

James F Ranville

List of Publications by Year in Descending Order

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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.

123
papers

7,452
citations

46
h-index

84
g-index

130
ext. papers

8,270
ext. citations

6.1
avg, IF

5.89
L-index

#	Paper	IF	Citations
123	Simultaneous Insight into Dissolution and Aggregation of Metal Sulfide Nanoparticles through Single-Particle Inductively Coupled Plasma Mass Spectrometry. <i>ACS Earth and Space Chemistry</i> , 2022 , 6, 541-550	3.2	1
122	Exploring Nanogeochemical Environments: New Insights from Single Particle ICP-TOFMS and AF4-ICPMS.. <i>ACS Earth and Space Chemistry</i> , 2022 , 6, 943-952	3.2	1
121	Quantification and Characterization of Nanoparticulate Zinc in an Urban Watershed. <i>Frontiers in Environmental Science</i> , 2020 , 8,	4.8	11
120	Quantifying temporal and geographic variation in sunscreen and mineralogic titanium-containing nanoparticles in three recreational rivers. <i>Science of the Total Environment</i> , 2020 , 743, 140845	10.2	13
119	Coupling single particle ICP-MS with field-flow fractionation for characterizing metal nanoparticles contained in nanoplastic colloids. <i>Environmental Science: Nano</i> , 2020 , 7, 514-524	7.1	15
118	Evaluating performance, degradation, and release behavior of a nanoform pigmented coating after natural and accelerated weathering. <i>NanoImpact</i> , 2020 , 17, 100199	5.6	4
117	Characteristics and Stability of Incidental Iron Oxide Nanoparticles during Remediation of a Mining-Impacted Stream. <i>Environmental Science & Technology</i> , 2019 , 53, 11214-11222	10.3	3
116	Copper release and transformation following natural weathering of nano-enabled pressure-treated lumber. <i>Science of the Total Environment</i> , 2019 , 668, 234-244	10.2	10
115	Natural, incidental, and engineered nanomaterials and their impacts on the Earth system. <i>Science</i> , 2019 , 363,	33.3	250
114	Opportunities for examining the natural nanogeochemical environment using recent advances in nanoparticle analysis. <i>Journal of Analytical Atomic Spectrometry</i> , 2019 , 34, 1768-1772	3.7	12
113	Is the Factor-of-2 Rule Broadly Applicable for Evaluating the Prediction Accuracy of Metal-Toxicity Models?. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2018 , 100, 64-68	2.7	5
112	Phytotoxicity of silver nanoparticles to Lemna minor: Surface coating and exposure period-related effects. <i>Science of the Total Environment</i> , 2018 , 618, 1389-1399	10.2	28
111	Low risk posed by engineered and incidental nanoparticles in drinking water. <i>Nature Nanotechnology</i> , 2018 , 13, 661-669	28.7	73
110	Simulation of a hydraulic fracturing wastewater surface spill on agricultural soil. <i>Science of the Total Environment</i> , 2018 , 645, 229-234	10.2	10
109	Detection and Sizing of Ti-Containing Particles in Recreational Waters Using Single Particle ICP-MS. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2018 , 100, 120-126	2.7	30
108	Biodegradation of Carbon Nanotube/Polymer Nanocomposites using a Monoculture. <i>Environmental Science & Technology</i> , 2018 , 52, 40-51	10.3	17
107	Using single-particle ICP-MS for monitoring metal-containing particles in tap water. <i>Environmental Science: Water Research and Technology</i> , 2018 , 4, 1923-1932	4.2	19

