

Jerome Rose

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.

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	Towards a definition of inorganic nanoparticles from an environmental, health and safety perspective. <i>Nature Nanotechnology</i> , 2009 , 4, 634-41	28.7	1306
203	Cytotoxicity of CeO ₂ nanoparticles for Escherichia coli. Physico-chemical insight of the cytotoxicity mechanism. <i>Environmental Science & Technology</i> , 2006 , 40, 6151-6	10.3	606
202	Potential scenarios for nanomaterial release and subsequent alteration in the environment. <i>Environmental Toxicology and Chemistry</i> , 2012 , 31, 50-9	3.8	457
201	Relation between the redox state of iron-based nanoparticles and their cytotoxicity toward Escherichia coli. <i>Environmental Science & Technology</i> , 2008 , 42, 6730-5	10.3	427
200	More than the ions: the effects of silver nanoparticles on Lolium multiflorum. <i>Environmental Science & Technology</i> , 2011 , 45, 2360-7	10.3	422
199	Chemical stability of metallic nanoparticles: a parameter controlling their potential cellular toxicity in vitro. <i>Environmental Pollution</i> , 2009 , 157, 1127-33	9.3	416
198	The effect of silica and natural organic matter on the Fe(II)-catalysed transformation and reactivity of Fe(III) minerals. <i>Geochimica Et Cosmochimica Acta</i> , 2009 , 73, 4409-4422	5.5	255
197	Decoupling of As and Fe release to Bangladesh groundwater under reducing conditions. Part II: Evidence from sediment incubations. <i>Geochimica Et Cosmochimica Acta</i> , 2004 , 68, 3475-3486	5.5	215
196	In vitro interactions between DMSA-coated maghemite nanoparticles and human fibroblasts: A physicochemical and cyto-genotoxic study. <i>Environmental Science & Technology</i> , 2006 , 40, 4367-73	10.3	180
195	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
194	Aging of TiO ₂ (2) nanocomposites used in sunscreen. Dispersion and fate of the degradation products in aqueous environment. <i>Environmental Pollution</i> , 2010 , 158, 3482-9	9.3	172
193	Structural degradation at the surface of a TiO ₂ (2)-based nanomaterial used in cosmetics. <i>Environmental Science & Technology</i> , 2010 , 44, 2689-94	10.3	167
192	Enhanced adsorption of arsenic onto maghemites nanoparticles: As(III) as a probe of the surface structure and heterogeneity. <i>Langmuir</i> , 2008 , 24, 3215-22	4	167
191	CeO ₂ nanoparticles induce DNA damage towards human dermal fibroblasts in vitro. <i>Nanotoxicology</i> , 2009 , 3, 161-171	5.3	155
190	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
189	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
188	TiO ₂ -based nanoparticles released in water from commercialized sunscreens in a life-cycle perspective: structures and quantities. <i>Environmental Pollution</i> , 2011 , 159, 1543-50	9.3	142

