Jerome Rose

List of Publications by Year
in descending order

209	13,861	22153 59	22832 112
papers	citations	h-index	g-index

217	217	217	16359
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Towards a definition of inorganic nanoparticles from an environmental, health and safety perspective. Nature Nanotechnology, 2009, 4, 634-641.	31.5	1,586
2	Cytotoxicity of CeO2Nanoparticles forEscherichia coli.Physico-Chemical Insight of the Cytotoxicity Mechanism. Environmental Science & Technology, 2006, 40, 6151-6156.	10.0	723
3	Potential scenarios for nanomaterial release and subsequent alteration in the environment. Environmental Toxicology and Chemistry, 2012, 31, 50-59.	4.3	498
4	More than the Ions: The Effects of Silver Nanoparticles on <i>Lolium multiflorum</i>. Environmental Science & Technology, 2011, 45, 2360-2367.	10.0	494
5	Relation between the Redox State of Iron-Based Nanoparticles and Their Cytotoxicity toward <i>Escherichia coli</i>. Environmental Science & Technology, 2008, 42, 6730-6735.	10.0	487
6	Chemical stability of metallic nanoparticles: A parameter controlling their potential cellular toxicity in vitro. Environmental Pollution, 2009, 157, 1127-1133.	7.5	473
7	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.	3.9	318
8	Decoupling of As and Fe release to Bangladesh groundwater under reducing conditions. Part II: Evidence from sediment incubations. Geochimica Et Cosmochimica Acta, 2004, 68, 3475-3486.	3.9	231
9	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.	11.0	204
10	Aging of TiO2 nanocomposites used in sunscreen. Dispersion and fate of the degradation products in aqueous environment. Environmental Pollution, 2010, 158, 3482-3489.	7.5	203
11	Concurrent Aggregation and Deposition of TiO₂ Nanoparticles in a Sandy Porous Media. Environmental Science & Technology, 2010, 44, 4897-4902.	10.0	197
12	In Vitro Interactions between DMSA-Coated Maghemite Nanoparticles and Human Fibroblasts:Â A Physicochemical and Cyto-Genotoxical Studyâ€. Environmental Science & Technology, 2006, 40, 4367-4373.	10.0	195
13	Structural Degradation at the Surface of a TiO₂-Based Nanomaterial Used in Cosmetics. Environmental Science & Technology, 2010, 44, 2689-2694.	10.0	193
14	Enhanced Adsorption of Arsenic onto Maghemites Nanoparticles:â€‰ As(III) as a Probe of the Surface Structure and Heterogeneity. Langmuir, 2008, 24, 3215-3222.	3.5	185
15	Environmental impacts of steel slag reused in road construction: A crystallographic and molecular (XANES) approach. Journal of Hazardous Materials, 2007, 139, 537-542.	12.4	184
16	CeO₂nanoparticles induce DNA damage towards human dermal fibroblasts<i>in vitro</i>. Nanotoxicology, 2009, 3, 161-171.	3.0	179
17	Sorption of Arsenite, Arsenate, and Thioarsenates to Iron Oxides and Iron Sulfides: A Kinetic and Spectroscopic Investigation. Environmental Science & Technology, 2013, 47, 5652-5659.	10.0	175
18	TiO2-based nanoparticles released in water from commercialized sunscreens in a life-cycle perspective: Structures and quantities. Environmental Pollution, 2011, 159, 1543-1550.	7.5	166