106	Gunshot residue (GSR) analysis by single particle inductively coupled plasma mass spectrometry (spICP-MS). <i>Forensic Science International</i> , 2018 , 288, e20-e25	2.6	11
105	Influence of Metal Contamination and Sediment Deposition on Benthic Invertebrate Colonization at the North Fork Clear Creek Superfund Site, Colorado, USA. <i>Environmental Science & Technology</i> , 2018 , 52, 7072-7080	10.3	9
104	Effect of age on acute toxicity of cadmium, copper, nickel, and zinc in individual-metal exposures to <i>Daphnia magna</i> neonates. <i>Environmental Toxicology and Chemistry</i> , 2017 , 36, 113-119	3.8	20
103	Age-related differences in sensitivity to metals can matter for <i>Daphnia magna</i> neonates. <i>Integrated Environmental Assessment and Management</i> , 2017 , 13, 208-210	2.5	2
102	Characterization of silver nanoparticle aggregates using single particle-inductively coupled plasma-mass spectrometry (spICP-MS). <i>Chemosphere</i> , 2017 , 171, 468-475	8.4	12
101	Chronic and pulse exposure effects of silver nanoparticles on natural lake phytoplankton and zooplankton. <i>Ecotoxicology</i> , 2017 , 26, 502-515	2.9	13
100	Measurement of the Density of Engineered Silver Nanoparticles Using Centrifugal FFF-TEM and Single Particle ICP-MS. <i>Analytical Chemistry</i> , 2017 , 89, 6056-6064	7.8	16
99	Photodegradation of polymer-CNT nanocomposites: effect of CNT loading and CNT release characteristics. <i>Environmental Science: Nano</i> , 2017 , 4, 967-982	7.1	28
98	Acute Toxicity of Ternary Cd-Cu-Ni and Cd-Ni-Zn Mixtures to <i>Daphnia magna</i> : Dominant Metal Pairs Change along a Concentration Gradient. <i>Environmental Science & Technology</i> , 2017 , 51, 4471-4481	10.3	20
97	Methodology for quantifying engineered nanomaterial release from diverse product matrices under outdoor weathering conditions and implications for life cycle assessment. <i>Environmental Science: Nano</i> , 2017 , 4, 1784-1797	7.1	17
96	Multiple Method Analysis of TiO Nanoparticle Uptake in Rice (<i>Oryza sativa</i> L.) Plants. <i>Environmental Science & Technology</i> , 2017 , 51, 10615-10623	10.3	62
95	Bioaccumulation and in-vivo dissolution of CdSe/ZnS with three different surface coatings by <i>Daphnia magna</i> . <i>Chemosphere</i> , 2016 , 143, 115-22	8.4	11
94	The Use of Field and Mesocosm Experiments to Quantify Effects of Physical and Chemical Stressors in Mining-Contaminated Streams. <i>Environmental Science & Technology</i> , 2016 , 50, 7825-33	10.3	22
93	Single Particle ICP-MS: Advances toward routine analysis of nanomaterials. <i>Analytical and Bioanalytical Chemistry</i> , 2016 , 408, 5053-74	4.4	199
92	Surface Modification of Gd Nanoparticles with pH-Responsive Block Copolymers for Use As Smart MRI Contrast Agents. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 5040-50	9.5	29
91	Potential Environmental Impacts and Antimicrobial Efficacy of Silver- and Nanosilver-Containing Textiles. <i>Environmental Science & Technology</i> , 2016 , 50, 4018-26	10.3	79
90	A test of the additivity of acute toxicity of binary-metal mixtures of ni with Cd, Cu, and Zn to <i>Daphnia magna</i> , using the inflection point of the concentration-response curves. <i>Environmental Toxicology and Chemistry</i> , 2016 , 35, 1843-51	3.8	18
89	Physiological effects of essential metals on two detritivores: <i>Atyaephyra desmarestii</i> (Millet) and <i>Echinogammarus meridionalis</i> (Pinkster). <i>Environmental Toxicology and Chemistry</i> , 2016 , 35, 1442-8	3.8	2