187	Sorption of arsenite, arsenate, and thioarsenates to iron oxides and iron sulfides: a kinetic and spectroscopic investigation. <i>Environmental Science & Technology</i> , 2013 , 47, 5652-9	10.3	136
186	Direct and indirect CeO ₂ nanoparticles toxicity for <i>Escherichia coli</i> and <i>Synechocystis</i> . <i>Nanotoxicology</i> , 2009 , 3, 284-295	5.3	122
185	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
184	Protein corona formation for nanomaterials and proteins of a similar size: hard or soft corona?. <i>Nanoscale</i> , 2013 , 5, 1658-68	7.7	110
183	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
182	Kinetics of steel slag leaching: Batch tests and modeling. <i>Waste Management</i> , 2011 , 31, 225-35	8.6	107
181	Nucleation and Growth Mechanisms of Fe Oxyhydroxide in the Presence of PO ₄ Ions. 1. Fe K-Edge EXAFS Study. <i>Langmuir</i> , 1996 , 12, 6701-6707	4	100
180	Hydration and dispersion of C ₆₀ in aqueous systems: the nature of water-fullerene interactions. <i>Langmuir</i> , 2009 , 25, 11232-5	4	98
179	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
178	Impact of irrigating rice paddies with groundwater containing arsenic in Bangladesh. <i>Science of the Total Environment</i> , 2006 , 367, 769-77	10.2	91
177	Chemistry and structure of aggregates formed with Fe-salts and natural organic matter. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 1999 , 147, 297-308	5.1	90
176	Speciation of Cd and Pb in dust emitted from sinter plant. <i>Chemosphere</i> , 2010 , 78, 445-50	8.4	85
175	Speciation and Crystal Chemistry of Iron(III) Chloride Hydrolyzed in the Presence of SiO ₄ Ligands. 1. An Fe K-Edge EXAFS Study. <i>Langmuir</i> , 2000 , 16, 4726-4731	4	85
174	Inhibition of sulfate reducing bacteria in aquifer sediment by iron nanoparticles. <i>Water Research</i> , 2014 , 51, 64-72	12.5	83
173	Solubility of Fe-ttringite (Ca ₆ [Fe(OH) ₆] ₂ (SO ₄) ₃ ·6H ₂ O). <i>Geochimica Et Cosmochimica Acta</i> , 2008 , 72, 1-18	5.5	83
172	Coagulation-Flocculation of Natural Organic Matter with Al Salts: Speciation and Structure of the Aggregates. <i>Environmental Science & Technology</i> , 2000 , 34, 3242-3246	10.3	81
171	Heavy metal tolerance in <i>Stenotrophomonas maltophilia</i> . <i>PLoS ONE</i> , 2008 , 3, e1539	3.7	79
170	Transfer, transformation, and impacts of ceria nanomaterials in aquatic mesocosms simulating a pond ecosystem. <i>Environmental Science & Technology</i> , 2014 , 48, 9004-13	10.3	78

169	Nucleation and Growth Mechanisms of Fe Oxyhydroxide in the Presence of PO ₄ Ions. 2. P K-Edge EXAFS Study. <i>Langmuir</i> , 1997 , 13, 1827-1834	4	76
168	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
167	Nanotechnologies: Tools for sustainability in a new wave of water treatment processes. <i>Integrated Environmental Assessment and Management</i> , 2006 , 2, 391-395	2.5	75
166	Molecular insights of oxidation process of iron nanoparticles: spectroscopic, magnetic, and microscopic evidence. <i>Environmental Science & Technology</i> , 2014 , 48, 13888-94	10.3	73
165	Temporal variations in arsenic uptake by rice plants in Bangladesh: the role of iron plaque in paddy fields irrigated with groundwater. <i>Science of the Total Environment</i> , 2010 , 408, 4185-93	10.2	70
164	Characterization of Iron-Oxides Formed by Oxidation of Ferrous Ions in the Presence of Various Bacterial Species and Inorganic Ligands. <i>Geomicrobiology Journal</i> , 2004 , 21, 99-112	2.5	68
163	Speciation and Crystal Chemistry of Fe(III) Chloride Hydrolyzed in the Presence of SiO ₄ Ligands. 2. Characterization of SiFe Aggregates by FTIR and ²⁹ Si Solid-State NMR. <i>Langmuir</i> , 2001 , 17, 1399-1405	4	68
162	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
161	Structure and distribution of allophanes, imogolite and proto-imogolite in volcanic soils. <i>Geoderma</i> , 2012 , 183-184, 100-108	6.7	65
160	Inorganic manufactured nanoparticles: how their physicochemical properties influence their biological effects in aqueous environments. <i>Nanomedicine</i> , 2010 , 5, 999-1007	5.6	65
159	Synthesis of large quantities of single-walled aluminogermanate nanotube. <i>Journal of the American Chemical Society</i> , 2008 , 130, 5862-3	16.4	65
158	XAS study of iron and arsenic speciation during Fe(II) oxidation in the presence of As(III). <i>Environmental Science & Technology</i> , 2005 , 39, 9478-85	10.3	64
157	Intestinal toxicity evaluation of TiO ₂ degraded surface-treated nanoparticles: a combined physico-chemical and toxicogenomics approach in caco-2 cells. <i>Particle and Fibre Toxicology</i> , 2012 , 9, 18	8.4	63
156	Ceramic membranes derived from ferroxane nanoparticles: a new route for the fabrication of iron oxide ultrafiltration membranes. <i>Journal of Membrane Science</i> , 2003 , 227, 207-217	9.6	62
155	Chemistry and structure of colloids obtained by hydrolysis of Fe(III) in the presence of SiO ₄ ligands. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2003 , 217, 121-128	5.1	62
154	Aggregation and sedimentation of magnetite nanoparticle clusters. <i>Environmental Science: Nano</i> , 2016 , 3, 567-577	7.1	62
153	Exposure to cerium dioxide nanoparticles differently affect swimming performance and survival in two daphnid species. <i>PLoS ONE</i> , 2013 , 8, e71260	3.7	59
152	Filter-feeding bivalves store and biodeposit colloiddally stable gold nanoparticles. <i>Environmental Science & Technology</i> , 2011 , 45, 6592-9	10.3	58