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19	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.	10.0	152
20	Direct and indirect CeO₂nanoparticles toxicity for<i>Escherichia coli</i>and<i>Synechocystis</i>. Nanotoxicology, 2009, 3, 284-295.	3.0	146
21	New Methodological Approach for the Vanadium K-Edge X-ray Absorption Near-Edge Structure Interpretation:Â Application to the Speciation of Vanadium in Oxide Phases from Steel Slag. Journal of Physical Chemistry B, 2007, 111, 5101-5110.	2.6	138
22	Protein corona formation for nanomaterials and proteins of a similar size: hard or soft corona?. Nanoscale, 2013, 5, 1658.	5.6	134
23	Environmental impact of sunscreen nanomaterials: Ecotoxicity and genotoxicity of altered TiO2 nanocomposites on Vicia faba. Environmental Pollution, 2011, 159, 2515-2522.	7.5	123
24	Kinetics of steel slag leaching: Batch tests and modeling. Waste Management, 2011, 31, 225-235.	7.4	120
25	Heavy Metal Tolerance in Stenotrophomonas maltophilia. PLoS ONE, 2008, 3, e1539.	2.5	112
26	Nucleation and Growth Mechanisms of Fe Oxyhydroxide in the Presence of PO4Ions. 1. Fe K-Edge EXAFS Study. Langmuir, 1996, 12, 6701-6707.	3.5	107
27	Hydration and Dispersion of C₆₀ in Aqueous Systems: The Nature of Waterâ^'Fullerene Interactions. Langmuir, 2009, 25, 11232-11235.	3.5	103
28	Impact of irrigating rice paddies with groundwater containing arsenic in Bangladesh. Science of the Total Environment, 2006, 367, 769-777.	8.0	102
29	Solubility of Feâ€"ettringite (Ca6[Fe(OH)6]2(SO4)3Â·26H2O). Geochimica Et Cosmochimica Acta, 2008, 72, 1-18.	3.9	101
30	Chemistry and structure of aggregates formed with Fe-salts and natural organic matter. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 1999, 147, 297-308.	4.7	99
31	Speciation of Cd and Pb in dust emitted from sinter plant. Chemosphere, 2010, 78, 445-450.	8.2	99
32	Molecular Insights of Oxidation Process of Iron Nanoparticles: Spectroscopic, Magnetic, and Microscopic Evidence. Environmental Science & Technology, 2014, 48, 13888-13894.	10.0	97
33	Inhibition of sulfate reducing bacteria in aquifer sediment by iron nanoparticles. Water Research, 2014, 51, 64-72.	11.3	96
34	Coagulation-Flocculation of Natural Organic Matter with Al Salts:Â Speciation and Structure of the Aggregates. Environmental Science & Technology, 2000, 34, 3242-3246.	10.0	95
35	Nucleation and Growth Mechanisms of Fe Oxyhydroxide in the Presence of PO4Ions. 2. P K-Edge EXAFS Study. Langmuir, 1997, 13, 1827-1834.	3.5	94
36	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.	3.5	93

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37	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, 1105-1110.	10.0	93
38	Nanotechnologies: Tools for sustainability in a new wave of water treatment processes. Integrated Environmental Assessment and Management, 2006, 2, 391-395.	2.9	90
39	Transfer, Transformation, and Impacts of Ceria Nanomaterials in Aquatic Mesocosms Simulating a Pond Ecosystem. Environmental Science & Technology, 2014, 48, 9004-9013.	10.0	85
40	Structure and distribution of allophanes, imogolite and proto-imogolite in volcanic soils. Geoderma, 2012, 183-184, 100-108.	5.1	83
41	Aggregation and sedimentation of magnetite nanoparticle clusters. Environmental Science: Nano, 2016, 3, 567-577.	4.3	81
42	Chemistry and structure of colloids obtained by hydrolysis of Fe(III) in the presence of SiO4 ligands. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2003, 217, 121-128.	4.7	78
43	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.	3.5	77
44	Ceramic membranes derived from ferroxane nanoparticles: a new route for the fabrication of iron oxide ultrafiltration membranes. Journal of Membrane Science, 2003, 227, 207-217.	8.2	75
45	Characterization of Iron-Oxides Formed by Oxidation of Ferrous Ions in the Presence of Various Bacterial Species and Inorganic Ligands. Geomicrobiology Journal, 2004, 21, 99-112.	2.0	74
46	Synthesis of Large Quantities of Single-Walled Aluminogermanate Nanotube. Journal of the American Chemical Society, 2008, 130, 5862-5863.	13.7	72
47	Highâ€Energy Resolution Fluorescence Detected Xâ€Ray Absorption Spectroscopy: A Powerful New Structural Tool in Environmental Biogeochemistry Sciences. Journal of Environmental Quality, 2017, 46, 1146-1157.	2.0	72
48	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, 4185-4193.	8.0	71
49	Inorganic manufactured nanoparticles: how their physicochemical properties influence their biological effects in aqueous environments. Nanomedicine, 2010, 5, 999-1007.	3.3	69
50	Physico-chemical Control over the Single- or Double-Wall Structure of Aluminogermanate Imogolite-like Nanotubes. Journal of the American Chemical Society, 2012, 134, 3780-3786.	13.7	69
51	XAS Study of Iron and Arsenic Speciation during Fe(II) Oxidation in the Presence of As(III). Environmental Science & Technology, 2005, 39, 9478-9485.	10.0	68
52	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.	6.2	67
53	Exposure to Cerium Dioxide Nanoparticles Differently Affect Swimming Performance and Survival in Two Daphnid Species. PLoS ONE, 2013, 8, e71260.	2.5	67
54	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.	12.7	67