88	Analysis of single-walled carbon nanotubes using spICP-MS with microsecond dwell time. <i>NanoImpact</i> , 2016 , 1, 65-72	5.6	16
87	Methods for the Detection and Characterization of Silica Colloids by Microsecond spICP-MS. <i>Analytical Chemistry</i> , 2016 , 88, 4733-41	7.8	27
86	Effect of Surface Charge and Elemental Composition on the Swelling and Delamination of Montmorillonite Nanoclays Using Sedimentation Field-flow Fractionation and Mass Spectroscopy. <i>Clays and Clay Minerals</i> , 2015 , 63, 457-468	2.1	12
85	Physical, chemical, and in vitro toxicological characterization of nanoparticles in chemical mechanical planarization suspensions used in the semiconductor industry: towards environmental health and safety assessments. <i>Environmental Science: Nano</i> , 2015 , 2, 227-244	7.1	46
84	Size Distributions. <i>Frontiers of Nanoscience</i> , 2015 , 8, 91-121	0.7	2
83	Weathering and transport of chromium and nickel from serpentinite in the Coast Range ophiolite to the Sacramento Valley, California, USA. <i>Applied Geochemistry</i> , 2015 , 61, 72-86	3.5	42
82	Biomonitoring of several toxic metal(loid)s in different biological matrices from environmentally and occupationally exposed populations from Panasqueira mine area, Portugal. <i>Environmental Geochemistry and Health</i> , 2014 , 36, 255-69	4.7	32
81	Cholinesterase activity on <i>Echinogammarus meridionalis</i> (Pinkster) and <i>Atyaephyra desmarestii</i> (Millet): characterisation and in vivo effects of copper and zinc. <i>Ecotoxicology</i> , 2014 , 23, 449-58	2.9	9
80	Sequestration of arsenate from aqueous solution using 2-line ferrihydrite: equilibria, kinetics, and X-ray absorption spectroscopic analysis. <i>Environmental Earth Sciences</i> , 2014 , 71, 3307-3318	2.9	9
79	Thioarsenic species associated with increased arsenic release during biostimulated subsurface sulfate reduction. <i>Environmental Science & Technology</i> , 2014 , 48, 13367-75	10.3	47
78	Quantitative resolution of nanoparticle sizes using single particle inductively coupled plasma mass spectrometry with the K-means clustering algorithm. <i>Journal of Analytical Atomic Spectrometry</i> , 2014 , 29, 1630	3.7	28
77	Nanoparticle size detection limits by single particle ICP-MS for 40 elements. <i>Environmental Science & Technology</i> , 2014 , 48, 10291-300	10.3	294
76	Release of TiO ₂ nanoparticles from sunscreens into surface waters: a one-year survey at the old Danube recreational Lake. <i>Environmental Science & Technology</i> , 2014 , 48, 5415-22	10.3	283
75	Nanopesticides: guiding principles for regulatory evaluation of environmental risks. <i>Journal of Agricultural and Food Chemistry</i> , 2014 , 62, 4227-40	5.7	210
74	Feeding preferences of two detritivores related to size and metal content of leaves: the crustaceans <i>Atyaephyra desmarestii</i> (Millet) and <i>Echinogammarus meridionalis</i> (Pinkster). <i>Environmental Science and Pollution Research</i> , 2014 , 21, 12325-35	5.1	3
73	Current status and future direction for examining engineered nanoparticles in natural systems. <i>Environmental Chemistry</i> , 2014 , 11, 351	3.2	88
72	The persistence and transformation of silver nanoparticles in littoral lake mesocosms monitored using various analytical techniques. <i>Environmental Chemistry</i> , 2014 , 11, 419	3.2	45
71	Detection of single walled carbon nanotubes by monitoring embedded metals. <i>Environmental Sciences: Processes and Impacts</i> , 2013 , 15, 204-13	4.3	50

