situ determination of engineered nanomaterial aggregation state in a cosmetic emulsion toward safer-by-design products. *Environmental Science: Nano*, **2021**, 8, 3546-3559	7.1	1
201	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	17.9	4
200	Robustness of Indoor Aquatic Mesocosm Experimentations and Data Reusability to Assess the Environmental Risks of Nanomaterials. *Frontiers in Environmental Science*, **2021**, 9,	4.8	1
199	X-ray absorption spectroscopy evidence of sulfur-bound cadmium in the Cd-hyperaccumulator Solanum nigrum and the non-accumulator Solanum melongena. *Environmental Pollution*, **2021**, 279, 116897	9.3	0
198	MESOCOSM: A mesocosm database management system for environmental nanosafety.. *NanoImpact*, **2021**, 21, 100288	5.6	2
197	In Vitro Co-Exposure to CeO Nanomaterials from Diesel Engine Exhaust and Benzo()Pyrene Induces Additive DNA Damage in Sperm and Cumulus Cells but Not in Oocytes. *Nanomaterials*, **2021**, 11,	5.4	3
196	The SERENADE project A step forward in the Safe by Design process of nanomaterials: Moving towards a product-oriented approach. *Nano Today*, **2021**, 39, 101238	17.9	1
195	Anthropogenic Release and Distribution of Titanium Dioxide Particles in a River Downstream of a Nanomaterial Manufacturer Industrial Site. *Frontiers in Environmental Science*, **2020**, 8,	4.8	14
194	Multivariate analysis of the exposure and hazard of ceria nanomaterials in indoor aquatic mesocosms. *Environmental Science: Nano*, **2020**, 7, 1661-1669	7.1	3
193	Colonisation of finfish substrate inhabited by black soldier fly larvae by blow flies, bacteria, and fungi. *Journal of Insects As Food and Feed*, **2020**, 6, 291-304	4.4	4
192	Harmonizing across environmental nanomaterial testing media for increased comparability of nanomaterial datasets. *Environmental Science: Nano*, **2020**, 7, 13-36	7.1	23
191	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	5.6	3
190	Safe(r) by design implementation in the nanotechnology industry. *NanoImpact*, **2020**, 20, 100267	5.6	16
189	CeO Nanomaterials from Diesel Engine Exhaust Induce DNA Damage and Oxidative Stress in Human and Rat Sperm In Vitro. *Nanomaterials*, **2020**, 10,	5.4	4
188	Ontology-based NLP information extraction to enrich nanomaterial environmental exposure database. *Procedia Computer Science*, **2020**, 176, 360-369	1.6	3

187	The shape and speciation of Ag nanoparticles drive their impacts on organisms in a lotic ecosystem. *Environmental Science: Nano*, **2020**, 7, 3167-3177	7.1	6
186	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	1.4	1
185	Monitoring the Environmental Aging of Nanomaterials: An Opportunity for Mesocosm Testing?. *Materials*, **2019**, 12,	3.5	7
184	In Vitro Analysis of the Effects of ITER-Like Tungsten Nanoparticles: Cytotoxicity and Epigenotoxicity in BEAS-2B Cells. *Nanomaterials*, **2019**, 9,	5.4	5
183	Mechanisms limiting the release of TiO2 nanomaterials during photocatalytic cement alteration: the role of surface charge and porous network morphology. *Environmental Science: Nano*, **2019**, 6, 624-634	7.1	3
182	Calcium coordination environment in precursor species to calcium carbonate mineral formation. *Geochimica Et Cosmochimica Acta*, **2019**, 259, 344-357	5.5	7
181	Design of model tokamak particles for future toxicity studies: Morphology and physical characterization. *Fusion Engineering and Design*, **2019**, 145, 60-65	1.7	3
180	Soil organo-mineral associations formed by co-precipitation of Fe, Si and Al in presence of organic ligands. *Geochimica Et Cosmochimica Acta*, **2019**, 260, 15-28	5.5	29
179	Contribution of mesocosm testing to a single-step and exposure-driven environmental risk assessment of engineered nanomaterials. *NanoImpact*, **2019**, 13, 66-69	5.6	20
178	Elaboration of Cellulose Nanocrystal/Ge-Imogolite Nanotube Multilayered Thin Films. *Langmuir*, **2018**, 34, 3386-3394	4	13