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55	Filter-Feeding Bivalves Store and Biodeposit Colloidally Stable Gold Nanoparticles. Environmental Science & Technology, 2011, 45, 6592-6599.	10.0	65
56	Regulatory relevant and reliable methods and data for determining the environmental fate of manufactured nanomaterials. NanoImpact, 2017, 8, 1-10.	4.5	64
57	Speciation of Cr and V within BOF steel slag reused in road constructions. Journal of Geochemical Exploration, 2006, 88, 10-14.	3.2	63
58	Microbial Sulfate Reduction Enhances Arsenic Mobility Downstream of Zerovalent-Iron-Based Permeable Reactive Barrier. Environmental Science & Technology, 2016, 50, 7610-7617.	10.0	63
59	Ecotoxicological assessment of TiO2 byproducts on the earthworm Eisenia fetida. Environmental Pollution, 2011, 159, 2698-2705.	7.5	61
60	Formation and Growth Mechanisms of Imogolite-Like Aluminogermanate Nanotubes. Chemistry of Materials, 2010, 22, 2466-2473.	6.7	60
61	Structure and Mechanisms of Formation of FeOOH(NO3) Oligomers in the Early Stages of Hydrolysis. Langmuir, 1997, 13, 3240-3246.	3.5	59
62	Long-term aging of a CeO2 based nanocomposite used for wood protection. Environmental Pollution, 2014, 188, 1-7.	7.5	59
63	DNA damage and oxidative stress induced by CeO₂nanoparticles in human dermal fibroblasts: Evidence of a clastogenic effect as a mechanism of genotoxicity. Nanotoxicology, 2015, 9, 696-705.	3.0	59
64	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.	13.7	58
65	Reactivity at (nano)particle-water interfaces, redox processes, and arsenic transport in the environment. Comptes Rendus - Geoscience, 2011, 343, 123-139.	1.2	58
66	Iron speciation in natural organic matter colloids. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 1998, 136, 11-19.	4.7	57
67	Single-step formation of micron long (OH)3Al2O3Ge(OH) imogolite-like nanotubes. Chemical Communications, 2013, 49, 11284.	4.1	57
68	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.	13.7	56
69	Ultrastructural Interactions and Genotoxicity Assay of Cerium Dioxide Nanoparticles on Mouse Oocytes. International Journal of Molecular Sciences, 2013, 14, 21613-21628.	4.1	56
70	X-ray Absorption Spectroscopy Study of Immobilization Processes for Heavy Metals in Calcium Silicate Hydrates: 1. Case of Lead. Langmuir, 2000, 16, 9900-9906.	3.5	55
71	X-ray Absorption Spectroscopy Study of Immobilization Processes for Heavy Metals in Calcium Silicate Hydrates. 2. Zinc. Langmuir, 2001, 17, 3658-3665.	3.5	55
72	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.	1.3	55