151	Synthesis of imogolite fibers from decimolar concentration at low temperature and ambient pressure: a promising route for inexpensive nanotubes. <i>Journal of the American Chemical Society</i> , 2009 , 131, 17080-1	16.4	57
150	Evidence of double-walled Al-Ge imogolite-like nanotubes. a cryo-TEM and SAXS investigation. <i>Journal of the American Chemical Society</i> , 2010 , 132, 1208-9	16.4	54
149	Formation and Growth Mechanisms of Imogolite-Like Aluminogermanate Nanotubes. <i>Chemistry of Materials</i> , 2010 , 22, 2466-2473	9.6	53
148	Structure and Mechanisms of Formation of FeOOH(NO ₃) Oligomers in the Early Stages of Hydrolysis. <i>Langmuir</i> , 1997 , 13, 3240-3246	4	53
147	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
146	Iron speciation in natural organic matter colloids. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 1998 , 136, 11-19	5.1	52
145	Long-term aging of a CeO ₂ based nanocomposite used for wood protection. <i>Environmental Pollution</i> , 2014 , 188, 1-7	9.3	51
144	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
143	Single-step formation of micron long (OH) ₃ Al ₂ O ₃ Ge(OH) imogolite-like nanotubes. <i>Chemical Communications</i> , 2013 , 49, 11284-6	5.8	50
142	Ecotoxicological assessment of TiO ₂ byproducts on the earthworm <i>Eisenia fetida</i> . <i>Environmental Pollution</i> , 2011 , 159, 2698-705	9.3	50
141	X-ray Absorption Spectroscopy Study of Immobilization Processes for Heavy Metals in Calcium Silicate Hydrates. 2. Zinc. <i>Langmuir</i> , 2001 , 17, 3658-3665	4	50
140	Meeting the Needs for Released Nanomaterials Required for Further Testing-The SUN Approach. <i>Environmental Science & Technology</i> , 2016 , 50, 2747-53	10.3	49
139	Reactivity at (nano)particle-water interfaces, redox processes, and arsenic transport in the environment. <i>Comptes Rendus - Geoscience</i> , 2011 , 343, 123-139	1.4	48
138	Regulatory relevant and reliable methods and data for determining the environmental fate of manufactured nanomaterials. <i>NanoImpact</i> , 2017 , 8, 1-10	5.6	47
137	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
136	Ultrastructural interactions and genotoxicity assay of cerium dioxide nanoparticles on mouse oocytes. <i>International Journal of Molecular Sciences</i> , 2013 , 14, 21613-28	6.3	46
135	DNA damage and oxidative stress induced by CeO ₂ nanoparticles in human dermal fibroblasts: Evidence of a clastogenic effect as a mechanism of genotoxicity. <i>Nanotoxicology</i> , 2015 , 9, 696-705	5.3	44
134	Investigation of copper speciation in pig slurry by a multitechnique approach. <i>Environmental Science & Technology</i> , 2010 , 44, 6926-32	10.3	44