177	The effect of surface modification of microfibrillated cellulose (MFC) by acid chlorides on the structural and thermomechanical properties of biopolyamide 4.10 nanocomposites. *Industrial Crops and Products*, **2018**, 116, 97-108	5.9	18
176	Composition and molecular scale structure of nanophases formed by precipitation of biotite weathering products. *Geochimica Et Cosmochimica Acta*, **2018**, 229, 53-64	5.5	10
175	Very low concentration of cerium dioxide nanoparticles induce DNA damage, but no loss of vitality, in human spermatozoa. *Toxicology in Vitro*, **2018**, 50, 236-241	3.6	21
174	Transformations of Nanoenabled Copper Formulations Govern Release, Antifungal Effectiveness, and Sustainability throughout the Wood Protection Lifecycle. *Environmental Science & Technology*, **2018**, 52, 1128-1138	10.3	22
173	Respiratory hazard of Li-ion battery components: elective toxicity of lithium cobalt oxide (LiCoO) particles in a mouse bioassay. *Archives of Toxicology*, **2018**, 92, 1673-1684	5.8	11
172	Multi-scale X-ray computed tomography to detect and localize metal-based nanomaterials in lung tissues of in vivo exposed mice. *Scientific Reports*, **2018**, 8, 4408	4.9	11
171	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	7.1	14
170	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

169	Non-linear release dynamics for a CeO nanomaterial embedded in a protective wood stain, due to matrix photo-degradation. *Environmental Pollution*, **2018**, 241, 182-193	9.3	12
168	SERENADE: safer and ecodesign research and education applied to nanomaterial development, the new generation of materials safer by design. *Environmental Science: Nano*, **2017**, 4, 526-538	7.1	19
167	Enhanced transportability of zero valent iron nanoparticles in aquifer sediments: surface modifications, reactivity, and particle traveling distances. *Environmental Science and Pollution Research*, **2017**, 24, 9269-9277	5.1	20
166	Alignment of Ge-imogolite nanotubes in isomalt with tunable inter-tube distances. *RSC Advances*, **2017**, 7, 21323-21327	3.7	5
165	Pulmonary exposure to metallic nanomaterials during pregnancy irreversibly impairs lung development of the offspring. *Nanotoxicology*, **2017**, 11, 484-495	5.3	29
164	Nanoscale Coloristic Pigments: Upper Limits on Releases from Pigmented Plastic during Environmental Aging, In Food Contact, and by Leaching. *Environmental Science & Technology*, **2017**, 51, 11669-11680	10.3	25
163	3D Characterization of Silicon Based Electrode Material for Advanced Lithium-Ion Storage Technologies. *Microscopy and Microanalysis*, **2017**, 23, 2026-2027	0.5	1
162	High-Energy Resolution Fluorescence Detected X-Ray Absorption Spectroscopy: A Powerful New Structural Tool in Environmental Biogeochemistry Sciences. *Journal of Environmental Quality*, **2017**, 46, 1146-1157	3.4	35
161	Structural and physicalchemical behavior of a CeO2 nanoparticle based diesel additive during combustion and environmental release. *Environmental Science: Nano*, **2017**, 4, 1974-1980	7.1	12
160	Regulatory relevant and reliable methods and data for determining the environmental fate of manufactured nanomaterials. *NanoImpact*, **2017**, 8, 1-10	5.6	47
159	Nanoparticle Uptake in Plants: Gold Nanomaterial Localized in Roots of Arabidopsis thaliana by X-ray Computed Nanotomography and Hyperspectral Imaging. *Environmental Science & Technology*, **2017**, 51, 8682-8691	10.3	92
158	Environmental exposure to TiO nanomaterials incorporated in building material. *Environmental Pollution*, **2017**, 220, 1160-1170	9.3	36
157	3D Microanalysis of Porous Copper Using FIB-Tomography in Combination with X-ray Computed Tomography. *Microscopy and Microanalysis*, **2017**, 23, 254-255	0.5	2
