Denise M Mitrano

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.

45 papers	2,824 citations	27 h-index	52 g-index
52 ext. papers	3,529 ext. citations	10.7 avg, IF	5.98 L-index

#	Paper	IF	Citations
45	Polyester Textiles as a Source of Microplastics from Households: A Mechanistic Study to Understand Microfiber Release During Washing. *Environmental Science & Technology*, **2017**, 51, 7036-7046	10.3	285
44	Review of nanomaterial aging and transformations through the life cycle of nano-enhanced products. *Environment International*, **2015**, 77, 132-47	12.9	277
43	Detecting nanoparticulate silver using single-particle inductively coupled plasma-mass spectrometry. *Environmental Toxicology and Chemistry*, **2012**, 31, 115-21	3.8	255
42	Silver nanoparticle characterization using single particle ICP-MS (SP-ICP-MS) and asymmetrical flow field flow fractionation ICP-MS (AF4-ICP-MS). *Journal of Analytical Atomic Spectrometry*, **2012**, 27, 1131	3.7	208
41	Presence of nanoparticles in wash water from conventional silver and nano-silver textiles. *ACS Nano*, **2014**, 8, 7208-19	16.7	206
40	Characterization of silver nanoparticles using flow-field flow fractionation interfaced to inductively coupled plasma mass spectrometry. *Journal of Chromatography A*, **2011**, 1218, 4219-25	4.5	146
39	Tracking dissolution of silver nanoparticles at environmentally relevant concentrations in laboratory, natural, and processed waters using single particle ICP-MS (spICP-MS). *Environmental Science: Nano*, **2014**, 1, 248-259	7.1	127
38	Are nanosized or dissolved metals more toxic in the environment? A meta-analysis. *Environmental Toxicology and Chemistry*, **2014**, 33, 2733-9	3.8	105
37	Synthesis of metal-doped nanoplastics and their utility to investigate fate and behaviour in complex environmental systems. *Nature Nanotechnology*, **2019**, 14, 362-368	28.7	99
36	Progress towards the validation of modeled environmental concentrations of engineered nanomaterials by analytical measurements. *Environmental Science: Nano*, **2015**, 2, 421-428	7.1	94
35	Envisioning Nano Release Dynamics in a Changing World: Using Dynamic Probabilistic Modeling to Assess Future Environmental Emissions of Engineered Nanomaterials. *Environmental Science & Technology*, **2017**, 51, 2854-2863	10.3	91
34	Microplastic regulation should be more precise to incentivize both innovation and environmental safety. *Nature Communications*, **2020**, 11, 5324	17.4	75
33	Comparison of on-line detectors for field flow fractionation analysis of nanomaterials. *Talanta*, **2013**, 104, 140-8	6.2	69
32	Placing nanoplastics in the context of global plastic pollution. *Nature Nanotechnology*, **2021**, 16, 491-500	28.7	62
31	Systematic Study of Microplastic Fiber Release from 12 Different Polyester Textiles during Washing. *Environmental Science & Technology*, **2020**, 54, 4847-4855	10.3	60
30	Transport of Nano- and Microplastic through Unsaturated Porous Media from Sewage Sludge Application. *Environmental Science & Technology*, **2020**, 54, 911-920	10.3	58
29	A review of the fate of engineered nanomaterials in municipal solid waste streams. *Waste Management*, **2018**, 75, 427-449	8.6	57