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73	Meeting the Needs for Released Nanomaterials Required for Further Testingâ€"The SUN Approach. Environmental Science & Technology, 2016, 50, 2747-2753.	10.0	55
74	Effects of aged TiO2 nanomaterial from sunscreen on Daphnia magna exposed by dietary route. Environmental Pollution, 2012, 163, 55-61.	7.5	54
75	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.	3.9	51
76	Investigation of Copper Speciation in Pig Slurry by a Multitechnique Approach. Environmental Science & Technology, 2010, 44, 6926-6932.	10.0	50
77	Are Interactions between Organic Compounds and Nanoscale Weathering Minerals the Key Drivers of Carbon Storage in Soils?. Environmental Science & Technology, 2015, 49, 3997-3998.	10.0	49
78	Determination of zinc speciation in basic oxygen furnace flying dust by chemical extractions and X-ray spectroscopy. Chemosphere, 2008, 70, 1945-1951.	8.2	48
79	Adsorption of Arsenic on Polyaluminum Granulate. Environmental Science & Technology, 2012, 46, 7310-7317.	10.0	48
80	Cerium dioxide nanoparticles affectin vitrofertilization in mice. Nanotoxicology, 2015, 10, 1-7.	3.0	48
81	New Combination of EXAFS Spectroscopy and Density Fractionation for the Speciation of Chromium within an Andosol. Environmental Science & Technology, 2006, 40, 7602-7608.	10.0	47
82	Growth kinetic of single and double-walled aluminogermanate imogolite-like nanotubes: an experimental and modeling approach. Physical Chemistry Chemical Physics, 2011, 13, 2682-2689.	2.8	47
83	Characteristics of ultrafiltration ceramic membranes derived from alumoxane nanoparticles. Journal of Membrane Science, 2002, 205, 33-43.	8.2	46
84	Affinity of C60Fullerenes with Water. Fullerenes Nanotubes and Carbon Nanostructures, 2006, 14, 307-314.	2.1	46
85	Arsenic binding to organic and inorganic sulfur species during microbial sulfate reduction: a sediment flow-through reactor experiment. Environmental Chemistry, 2013, 10, 285.	1.5	45
86	An adaptable mesocosm platform for performing integrated assessments of nanomaterial risk in complex environmental systems. Scientific Reports, 2014, 4, 5608.	3.3	45
87	Environmental exposure to TiO2 nanomaterials incorporated in building material. Environmental Pollution, 2017, 220, 1160-1170.	7.5	44
88	Synthesis and Characterization of Carboxylateâ^'FeOOH Nanoparticles (Ferroxanes) and Ferroxane-Derived Ceramics. Chemistry of Materials, 2002, 14, 621-628.	6.7	43
89	Nickel speciation in Sebertia acuminata, a plant growing on a lateritic soil of New Caledonia. Comptes Rendus - Geoscience, 2004, 336, 567-577.	1.2	43
90	Rhizosphere pH Gradient Controls Copper Availability in a Strongly Acidic Soil. Environmental Science & Technology, 2009, 43, 5686-5691.	10.0	43

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91	Manufactured metal and metal-oxide nanoparticles: Properties and perturbing mechanisms of their biological activity in ecosystems. Comptes Rendus - Geoscience, 2011, 343, 168-176.	1.2	43
92	Preparation of amino-functionalized silica in aqueous conditions. Applied Surface Science, 2013, 266, 155-160.	6.1	42
93	Chronic dosing of a simulated pond ecosystem in indoor aquatic mesocosms: fate and transport of CeO₂ nanoparticles. Environmental Science: Nano, 2015, 2, 653-663.	4.3	42
94	Toward direct, micron-scale XRF elemental maps and quantitative profiles of wet marine sediments. Geochemistry, Geophysics, Geosystems, 2007, 8, n/a-n/a.	2.5	41
95	Aged TiO₂-Based Nanocomposite Used in Sunscreens Produces Singlet Oxygen under Long-Wave UV and Sensitizes <i>Escherichia coli</i> to Cadmium. Environmental Science & Technology, 2014, 48, 5245-5253.	10.0	40
96	Pulmonary exposure to metallic nanomaterials during pregnancy irreversibly impairs lung development of the offspring. Nanotoxicology, 2017, 11, 484-495.	3.0	40
97	Physico-chemical study of fouling mechanisms of ultrafiltration membrane on Biwa lake (Japan). Journal of Membrane Science, 1997, 130, 53-62.	8.2	38
98	Exposure of juvenile Danio rerio to aged TiO2 nanomaterial from sunscreen. Environmental Science and Pollution Research, 2013, 20, 3340-3350.	5.3	38
99	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.	2.8	37
100	Evolution of iron speciation during hydration of C4AF. Waste Management, 2006, 26, 720-724.	7.4	36
101	Role of molting on the biodistribution of CeO2 nanoparticles within Daphnia pulex. Water Research, 2013, 47, 3921-3930.	11.3	36
102	Structural incorporation of iron into Geâ€“imogolite nanotubes: a promising step for innovative nanomaterials. RSC Advances, 2014, 4, 49827-49830.	3.6	36
103	Arsenate uptake by Al nanoclusters and other Al-based sorbents during water treatment. Water Research, 2016, 88, 844-851.	11.3	35
104	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.	10.0	35
105	Transformations of Nanoenabled Copper Formulations Govern Release, Antifungal Effectiveness, and Sustainability throughout the Wood Protection Lifecycle. Environmental Science & Technology, 2018, 52, 1128-1138.	10.0	34
106	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.	2.4	32
107	Harmonizing across environmental nanomaterial testing media for increased comparability of nanomaterial datasets. Environmental Science: Nano, 2020, 7, 13-36.	4.3	32
108	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, 6892-6901.	10.0	30