156	Remote Biodegradation of Ge-Imogolite Nanotubes Controlled by the Iron Homeostasis of Pseudomonas brassicacearum. *Environmental Science & Technology*, **2016**, 50, 7791-8	10.3	7
155	Influence of structural defects of Ge-imogolite nanotubes on their toxicity towards Pseudomonas brassicacearum. *Environmental Science: Nano*, **2016**, 3, 839-846	7.1	7
154	Design Defines the Effects of Nanoceria at a Low Dose on Soil Microbiota and the Potentiation of Impacts by the Canola Plant. *Environmental Science & Technology*, **2016**, 50, 6892-901	10.3	18
153	Microbial Sulfate Reduction Enhances Arsenic Mobility Downstream of Zerovalent-Iron-Based Permeable Reactive Barrier. *Environmental Science & Technology*, **2016**, 50, 7610-7	10.3	43
152	Arsenate uptake by Al nanoclusters and other Al-based sorbents during water treatment. *Water Research*, **2016**, 88, 844-851	12.5	25

151	Meeting the Needs for Released Nanomaterials Required for Further Testing-The SUN Approach. *Environmental Science & Technology*, **2016**, 50, 2747-53	10.3	49
150	Size fractionation of elements and nanoparticles in natural water by both dead-end and tangential flow filtration. *Desalination and Water Treatment*, **2016**, 57, 8194-8203		
149	Isotopically exchangeable Al in coastal lowland acid sulfate soils. *Science of the Total Environment*, **2016**, 542, 129-35	10.2	1
148	Microbial and mineral evolution in zero valent iron-based permeable reactive barriers during long-term operations. *Environmental Science and Pollution Research*, **2016**, 23, 5960-8	5.1	20
147	Cerium dioxide nanoparticles affect in vitro fertilization in mice. *Nanotoxicology*, **2016**, 10, 111-7	5.3	37
146	Accelerated microwave assisted synthesis of alumino-germanate imogolite nanotubes. *RSC Advances*, **2016**, 6, 108146-108150	3.7	9
145	Aggregation and sedimentation of magnetite nanoparticle clusters. *Environmental Science: Nano*, **2016**, 3, 567-577	7.1	62
144	Are interactions between organic compounds and nanoscale weathering minerals the key drivers of carbon storage in soils?. *Environmental Science & Technology*, **2015**, 49, 3997-8	10.3	39
143	Nanotechnology, global development in the frame of environmental risk forecasting. A necessity of interdisciplinary researches. *Comptes Rendus - Geoscience*, **2015**, 347, 35-42	1.4	18
142	Chronic dosing of a simulated pond ecosystem in indoor aquatic mesocosms: fate and transport of CeO2 nanoparticles. *Environmental Science: Nano*, **2015**, 2, 653-663	7.1	38
141	DNA damage and oxidative stress induced by CeO2 nanoparticles in human dermal fibroblasts: Evidence of a clastogenic effect as a mechanism of genotoxicity. *Nanotoxicology*, **2015**, 9, 696-705	5.3	44
140	Synergistic effects of sulfate reducing bacteria and zero valent iron on zinc removal and stability in aquifer sediment. *Chemical Engineering Journal*, **2015**, 260, 83-89	14.7	50
139	Micro- and nano-X-ray computed-tomography: A step forward in the characterization of the pore network of a leached cement paste. *Cement and Concrete Research*, **2015**, 67, 138-147	10.3	153
138	Application of membrane processes in fractionation of elements in river water. *Water Science and Technology*, **2015**, 72, 2277-90	2.2	1
137	Surface Properties (Physical and Chemical) and Related Reactions: Characterization via a Multi-Technique Approach. *Frontiers of Nanoscience*, **2015**, 8, 217-243	0.7	2
136	Long-term aging of a CeO(2) based nanocomposite used for wood protection. *Environmental Pollution*, **2014**, 188, 1-7	9.3	51
135	Inhibition of sulfate reducing bacteria in aquifer sediment by iron nanoparticles. *Water Research*, **2014**, 51, 64-72	12.5	83
134	Structural incorporation of iron into Ge□mogolite nanotubes: a promising step for innovative nanomaterials. *RSC Advances*, **2014**, 4, 49827-49830	3.7	33