133	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
132	Microbial Sulfate Reduction Enhances Arsenic Mobility Downstream of Zerovalent-Iron-Based Permeable Reactive Barrier. <i>Environmental Science & Technology</i> , 2016 , 50, 7610-7	10.3	43
131	Growth kinetic of single and double-walled aluminogermanate imogolite-like nanotubes: an experimental and modeling approach. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 2682-9	3.6	43
130	Determination of zinc speciation in basic oxygen furnace flying dust by chemical extractions and X-ray spectroscopy. <i>Chemosphere</i> , 2008 , 70, 1945-51	8.4	43
129	Characteristics of ultrafiltration ceramic membranes derived from alumoxane nanoparticles. <i>Journal of Membrane Science</i> , 2002 , 205, 33-43	9.6	43
128	X-ray Absorption Spectroscopy Study of Immobilization Processes for Heavy Metals in Calcium Silicate Hydrates: 1. Case of Lead. <i>Langmuir</i> , 2000 , 16, 9900-9906	4	42
127	Synthesis and Characterization of Carboxylate-FeOOH Nanoparticles (Ferroxanes) and Ferroxane-Derived Ceramics. <i>Chemistry of Materials</i> , 2002 , 14, 621-628	9.6	41
126	Nickel speciation in <i>Sebertia acuminata</i> , a plant growing on a lateritic soil of New Caledonia. <i>Comptes Rendus - Geoscience</i> , 2004 , 336, 567-577	1.4	40
125	Are interactions between organic compounds and nanoscale weathering minerals the key drivers of carbon storage in soils?. <i>Environmental Science & Technology</i> , 2015 , 49, 3997-8	10.3	39
124	Affinity of C60 Fullerenes with Water. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2006 , 14, 307-314	4.8	39
123	Chronic dosing of a simulated pond ecosystem in indoor aquatic mesocosms: fate and transport of CeO ₂ nanoparticles. <i>Environmental Science: Nano</i> , 2015 , 2, 653-663	7.1	38
122	Adsorption of arsenic on polyaluminum granulate. <i>Environmental Science & Technology</i> , 2012 , 46, 7310-7	10.3	38
121	Manufactured metal and metal-oxide nanoparticles: Properties and perturbing mechanisms of their biological activity in ecosystems. <i>Comptes Rendus - Geoscience</i> , 2011 , 343, 168-176	1.4	38
120	Rhizosphere pH gradient controls copper availability in a strongly acidic soil. <i>Environmental Science & Technology</i> , 2009 , 43, 5686-91	10.3	38
119	New combination of EXAFS spectroscopy and density fractionation for the speciation of chromium within an andosol. <i>Environmental Science & Technology</i> , 2006 , 40, 7602-8	10.3	38
118	Cerium dioxide nanoparticles affect in vitro fertilization in mice. <i>Nanotoxicology</i> , 2016 , 10, 111-7	5.3	37
117	Environmental exposure to TiO ₂ nanomaterials incorporated in building material. <i>Environmental Pollution</i> , 2017 , 220, 1160-1170	9.3	36
116	Toward direct, micron-scale XRF elemental maps and quantitative profiles of wet marine sediments. <i>Geochemistry, Geophysics, Geosystems</i> , 2007 , 8, n/a-n/a	3.6	36