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109	Aqueous Zirconium Complexes for Gelling Polymers. A Combined X-ray Absorption Spectroscopy and Quantum Mechanical Study. Journal of Physical Chemistry B, 2003, 107, 2910-2920.	2.6	29
110	Synthesis of Ge-imogolite: influence of the hydrolysis ratio on the structure of the nanotubes. Physical Chemistry Chemical Physics, 2011, 13, 14516.	2.8	29
111	The accurate crystal chemistry of ferric smectites from the lateritic nickel ore of Murrin Murrin (Western Australia). II. Spectroscopic (IR and EXAFS) approaches. Clay Minerals, 2004, 39, 453-467.	0.6	28
112	Role of natural nanoparticles on the speciation of Ni in andosols of la Reunion. Geochimica Et Cosmochimica Acta, 2009, 73, 4750-4760.	3.9	28
113	Drastic Change in Zinc Speciation during Anaerobic Digestion and Composting: Instability of Nanosized Zinc Sulfide. Environmental Science & Technology, 2018, 52, 12987-12996.	10.0	28
114	Combining Size Fractionation, Scanning Electron Microscopy, and Xâ€ray Absorption Spectroscopy to Probe Zinc Speciation in Pig Slurry. Journal of Environmental Quality, 2010, 39, 531-540.	2.0	27
115	Salinity-dependent silver nanoparticle uptake and transformation by Atlantic killifish (<i>Fundulus) Tj ETQq1 1 0.784314 rgBT /Overlock	3.0	26
116	Microbial and mineral evolution in zero valent iron-based permeable reactive barriers during long-term operations. Environmental Science and Pollution Research, 2016, 23, 5960-5968.	5.3	26
117	Contribution of mesocosm testing to a single-step and exposure-driven environmental risk assessment of engineered nanomaterials. NanoImpact, 2019, 13, 66-69.	4.5	26
118	Nanometer-long Ge-imogolite nanotubes cause sustained lung inflammation and fibrosis in rats. Particle and Fibre Toxicology, 2014, 11, 67.	6.2	25
119	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.	3.5	24
120	Arsenic speciation in cemented paste backfills and synthetic calciumâ€“silicateâ€“hydrates. Minerals Engineering, 2012, 39, 51-61.	4.3	24
121	Anthropogenic Release and Distribution of Titanium Dioxide Particles in a River Downstream of a Nanomaterial Manufacturer Industrial Site. Frontiers in Environmental Science, 2020, 8, .	3.3	23
122	Goethite, a tailor-made host for the critical metal scandium: The FexSc(1-x)OOH solid solution. Geochemical Perspectives Letters, 0, , 16-20.	5.0	23
123	Apatite and Portland/apatite composite cements obtained using a hydrothermal method for retaining heavy metals. Journal of Hazardous Materials, 2008, 150, 99-108.	12.4	22
124	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.	3.3	22
125	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.	5.3	22
126	Safe(r) by design implementation in the nanotechnology industry. NanoImpact, 2020, 20, 100267.	4.5	22