133	Aged TiO2-based nanocomposite used in sunscreens produces singlet oxygen under long-wave UV and sensitizes Escherichia coli to cadmium. *Environmental Science & Technology*, **2014**, 48, 5245-53	10.3	35
132	Transfer, transformation, and impacts of ceria nanomaterials in aquatic mesocosms simulating a pond ecosystem. *Environmental Science & Technology*, **2014**, 48, 9004-13	10.3	78
131	Salinity-dependent silver nanoparticle uptake and transformation by Atlantic killifish (Fundulus heteroclitus) embryos. *Nanotoxicology*, **2014**, 8 Suppl 1, 167-76	5.3	24
130	Toxicity evaluation of manufactured CeO2 nanoparticles before and after alteration: combined physicochemical and whole-genome expression analysis in Caco-2 cells. *BMC Genomics*, **2014**, 15, 700	4.5	31
129	An adaptable mesocosm platform for performing integrated assessments of nanomaterial risk in complex environmental systems. *Scientific Reports*, **2014**, 4, 5608	4.9	34
128	Nanometer-long Ge-imogolite nanotubes cause sustained lung inflammation and fibrosis in rats. *Particle and Fibre Toxicology*, **2014**, 11, 67	8.4	21
127	Molecular insights of oxidation process of iron nanoparticles: spectroscopic, magnetic, and microscopic evidence. *Environmental Science & Technology*, **2014**, 48, 13888-94	10.3	73
126	Exposure of juvenile Danio rerio to aged TiO□nanomaterial from sunscreen. *Environmental Science and Pollution Research*, **2013**, 20, 3340-50	5.1	33
125	An overview of solid/liquid separation methods and size fractionation techniques for engineered nanomaterials in aquatic environment. *Environmental Technology Reviews*, **2013**, 2, 55-70	7.7	15
124	Role of molting on the biodistribution of CeO2 nanoparticles within Daphnia pulex. *Water Research*, **2013**, 47, 3921-30	12.5	32
123	Single-step formation of micron long (OH)3Al2O3Ge(OH) imogolite-like nanotubes. *Chemical Communications*, **2013**, 49, 11284-6	5.8	50
122	Protein corona formation for nanomaterials and proteins of a similar size: hard or soft corona?. *Nanoscale*, **2013**, 5, 1658-68	7.7	110
121	Sulfur and oxygen isotope tracing in zero valent iron based In situ remediation system for metal contaminants. *Chemosphere*, **2013**, 90, 1366-71	8.4	17
120	Preparation of amino-functionalized silica in aqueous conditions. *Applied Surface Science*, **2013**, 266, 155-160	6.7	29
119	Sorption of arsenite, arsenate, and thioarsenates to iron oxides and iron sulfides: a kinetic and spectroscopic investigation. *Environmental Science & Technology*, **2013**, 47, 5652-9	10.3	136
118	Ultrastructural interactions and genotoxicity assay of cerium dioxide nanoparticles on mouse oocytes. *International Journal of Molecular Sciences*, **2013**, 14, 21613-28	6.3	46
117	Arsenic binding to organic and inorganic sulfur species during microbial sulfate reduction: a sediment flow-through reactor experiment. *Environmental Chemistry*, **2013**, 10, 285	3.2	35
116	Exposure to cerium dioxide nanoparticles differently affect swimming performance and survival in two daphnid species. *PLoS ONE*, **2013**, 8, e71260	3.7	59

115	Effects of aged TiO2 nanomaterial from sunscreen on Daphnia magna exposed by dietary route. *Environmental Pollution*, **2012**, 163, 55-61	9.3	46
114	Potential scenarios for nanomaterial release and subsequent alteration in the environment. *Environmental Toxicology and Chemistry*, **2012**, 31, 50-9	3.8	457
113	Influence of the length of imogolite-like nanotubes on their cytotoxicity and genotoxicity toward human dermal cells. *Chemical Research in Toxicology*, **2012**, 25, 2513-22	4	21
112	Physico-chemical control over the single- or double-wall structure of aluminogermanate imogolite-like nanotubes. *Journal of the American Chemical Society*, **2012**, 134, 3780-6	16.4	65
111	Is there a Trojan-horse effect during magnetic nanoparticles and metalloid cocontamination of human dermal fibroblasts?. *Environmental Science & Technology*, **2012**, 46, 10789-96	10.3	13