115	Aged TiO ₂ -based nanocomposite used in sunscreens produces singlet oxygen under long-wave UV and sensitizes Escherichia coli to cadmium. <i>Environmental Science & Technology</i> , 2014 , 48, 5245-53	10.3	35
114	High-Energy Resolution Fluorescence Detected X-Ray Absorption Spectroscopy: A Powerful New Structural Tool in Environmental Biogeochemistry Sciences. <i>Journal of Environmental Quality</i> , 2017 , 46, 1146-1157	3.4	35
113	Arsenic binding to organic and inorganic sulfur species during microbial sulfate reduction: a sediment flow-through reactor experiment. <i>Environmental Chemistry</i> , 2013 , 10, 285	3.2	35
112	An adaptable mesocosm platform for performing integrated assessments of nanomaterial risk in complex environmental systems. <i>Scientific Reports</i> , 2014 , 4, 5608	4.9	34
111	Structural incorporation of iron into Ge ^{IV} -imogolite nanotubes: a promising step for innovative nanomaterials. <i>RSC Advances</i> , 2014 , 4, 49827-49830	3.7	33
110	Exposure of juvenile Danio rerio to aged TiO ₂ nanomaterial from sunscreen. <i>Environmental Science and Pollution Research</i> , 2013 , 20, 3340-50	5.1	33
109	Role of molting on the biodistribution of CeO ₂ nanoparticles within Daphnia pulex. <i>Water Research</i> , 2013 , 47, 3921-30	12.5	32
108	Physico-chemical study of fouling mechanisms of ultrafiltration membrane on Biwa lake (Japan). <i>Journal of Membrane Science</i> , 1997 , 130, 53-62	9.6	32
107	Toxicity evaluation of manufactured CeO ₂ nanoparticles before and after alteration: combined physicochemical and whole-genome expression analysis in Caco-2 cells. <i>BMC Genomics</i> , 2014 , 15, 700	4.5	31
106	Pulmonary exposure to metallic nanomaterials during pregnancy irreversibly impairs lung development of the offspring. <i>Nanotoxicology</i> , 2017 , 11, 484-495	5.3	29
105	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
104	Preparation of amino-functionalized silica in aqueous conditions. <i>Applied Surface Science</i> , 2013 , 266, 15561-60	16.0	29
103	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
102	Aqueous Zirconium Complexes for Gelling Polymers. A Combined X-ray Absorption Spectroscopy and Quantum Mechanical Study. <i>Journal of Physical Chemistry B</i> , 2003 , 107, 2910-2920	3.4	27
101	Role of natural nanoparticles on the speciation of Ni in andosols of la Reunion. <i>Geochimica Et Cosmochimica Acta</i> , 2009 , 73, 4750-4760	5.5	26
100	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
99	Arsenate uptake by Al nanoclusters and other Al-based sorbents during water treatment. <i>Water Research</i> , 2016 , 88, 844-851	12.5	25
98	Salinity-dependent silver nanoparticle uptake and transformation by Atlantic killifish (Fundulus heteroclitus) embryos. <i>Nanotoxicology</i> , 2014 , 8 Suppl 1, 167-76	5.3	24

97	Combining size fractionation, scanning electron microscopy, and X-ray absorption spectroscopy to probe zinc speciation in pig slurry. <i>Journal of Environmental Quality</i> , 2010 , 39, 531-40	3.4	24
96	Evolution of iron speciation during hydration of C4AF. <i>Waste Management</i> , 2006 , 26, 720-4	8.6	23
95	The accurate crystal chemistry of ferric smectites from the lateritic nickel ore of Murrin Murrin (Western Australia). II. Spectroscopic (IR and EXAFS) approaches. <i>Clay Minerals</i> , 2004 , 39, 453-467	1.3	23
94	Harmonizing across environmental nanomaterial testing media for increased comparability of nanomaterial datasets. <i>Environmental Science: Nano</i> , 2020 , 7, 13-36	7.1	23
93	Transformations of Nanoenabled Copper Formulations Govern Release, Antifungal Effectiveness, and Sustainability throughout the Wood Protection Lifecycle. <i>Environmental Science & Technology</i> , 2018 , 52, 1128-1138	10.3	22
92	Nucleation and Growth Mechanisms of Iron Oxyhydroxides in the Presence of PO ₄ Ions. 3. Speciation of Fe by Small Angle X-ray Scattering. <i>Langmuir</i> , 1997 , 13, 3882-3885	4	22
91	Very low concentration of cerium dioxide nanoparticles induce DNA damage, but no loss of vitality, in human spermatozoa. <i>Toxicology in Vitro</i> , 2018 , 50, 236-241	3.6	21
90	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
89	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
88	Apatite and Portland/apatite composite cements obtained using a hydrothermal method for retaining heavy metals. <i>Journal of Hazardous Materials</i> , 2008 , 150, 99-108	12.8	21
87	Enhanced transportability of zero valent iron nanoparticles in aquifer sediments: surface modifications, reactivity, and particle traveling distances. <i>Environmental Science and Pollution Research</i> , 2017 , 24, 9269-9277	5.1	20
86	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
85	First insights of Cr speciation in leached Portland cement using X-ray spectromicroscopy. <i>Environmental Science & Technology</i> , 2003 , 37, 4864-70	10.3	20
84	Contribution of mesocosm testing to a single-step and exposure-driven environmental risk assessment of engineered nanomaterials. <i>NanoImpact</i> , 2019 , 13, 66-69	5.6	20
83	SERENADE: safer and ecodesign research and education applied to nanomaterial development, the new generation of materials safer by design. <i>Environmental Science: Nano</i> , 2017 , 4, 526-538	7.1	19
82	Arsenic speciation in cemented paste backfills and synthetic calcium silicate hydrates. <i>Minerals Engineering</i> , 2012 , 39, 51-61	4.9	19
81	Comparison of Methods for Fullerene Detection and Measurements of Reactive Oxygen Production in Cosmetic Products. <i>Environmental Engineering Science</i> , 2010 , 27, 797-804	2	19
80	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