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127	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.	3.5	21
128	Zinc speciation in steel plant atmospheric emissions: A multi-technical approach. Journal of Geochemical Exploration, 2006, 88, 239-242.	3.2	21
129	Nanotechnology, global development in the frame of environmental risk forecasting. A necessity of interdisciplinary researches. Comptes Rendus - Geoscience, 2015, 347, 35-42.	1.2	21
130	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.	4.3	21
131	Respiratory hazard of Li-ion battery components: elective toxicity of lithium cobalt oxide (LiCoO2) particles in a mouse bioassay. Archives of Toxicology, 2018, 92, 1673-1684.	4.2	21
132	First Insights of Cr Speciation in Leached Portland Cement Using X-ray Spectromicroscopy. Environmental Science & Technology, 2003, 37, 4864-4870.	10.0	20
133	Influence of arsenate species on the formation of Fe(III) oxyhydroxides and Fe(IIâ€"III) hydroxychloride. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2009, 332, 26-35.	4.7	20
134	An overview of solid/liquid separation methods and size fractionation techniques for engineered nanomaterials in aquatic environment. Environmental Technology Reviews, 2013, 2, 55-70.	4.3	20
135	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.	5.2	20
136	Hydrolysis of Iron(II) Chloride under Anoxic Conditions and Influence of SiO4Ligands. Langmuir, 2002, 18, 4292-4299.	3.5	19
137	Comparison of Methods for Fullerene Detection and Measurements of Reactive Oxygen Production in Cosmetic Products. Environmental Engineering Science, 2010, 27, 797-804.	1.6	19
138	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.	4.3	19
139	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.	7.5	19
140	Electroweak studies ine+eâˆ'collisions: 12<âˆšs<46.78 GeV. Physical Review D, 1988, 38, 2665-2678.	4.7	18
141	Nucleation and Growth Mechanisms of Iron Oxyhydroxides in the Presence of PO4Ions. 4. Structure of the Aggregates. Langmuir, 1997, 13, 3886-3889.	3.5	18
142	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.	6.4	18
143	Sulfur and oxygen isotope tracing in zero valent iron based In situ remediation system for metal contaminants. Chemosphere, 2013, 90, 1366-1371.	8.2	18
144	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.	3.3	17

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145	Strong chemical evidence for high Fe(II)-colloids and low As-bearing colloids (200nmâ€“10kDa) contents in groundwater and flooded paddy fields in Bangladesh: A size fractionation approach. Applied Geochemistry, 2011, 26, 1665-1672.	3.0	16
146	Structural and physicalâ€“chemical behavior of a CeO₂ nanoparticle based diesel additive during combustion and environmental release. Environmental Science: Nano, 2017, 4, 1974-1980.	4.3	16
147	A role for adsorption in lead leachability from MSWI bottom ASH. Waste Management, 2008, 28, 1324-1330.	7.4	15
148	Composition and molecular scale structure of nanophases formed by precipitation of biotite weathering products. Geochimica Et Cosmochimica Acta, 2018, 229, 53-64.	3.9	15
149	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, 676-680.	8.2	14
150	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.	3.3	14
151	Is There a Trojan-Horse Effect during Magnetic Nanoparticles and Metalloid Cocontamination of Human Dermal Fibroblasts?. Environmental Science & Technology, 2012, 46, 10789-10796.	10.0	13
152	Elaboration of Cellulose Nanocrystal/Ge-Imogolite Nanotube Multilayered Thin Films. Langmuir, 2018, 34, 3386-3394.	3.5	13
153	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.	7.5	13
154	Zirconium speciation in lactate solutions and polyacrylate gels. Journal of Synchrotron Radiation, 2001, 8, 686-688.	2.4	12
155	Calcium coordination environment in precursor species to calcium carbonate mineral formation. Geochimica Et Cosmochimica Acta, 2019, 259, 344-357.	3.9	12
156	In Vitro Analysis of the Effects of ITER-Like Tungsten Nanoparticles: Cytotoxicity and Epigenotoxicity in BEAS-2B Cells. Nanomaterials, 2019, 9, 1233.	4.1	11
157	Lead, zinc and chromium (III) and (VI) speciation in hydrated cement phases. Waste Management Series, 2000, 1, 269-280.	0.0	10
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