110	Chemical element imaging for speleothem geochemistry: Application to a uranium-bearing corallite with aragonite diagenesis to opal (Eastern Siberia, Russia). *Chemical Geology*, **2012**, 294-295, 190-202	4.2	13
109	Structure and distribution of allophanes, imogolite and proto-imogolite in volcanic soils. *Geoderma*, **2012**, 183-184, 100-108	6.7	65
108	Intestinal toxicity evaluation of TiO2 degraded surface-treated nanoparticles: a combined physico-chemical and toxicogenomics approach in caco-2 cells. *Particle and Fibre Toxicology*, **2012**, 9, 18	8.4	63
107	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?. *Fuel*, **2012**, 102, 423-430	7.1	18
106	Arsenic speciation in cemented paste backfills and synthetic calcium silicate hydrates. *Minerals Engineering*, **2012**, 39, 51-61	4.9	19
105	Adsorption of arsenic on polyaluminum granulate. *Environmental Science & Technology*, **2012**, 46, 7310-7	10.3	38
104	Reply to comment on Fisichella et al. (2012), "Intestinal toxicity evaluation of TiO2 degraded surface-treated nanoparticles: a combined physico-chemical and toxicogenomics approach in Caco-2 cells" by Faust et al. *Particle and Fibre Toxicology*, **2012**, 9, 39	8.4	6
103	Life cycle assessment of the application of nanoclays in wire coating. *IOP Conference Series: Materials Science and Engineering*, **2012**, 40, 012014	0.4	
102	High energy resolution five-crystal spectrometer for high quality fluorescence and absorption measurements on an x-ray absorption spectroscopy beamline. *Review of Scientific Instruments*, **2012**, 83, 063104	1.7	44
101	Effects of metallic and metal oxide nanoparticles in aquatic and terrestrial food chains. Biomarkers responses in invertebrates and bacteria. *International Journal of Nanotechnology*, **2012**, 9, 181	1.5	10
100	Environmental fate of nanoparticles: physical chemical and biological aspects ? a few snapshots. *International Journal of Nanotechnology*, **2012**, 9, 167	1.5	2
99	More than the ions: the effects of silver nanoparticles on Lolium multiflorum. *Environmental Science & Technology*, **2011**, 45, 2360-7	10.3	422
98	Ecotoxicology: Nanoparticle Reactivity and Living Organisms **2011**, 325-357		6

97	Strong chemical evidence for high Fe(II)-colloids and low As-bearing colloids (200nm–10kDa) contents in groundwater and flooded paddy fields in Bangladesh: A size fractionation approach. *Applied Geochemistry*, **2011**, 26, 1665-1672	3.5	14
96	Reactivity at (nano)particle-water interfaces, redox processes, and arsenic transport in the environment. *Comptes Rendus - Geoscience*, **2011**, 343, 123-139	1.4	48
95	Manufactured metal and metal-oxide nanoparticles: Properties and perturbing mechanisms of their biological activity in ecosystems. *Comptes Rendus - Geoscience*, **2011**, 343, 168-176	1.4	38
94	Ecotoxicological effects of an aged TiO2 nanocomposite measured as apoptosis in the anecic earthworm Lumbricus terrestris after exposure through water, food and soil. *Environment International*, **2011**, 37, 1105-10	12.9	75
93	TiO2-based nanoparticles released in water from commercialized sunscreens in a life-cycle perspective: structures and quantities. *Environmental Pollution*, **2011**, 159, 1543-50	9.3	142
92	Ecotoxicological assessment of TiO2 byproducts on the earthworm Eisenia fetida. *Environmental Pollution*, **2011**, 159, 2698-705	9.3	50
91	Environmental impact of sunscreen nanomaterials: ecotoxicity and genotoxicity of altered TiO2 nanocomposites on Vicia faba. *Environmental Pollution*, **2011**, 159, 2515-22	9.3	107
90	Detection of environmental clastogens and aneugens in human fibroblasts by cytokinesis-blocked micronucleus assay associated with immunofluorescent staining of CENP-A in micronuclei. *Chemosphere*, **2011**, 84, 676-80	8.4	13