70	Silver nanowire exposure results in internalization and toxicity to <i>Daphnia magna</i> . <i>ACS Nano</i> , 2013 , 7, 10681-94	16.7	101
69	Extraction and analysis of silver and gold nanoparticles from biological tissues using single particle inductively coupled plasma mass spectrometry. <i>Environmental Science & Technology</i> , 2013 , 47, 14315-23	10.3	165
68	Detection and characterization of uranium humic complexes during 1D transport studies. <i>Geochimica Et Cosmochimica Acta</i> , 2013 , 109, 127-142	5.5	10
67	Comparison of on-line detectors for field flow fractionation analysis of nanomaterials. <i>Talanta</i> , 2013 , 104, 140-8	6.2	69
66	Arsenic geochemistry in a biostimulated aquifer: an aqueous speciation study. <i>Environmental Toxicology and Chemistry</i> , 2013 , 32, 1216-23	3.8	23
65	Comparing the effects of nanosilver size and coating variations on bioavailability, internalization, and elimination, using <i>Lumbricus variegatus</i> . <i>Environmental Toxicology and Chemistry</i> , 2013 , 32, 2069-77	7.8	48
64	The effect of hardness on the stability of citrate-stabilized gold nanoparticles and their uptake by <i>Daphnia magna</i> . <i>Journal of Hazardous Materials</i> , 2012 , 213-214, 434-9	12.8	43
63	Solubility of nano-zinc oxide in environmentally and biologically important matrices. <i>Environmental Toxicology and Chemistry</i> , 2012 , 31, 93-9	3.8	216
62	Detecting nanoparticulate silver using single-particle inductively coupled plasma-mass spectrometry. <i>Environmental Toxicology and Chemistry</i> , 2012 , 31, 115-21	3.8	255
61	Potential scenarios for nanomaterial release and subsequent alteration in the environment. <i>Environmental Toxicology and Chemistry</i> , 2012 , 31, 50-9	3.8	457
60	Assessment of Young Dong tributary and Imgok Creek impacted by Young Dong coal mine, South Korea. <i>Environmental Geochemistry and Health</i> , 2012 , 34 Suppl 1, 95-103	4.7	1
59	Metal(loid) levels in biological matrices from human populations exposed to mining contamination--Panasqueira Mine (Portugal). <i>Journal of Toxicology and Environmental Health - Part A: Current Issues</i> , 2012 , 75, 893-908	3.2	53
58	An evaluation of trace metal distribution, enrichment factors and risk in sediments of a coastal lagoon (Ria de Aveiro, Portugal). <i>Environmental Earth Sciences</i> , 2012 , 67, 2043-2052	2.9	12
57	Bioavailability, toxicity, and bioaccumulation of quantum dot nanoparticles to the amphipod <i>Leptocheirus plumulosus</i> . <i>Environmental Science & Technology</i> , 2012 , 46, 5550-6	10.3	81
56	Analysis of gold nanoparticle mixtures: a comparison of hydrodynamic chromatography (HDC) and asymmetrical flow field-flow fractionation (AF4) coupled to ICP-MS. <i>Journal of Analytical Atomic Spectrometry</i> , 2012 , 27, 1532	3.7	102
55	Geochemical, mineralogical and microbiological characteristics of sediment from a naturally reduced zone in a uranium-contaminated aquifer. <i>Applied Geochemistry</i> , 2012 , 27, 1499-1511	3.5	99
54	Contaminant discharge and uncertainty estimates from passive flux meter measurements. <i>Water Resources Research</i> , 2012 , 48,	5.4	11
53	Single particle inductively coupled plasma-mass spectrometry: a performance evaluation and method comparison in the determination of nanoparticle size. <i>Environmental Science & Technology</i> , 2012 , 46, 12272-80	10.3	159