79	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
78	The effect of surface modification of microfibrillated cellulose (MFC) by acid chlorides on the structural and thermomechanical properties of biopolyamide 4.10 nanocomposites. <i>Industrial Crops and Products</i> , 2018 , 116, 97-108	5.9	18
77	Design Defines the Effects of Nanoceria at a Low Dose on Soil Microbiota and the Potentiation of Impacts by the Canola Plant. <i>Environmental Science & Technology</i> , 2016 , 50, 6892-901	10.3	18
76	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
75	Zinc speciation in steel plant atmospheric emissions: A multi-technical approach. <i>Journal of Geochemical Exploration</i> , 2006 , 88, 239-242	3.8	18
74	Goethite, a tailor-made host for the critical metal scandium: The $\text{FeSc}_{(1-x)}\text{OOH}$ solid solution. <i>Geochemical Perspectives Letters</i> , 16-20	3	18
73	Sulfur and oxygen isotope tracing in zero valent iron based In situ remediation system for metal contaminants. <i>Chemosphere</i> , 2013 , 90, 1366-71	8.4	17
72	Influence of arsenate species on the formation of Fe(III) oxyhydroxides and Fe(III) hydroxychloride. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2009 , 332, 26-35	5.1	17
71	Hydrolysis of Iron(II) Chloride under Anoxic Conditions and Influence of SiO_4 Ligands. <i>Langmuir</i> , 2002 , 18, 4292-4299	4	17
70	Speciation and Crystal Chemistry of Iron(III) Chloride Hydrolyzed in the Presence of SiO_4 Ligands. 3. Semilocal Scale Structure of the Aggregates. <i>Langmuir</i> , 2001 , 17, 4753-4757	4	17
69	Nucleation and Growth Mechanisms of Iron Oxyhydroxides in the Presence of PO_4 Ions. 4. Structure of the Aggregates. <i>Langmuir</i> , 1997 , 13, 3886-3889	4	16
68	Safe(r) by design implementation in the nanotechnology industry. <i>NanoImpact</i> , 2020 , 20, 100267	5.6	16
67	An overview of solid/liquid separation methods and size fractionation techniques for engineered nanomaterials in aquatic environment. <i>Environmental Technology Reviews</i> , 2013 , 2, 55-70	7.7	15
66	Electroweak studies in e+e- collisions: 12 <i>Physical Review D</i> , 1988 , 38, 2665-2678	4.9	15
65	Anthropogenic Release and Distribution of Titanium Dioxide Particles in a River Downstream of a Nanomaterial Manufacturer Industrial Site. <i>Frontiers in Environmental Science</i> , 2020 , 8,	4.8	14
64	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. <i>Applied Geochemistry</i> , 2011 , 26, 1665-1672	3.5	14
63	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
62	Elaboration of Cellulose Nanocrystal/Ge-Imogolite Nanotube Multilayered Thin Films. <i>Langmuir</i> , 2018 , 34, 3386-3394	4	13

61	Is there a Trojan-horse effect during magnetic nanoparticles and metalloid cocontamination of human dermal fibroblasts?. <i>Environmental Science & Technology</i> , 2012 , 46, 10789-96	10.3	13
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