89	Filter-feeding bivalves store and biodeposit colloidally stable gold nanoparticles. *Environmental Science & Technology*, **2011**, 45, 6592-9	10.3	58
88	Growth kinetic of single and double-walled aluminogermanate imogolite-like nanotubes: an experimental and modeling approach. *Physical Chemistry Chemical Physics*, **2011**, 13, 2682-9	3.6	43
87	Synthesis of Ge-imogolite: influence of the hydrolysis ratio on the structure of the nanotubes. *Physical Chemistry Chemical Physics*, **2011**, 13, 14516-22	3.6	28
86	Kinetics of steel slag leaching: Batch tests and modeling. *Waste Management*, **2011**, 31, 225-35	8.6	107
85	Surface Reactivity of Manufactured Nanoparticles **2011**, 269-290		4
84	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
83	Inorganic manufactured nanoparticles: how their physicochemical properties influence their biological effects in aqueous environments. *Nanomedicine*, **2010**, 5, 999-1007	5.6	65
82	Structural degradation at the surface of a TiO(2)-based nanomaterial used in cosmetics. *Environmental Science & Technology*, **2010**, 44, 2689-94	10.3	167
81	Formation and Growth Mechanisms of Imogolite-Like Aluminogermanate Nanotubes. *Chemistry of Materials*, **2010**, 22, 2466-2473	9.6	53
80	Investigation of copper speciation in pig slurry by a multitechnique approach. *Environmental Science & Technology*, **2010**, 44, 6926-32	10.3	44

79	Evidence of double-walled Al-Ge imogolite-like nanotubes. a cryo-TEM and SAXS investigation. *Journal of the American Chemical Society*, **2010**, 132, 1208-9	16.4	54
78	Speciation of Cd and Pb in dust emitted from sinter plant. *Chemosphere*, **2010**, 78, 445-50	8.4	85
77	Concurrent aggregation and deposition of TiO2 nanoparticles in a sandy porous media. *Environmental Science & Technology*, **2010**, 44, 4897-902	10.3	179
76	Comparison of Methods for Fullerene Detection and Measurements of Reactive Oxygen Production in Cosmetic Products. *Environmental Engineering Science*, **2010**, 27, 797-804	2	19
75	Temporal variations in arsenic uptake by rice plants in Bangladesh: the role of iron plaque in paddy fields irrigated with groundwater. *Science of the Total Environment*, **2010**, 408, 4185-93	10.2	70
74	Aging of TiO(2) nanocomposites used in sunscreen. Dispersion and fate of the degradation products in aqueous environment. *Environmental Pollution*, **2010**, 158, 3482-9	9.3	172
73	Modelling of Pb release during Portland cement alteration. *Advances in Cement Research*, **2009**, 21, 1-10	1.8	6
72	Towards a definition of inorganic nanoparticles from an environmental, health and safety perspective. *Nature Nanotechnology*, **2009**, 4, 634-41	28.7	1306
71	Influence of arsenate species on the formation of Fe(III) oxyhydroxides and Fe(II□I) hydroxychloride. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2009**, 332, 26-35	5.1	17
70	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, 17080-1	16.4	57
69	Chemical stability of metallic nanoparticles: a parameter controlling their potential cellular toxicity in vitro. *Environmental Pollution*, **2009**, 157, 1127-33	9.3	416
68	The effect of silica and natural organic matter on the Fe(II)-catalysed transformation and reactivity of Fe(III) minerals. *Geochimica Et Cosmochimica Acta*, **2009**, 73, 4409-4422	5.5	255
67	Role of natural nanoparticles on the speciation of Ni in andosols of la Reunion. *Geochimica Et Cosmochimica Acta*, **2009**, 73, 4750-4760	5.5	26
66	Direct and indirect CeO2 nanoparticles toxicity for Escherichia coli and Synechocystis. *Nanotoxicology*, **2009**, 3, 284-295	5.3	122
65	CeO2 nanoparticles induce DNA damage towards human dermal fibroblasts in vitro. *Nanotoxicology* , **2009**, 3, 161-171	5.3	155
64	Hydration and dispersion of C60 in aqueous systems: the nature of water-fullerene interactions. *Langmuir*, **2009**, 25, 11232-5	4	98