52	Overcoming challenges in analysis of polydisperse metal-containing nanoparticles by single particle inductively coupled plasma mass spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2012 , 27, 1093-7	3.7	88
51	Silver nanoparticle characterization using single particle ICP-MS (SP-ICP-MS) and asymmetrical flow field flow fractionation ICP-MS (AF4-ICP-MS). <i>Journal of Analytical Atomic Spectrometry</i> , 2012 , 27, 1131	3.7	208
50	Nanoparticles in the environment: stability and toxicity. <i>Reviews on Environmental Health</i> , 2012 , 27, 175-9	3.8	13
49	Field-Flow Fractionation Coupled to Inductively Coupled Plasma-Mass Spectrometry (FFF-ICP-MS): Methodology and Application to Environmental Nanoparticle Research 2012 , 277-299		4
48	Determining transport efficiency for the purpose of counting and sizing nanoparticles via single particle inductively coupled plasma mass spectrometry. <i>Analytical Chemistry</i> , 2011 , 83, 9361-9	7.8	457
47	Evaluation and application of anion exchange resins to measure groundwater uranium flux at a former uranium mill site. <i>Water Research</i> , 2011 , 45, 4866-76	12.5	18
46	Radionuclides, trace elements, and radium residence in phosphogypsum of Jordan. <i>Environmental Geochemistry and Health</i> , 2011 , 33, 149-65	4.7	16
45	Characterization of silver nanoparticles using flow-field flow fractionation interfaced to inductively coupled plasma mass spectrometry. <i>Journal of Chromatography A</i> , 2011 , 1218, 4219-25	4.5	146
44	Gadolinium deposition in nephrogenic systemic fibrosis: an examination of tissue using synchrotron x-ray fluorescence spectroscopy. <i>Journal of the American Academy of Dermatology</i> , 2010 , 62, 38-44	4.5	32
43	Distribution of potentially toxic metal and radionuclide contamination in soils related to phosphogypsum waste stockpiling in the Eshidiya Mine, Jordan. <i>Geochemistry: Exploration, Environment, Analysis</i> , 2010 , 10, 419-433	1.8	1
42	Influence of stability on the acute toxicity of CdSe/ZnS nanocrystals to <i>Daphnia magna</i> . <i>Environmental Toxicology and Chemistry</i> , 2010 , 29, 1338-44	3.8	54
41	Spatial variations in the fate and transport of metals in a mining-influenced stream, North Fork Clear Creek, Colorado. <i>Science of the Total Environment</i> , 2009 , 407, 6223-34	10.2	18
40	Synchrotron X-ray 2D and 3D elemental imaging of CdSe/ZnS quantum dot nanoparticles in <i>Daphnia magna</i> . <i>Analytical and Bioanalytical Chemistry</i> , 2009 , 394, 911-7	4.4	48
39	Reactive transport modeling of remedial scenarios to predict cadmium, copper, and zinc in north fork of Clear Creek, Colorado 2009 , 19, 101-119		2
38	An enriched stable-isotope approach to determine the gill-zinc binding properties of juvenile rainbow trout (<i>Oncorhynchus mykiss</i>) during acute zinc exposures in hard and soft waters. <i>Environmental Toxicology and Chemistry</i> , 2009 , 28, 1233-43	3.8	11
37	Analysis of pH dependent uranium(VI) sorption to nanoparticulate hematite by flow field-flow fractionation-inductively coupled plasma mass spectrometry. <i>Environmental Science & Technology</i> , 2009 , 43, 5403-9	10.3	27
36	Measurement of total Zn and Zn isotope ratios by quadrupole ICP-MS for evaluation of Zn uptake in gills of brown trout (<i>Salmo trutta</i>) and rainbow trout (<i>Oncorhynchus mykiss</i>). <i>Talanta</i> , 2009 , 80, 676-84	6.2	6
35	Metal deposition in calcific uremic arteriolopathy. <i>Journal of the American Academy of Dermatology</i> , 2009 , 61, 73-9	4.5	24

34	A regional-scale study of chromium and nickel in soils of northern California, USA. <i>Applied Geochemistry</i> , 2009 , 24, 1500-1511	3.5	79
33	Direct versus indirect determination of suspended sediment associated metals in a mining-influenced watershed. <i>Applied Geochemistry</i> , 2008 , 23, 1218-1231	3.5	16
32	Observed and modeled seasonal trends in dissolved and particulate Cu, Fe, Mn, and Zn in a mining-impacted stream. <i>Water Research</i> , 2008 , 42, 3135-45	12.5	37
31	Cardiac and vascular metal deposition with high mortality in nephrogenic systemic fibrosis. <i>Kidney International</i> , 2008 , 73, 1413-8	9.9	86
30	Nanoparticle analysis and characterization methodologies in environmental risk assessment of engineered nanoparticles. <i>Ecotoxicology</i> , 2008 , 17, 344-61	2.9	486
29	The development of bio-carbon adsorbents from Lodgepole Pine to remediate acid mine drainage in the Rocky Mountains. <i>Biomass and Bioenergy</i> , 2008 , 32, 267-276	5.3	15
28	Quantifying uranium complexation by groundwater dissolved organic carbon using asymmetrical flow field-flow fractionation. <i>Journal of Contaminant Hydrology</i> , 2007 , 91, 233-46	3.9	50
27	A Simple Scheme to Determine Potential Aquatic Metal Toxicity from Mining Wastes. <i>Environmental Forensics</i> , 2007 , 8, 119-128	1.6	3
26	Distribution and mode of occurrences of radionuclides in phosphogypsum from the Aqaba and Eshidiya fertilizer plants, Jordan. <i>Diqiu Huaxue</i> , 2006 , 25, 178-178		
25	Dermally adhered soil: 1. Amount and particle-size distribution. <i>Integrated Environmental Assessment and Management</i> , 2006 , 2, 375-384	2.5	71
24	Dermally adhered soil: 2. Reconstruction of dry-sieve particle-size distributions from wet-sieve data. <i>Integrated Environmental Assessment and Management</i> , 2006 , 2, 385-390	2.5	14
23	Natural organic matter. <i>Interface Science and Technology</i> , 2006 , 299-315	2.3	7
22	Coupled Microbial and Chemical Reactions in Uranium Bioremediation 2006 , 183-190		
21	Evidence for the aquatic binding of arsenate by natural organic matter-suspended Fe(III). <i>Environmental Science & Technology</i> , 2006 , 40, 5380-7	10.3	108
20	Bioavailability of sediment-associated Cu and Zn to <i>Daphnia magna</i> . <i>Aquatic Toxicology</i> , 2006 , 77, 402-115.1		16
19	PREDICTING TOXIC EFFECTS OF COPPER ON AQUATIC BIOTA IN MINERALIZED AREAS BY USING THE BIOTIC LIGAND MODEL. <i>Journal of the American Society of Mining and Reclamation</i> , 2006 , 2006, 2055-2077 ²	2.5	2077 ²
18	Application of flow field flow fractionation-ICPMS for the study of uranium binding in bacterial cell suspensions. <i>Analytical Chemistry</i> , 2005 , 77, 1393-7	7.8	23
17	Characterization of colloidal and humic-bound Ni and U in the "dissolved" fraction of contaminated sediment extracts. <i>Environmental Science & Technology</i> , 2005 , 39, 2478-85	10.3	64