28	Textile Functionalization and Its Effects on the Release of Silver Nanoparticles into Artificial Sweat. *Environmental Science & Technology*, **2016**, 50, 5927-34	10.3	50
27	The persistence and transformation of silver nanoparticles in littoral lake mesocosms monitored using various analytical techniques. *Environmental Chemistry*, **2014**, 11, 419	3.2	45
26	Unraveling the Complexity in the Aging of Nanoenhanced Textiles: A Comprehensive Sequential Study on the Effects of Sunlight and Washing on Silver Nanoparticles. *Environmental Science & Technology*, **2016**, 50, 5790-9	10.3	41
25	The need for a life-cycle based aging paradigm for nanomaterials: importance of real-world test systems to identify realistic particle transformations. *Nanotechnology*, **2017**, 28, 072001	3.4	39
24	Long-term assessment of nanoplastic particle and microplastic fiber flux through a pilot wastewater treatment plant using metal-doped plastics. *Water Research*, **2020**, 182, 115860	12.5	36
23	Effect of Variations of Washing Solution Chemistry on Nanomaterial Physicochemical Changes in the Laundry Cycle. *Environmental Science & Technology*, **2015**, 49, 9665-73	10.3	35
22	Durability of nano-enhanced textiles through the life cycle: releases from landfilling after washing. *Environmental Science: Nano*, **2016**, 3, 375-387	7.1	33
21	Improvements in Nanoparticle Tracking Analysis To Measure Particle Aggregation and Mass Distribution: A Case Study on Engineered Nanomaterial Stability in Incineration Landfill Leachates. *Environmental Science & Technology*, **2017**, 51, 5611-5621	10.3	28
20	Mobility of metallic (nano)particles in leachates from landfills containing waste incineration residues. *Environmental Science: Nano*, **2017**, 4, 480-492	7.1	28
19	Mechanistic understanding of microplastic fiber fate and sampling strategies: Synthesis and utility of metal doped polyester fibers. *Water Research*, **2019**, 155, 423-430	12.5	28
18	The origin of microplastic fiber in polyester textiles: The textile production process matters. *Journal of Cleaner Production*, **2020**, 267, 121970	10.3	25
17	Procedures for the production and use of synthetically aged and product released nanomaterials for further environmental and ecotoxicity testing. *NanoImpact*, **2018**, 10, 70-80	5.6	21
16	Multi-perspective application selection: a method to identify sustainable applications for new materials using the example of cellulose nanofiber reinforced composites. *Journal of Cleaner Production*, **2016**, 112, 1199-1210	10.3	20
15	A Nanoplastic Sampling and Enrichment Approach by Continuous Flow Centrifugation. *Frontiers in Environmental Science*, **2020**, 8,	4.8	20
14	Microplastic fibre releases from industrial wastewater effluent: a textile wet-processing mill in China. *Environmental Chemistry*, **2021**, 18, 93	3.2	14
13	Mechanical phase inversion of Pickering emulsions via metastable wetting of rough colloids. *Soft Matter*, **2019**, 15, 7888-7900	3.6	13
12	Impacts of Nanoplastics on the Viability and Riboflavin Secretion in the Model Bacteria Shewanella oneidensis. *Frontiers in Environmental Science*, **2020**, 8,	4.8	12
11	Formation of Fiber Fragments during Abrasion of Polyester Textiles. *Environmental Science & Technology*, **2021**, 55, 8001-8009	10.3	12

10	Metal-doping of nanoplastics enables accurate assessment of uptake and effects on. *Environmental Science: Nano*, **2021**, 8, 1761-1770	7.1	10
9	Agglomeration potential of TiO in synthetic leachates made from the fly ash of different incinerated wastes. *Environmental Pollution*, **2017**, 223, 616-623	9.3	9
8	Demonstrating the translocation of nanoplastics across the fish intestine using palladium-doped polystyrene in a salmon gut-sac.. *Environment International*, **2021**, 159, 106994	12.9	8
7	Earthworms ingest microplastic fibres and nanoplastics with effects on egestion rate and long-term retention. *Science of the Total Environment*, **2021**, 151022	10.2	7
6	Nanoplastic Transport in Soil via Bioturbation by. *Environmental Science & Technology*, **2021**,	10.3	3
5	What is Environmentally Relevant A framework to advance research on the environmental fate and effects of engineered nanomaterials. *Environmental Science: Nano*, **2021**, 8, 2414-2429	7.1	3
4	The analytical quest for sub-micron plastics in biological matrices. *Nano Today*, **2021**, 41, 101296	17.9	3
3	Assessing implications of nanoplastics exposure to plants with advanced nanometrology techniques.. *Journal of Hazardous Materials*, **2022**, 430, 128356	12.8	1
2	Nanoplastics Removal During Drinking Water Treatment: Laboratory- and Pilot-scale Experiments and Modeling. *Journal of Hazardous Materials*, **2022**, 129011	12.8	1
1	The Effect of Drinking Water Ozonation on Different Types of Submicron Plastic Particles. *Springer Water*, **2020**, 152-157	0.3	0