63	Rhizosphere pH gradient controls copper availability in a strongly acidic soil. *Environmental Science & Technology*, **2009**, 43, 5686-91	10.3	38
62	Enhanced adsorption of arsenic onto maghemites nanoparticles: As(III) as a probe of the surface structure and heterogeneity. *Langmuir*, **2008**, 24, 3215-22	4	167

61	Solubility of Fe-ettringite (Ca6[Fe(OH)6]2(SO4)3·26H2O). *Geochimica Et Cosmochimica Acta*, **2008**, 72, 1-18	5.5	83
60	Determination of zinc speciation in basic oxygen furnace flying dust by chemical extractions and X-ray spectroscopy. *Chemosphere*, **2008**, 70, 1945-51	8.4	43
59	Relation between the redox state of iron-based nanoparticles and their cytotoxicity toward Escherichia coli. *Environmental Science & Technology*, **2008**, 42, 6730-5	10.3	427
58	Synthesis of large quantities of single-walled aluminogermanate nanotube. *Journal of the American Chemical Society*, **2008**, 130, 5862-3	16.4	65
57	Heavy metal tolerance in Stenotrophomonas maltophilia. *PLoS ONE*, **2008**, 3, e1539	3.7	79
56	Fractal Mechanisms in Coagulation/Flocculation Processes in Environmental Systems **2008**, 149-178		
55	Apatite and Portland/apatite composite cements obtained using a hydrothermal method for retaining heavy metals. *Journal of Hazardous Materials*, **2008**, 150, 99-108	12.8	21
54	A role for adsorption in lead leachability from MSWI bottom ASH. *Waste Management*, **2008**, 28, 1324-30	8.6	13
53	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. *Journal of Physical Chemistry B*, **2007**, 111, 5101-10	3.4	122
52	Toward direct, micron-scale XRF elemental maps and quantitative profiles of wet marine sediments. *Geochemistry, Geophysics, Geosystems*, **2007**, 8, n/a-n/a	3.6	36
51	Environmental impacts of steel slag reused in road construction: a crystallographic and molecular (XANES) approach. *Journal of Hazardous Materials*, **2007**, 139, 537-42	12.8	155
50	Environmental Impact of Steel Slag Reused as Aggregates in Road Manufacturing: Molecular Mechanisms of Chromium and Vanadium Release. *AIP Conference Proceedings*, **2007**,	0	3
49	Impact of irrigating rice paddies with groundwater containing arsenic in Bangladesh. *Science of the Total Environment*, **2006**, 367, 769-77	10.2	91
48	Nanotechnologies: Tools for sustainability in a new wave of water treatment processes. *Integrated Environmental Assessment and Management*, **2006**, 2, 391-395	2.5	75
47	Rhenium migration at the Maqarin natural analogue site (Jordan). *Radiochimica Acta*, **2006**, 94, 755-761	1.9	2
46	Affinity of C60 Fullerenes with Water. *Fullerenes Nanotubes and Carbon Nanostructures*, **2006**, 14, 307-31	1.48	39
45	In vitro interactions between DMSA-coated maghemite nanoparticles and human fibroblasts: A physicochemical and cyto-genotoxical study. *Environmental Science & Technology*, **2006**, 40, 4367-73	10.3	180
44	New combination of EXAFS spectroscopy and density fractionation for the speciation of chromium within an andosol. *Environmental Science & Technology*, **2006**, 40, 7602-8	10.3	38

43	Speciation of Cr and V within BOF steel slag reused in road constructions. *Journal of Geochemical Exploration*, **2006**, 88, 10-14	3.8	53
42	Zinc speciation in steel plant atmospheric emissions: A multi-technical approach. *Journal of Geochemical Exploration*, **2006**, 88, 239-242	3.8	18
41	Evolution of iron speciation during hydration of C4AF. *Waste Management*, **2006**, 26, 720-4	8.6	23
40	Cytotoxicity of CeO2 nanoparticles for Escherichia coli. Physico-chemical insight of the cytotoxicity mechanism. *Environmental Science & Technology*, **2006**, 40, 6151-6	10.3	606
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38	Nanotechnologies: tools for sustainability in a new wave of water treatment processes. *Integrated Environmental Assessment and Management*, **2006**, 2, 391-5	2.5	6
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