16	Effects of iron on arsenic speciation and redox chemistry in acid mine water. <i>Journal of Geochemical Exploration</i> , 2005 , 85, 55-62	3.8	56
15	Daphnia need to be gut-cleared too: the effect of exposure to and ingestion of metal-contaminated sediment on the gut-clearance patterns of <i>D. magna</i> . <i>Aquatic Toxicology</i> , 2005 , 71, 143-54	5.1	73
14	Particle-Size and Element Distributions of Soil Colloids. <i>Soil Science Society of America Journal</i> , 2005 , 69, 1173-1184	2.5	62
13	Field and laboratory arsenic speciation methods and their application to natural-water analysis. <i>Water Research</i> , 2004 , 38, 355-64	12.5	92
12	Photodegradation of roxarsone in poultry litter leachates. <i>Science of the Total Environment</i> , 2003 , 302, 237-45	10.2	130
11	The iron status in colloidal matter from the Rio Negro, Brasil. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2003 , 217, 1-9	5.1	49
10	Presence of organoarsenicals used in cotton production in agricultural water and soil of the southern United States. <i>Journal of Agricultural and Food Chemistry</i> , 2002 , 50, 7340-4	5.7	73
9	Preserving the distribution of inorganic arsenic species in groundwater and acid mine drainage samples. <i>Environmental Science & Technology</i> , 2002 , 36, 2213-8	10.3	163
8	Field-flow fractionation characterization and binding properties of particulate and colloidal organic matter from the Rio Amazon and Rio Negro. <i>Organic Geochemistry</i> , 2002 , 33, 269-279	3.1	67
7	Evaluation of Different Field-Flow Fractionation Techniques for Separating Bacteria. <i>Separation Science and Technology</i> , 2000 , 35, 1761-1775	2.5	30
6	Development of sedimentation field-flow fractionation-inductively coupled plasma mass-spectrometry for the characterization of environmental colloids. <i>Analytica Chimica Acta</i> , 1999 , 381, 315-329	6.6	73
5	Differentiation of colloidal and dissolved silica: analytical separation using spectrophotometry and inductively coupled plasma atomic emission spectrometry. <i>Analytica Chimica Acta</i> , 1991 , 249, 509-511	6.6	2
4	Use of a single-bowl continuous-flow centrifuge for dewatering suspended sediments: Effect on sediment physical and chemical characteristics. <i>Hydrological Processes</i> , 1991 , 5, 201-214	3.3	32
3	Collection and analysis of colloidal particles transported in the Mississippi River, U.S.A.. <i>Journal of Contaminant Hydrology</i> , 1990 , 6, 241-250	3.9	33
2	It is raining plastic. <i>US Geological Survey Open-File Report</i> ,		10
1	Assessing CeO ₂ and TiO ₂ Nanoparticle Concentrations in the Seine River and Its Tributaries Near Paris. <i>Frontiers in Environmental Science</i> , 8 ,	4.8	3