

# Nathalie Tufenkji

## 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.

148  
papers

10,732  
citations

50  
h-index

101  
g-index

164  
ext. papers

12,953  
ext. citations

8.5  
avg, IF

7.06  
L-index

#	Paper	IF	Citations
148	Weathering pathways and protocols for environmentally relevant microplastics and nanoplastics: What are we missing?. <i>Journal of Hazardous Materials</i> , <b>2022</b> , 423, 126955	12.8	12
147	Metabolic Consequences of Developmental Exposure to Polystyrene Nanoplastics, the Flame Retardant BDE-47 and Their Combination in Zebrafish.. <i>Frontiers in Pharmacology</i> , <b>2022</b> , 13, 822111	5.6	0
146	From freshwaters to bivalves: Microplastic distribution along the Saint-Lawrence river-to-sea continuum.. <i>Journal of Hazardous Materials</i> , <b>2022</b> , 435, 128977	12.8	0
145	Single-Particle Resolution Fluorescence Microscopy of Nanoplastics.. <i>Environmental Science &amp; Technology</i> , <b>2022</b> , 56, 6426-6435	10.3	3
144	Sustainable iron-grafted cellulose fibers enable coagulant recycling and improve contaminant removal in water treatment. <i>Chemical Engineering Journal</i> , <b>2021</b> , 430, 132927	14.7	1
143	Nanoplastics are neither microplastics nor engineered nanoparticles. <i>Nature Nanotechnology</i> , <b>2021</b> , 16, 501-507	28.7	89
142	Exposure of nanoplastics to freeze-thaw leads to aggregation and reduced transport in model groundwater environments. <i>Water Research</i> , <b>2021</b> , 189, 116533	12.5	18
141	Green synthesis of carbon dots and their applications.. <i>RSC Advances</i> , <b>2021</b> , 11, 25354-25363	3.7	21
140	Polystyrene micro- and nanoplastics affect locomotion and daily activity of <i>Drosophila melanogaster</i> . <i>Environmental Science: Nano</i> , <b>2021</b> , 8, 110-121	7.1	9
139	Polymer-Free Emulsion-Templated Graphene-Based Sponges for Contaminant Removal. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 52095-52103	9.5	5
138	Primary and Secondary Plastic Particles Exhibit Limited Acute Toxicity but Chronic Effects on. <i>Environmental Science &amp; Technology</i> , <b>2020</b> , 54, 6859-6868	10.3	44
137	Hydrophilic Mechano-Bactericidal Nanopillars Require External Forces to Rapidly Kill Bacteria. <i>Nano Letters</i> , <b>2020</b> , 20, 5720-5727	11.5	22
136	Understanding and Improving Microplastic Removal during Water Treatment: Impact of Coagulation and Flocculation. <i>Environmental Science &amp; Technology</i> , <b>2020</b> , 54, 8719-8727	10.3	78
135	Green Synthesis of High Quantum Yield Carbon Dots from Phenylalanine and Citric Acid: Role of Stoichiometry and Nitrogen Doping. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2020</b> , 8, 5566-5575	8.3	22
134	Reply to the 'Comment on "Hierarchically porous, ultra-strong reduced graphene oxide-cellulose nanocrystal sponges for exceptional adsorption of water contaminants"' by J. Ma, Y. Xiong and F. Yu, <i>Nanoscale</i> , 2019, 11, DOI: 10.1039/C8NR08780F. <i>Nanoscale</i> , <b>2020</b> , 12, 9899-9901	7.7	1
133	Effect of freeze/thaw on aggregation and transport of nano-TiO <sub>2</sub> in saturated porous media. <i>Environmental Science: Nano</i> , <b>2020</b> , 7, 1781-1793	7.1	8
132	Harmonizing across environmental nanomaterial testing media for increased comparability of nanomaterial datasets. <i>Environmental Science: Nano</i> , <b>2020</b> , 7, 13-36	7.1	23

131	Release of TiO <sub>2</sub> nanoparticles from painted surfaces in cold climates: characterization using a high sensitivity single-particle ICP-MS. <i>Environmental Science: Nano</i> , <b>2020</b> , 7, 139-148	7.1	19
130	Response to Comment on "Plastic Teabags Release Billions of Microparticles and Nanoparticles into Tea". <i>Environmental Science &amp; Technology</i> , <b>2020</b> , 54, 14136-14137	10.3	3
129	Biofilm formation by marine bacteria is impacted by concentration and surface functionalization of polystyrene nanoparticles in a species-specific manner. <i>Environmental Microbiology Reports</i> , <b>2020</b> , 12, 203-213	3.7	20
128	Technology readiness and overcoming barriers to sustainably implement nanotechnology-enabled plant agriculture. <i>Nature Food</i> , <b>2020</b> , 1, 416-425	14.4	90
127	Single- and Multi-Element Quantification and Characterization of TiO <sub>2</sub> Nanoparticles Released From Outdoor Stains and Paints. <i>Frontiers in Environmental Science</i> , <b>2020</b> , 8,	4.8	19
126	Highly Absorbent Antibacterial and Biofilm-Disrupting Hydrogels from Cellulose for Wound Dressing Applications. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 39991-40001	9.5	23
125	Graphene oxide sponge as adsorbent for organic contaminants: comparison with granular activated carbon and influence of water chemistry. <i>Environmental Science: Nano</i> , <b>2020</b> , 7, 2669-2680	7.1	9
124	Engineering Polymer Forest on Membranes: Tuning Density, Thickness, and Architecture for Biofouling Control. <i>ACS Applied Polymer Materials</i> , <b>2020</b> , 2, 4592-4603	4.3	3
123	Plastic Teabags Release Billions of Microparticles and Nanoparticles into Tea. <i>Environmental Science &amp; Technology</i> , <b>2019</b> , 53, 12300-12310	10.3	276
122	Microfluidic Shear Assay to Distinguish between Bacterial Adhesion and Attachment Strength on Stiffness-Tunable Silicone Substrates. <i>Langmuir</i> , <b>2019</b> , 35, 8840-8849	4	12
121	Nano-enabled strategies to enhance crop nutrition and protection. <i>Nature Nanotechnology</i> , <b>2019</b> , 14, 532-540	28.7	284
120	Proanthocyanidin Interferes with Intrinsic Antibiotic Resistance Mechanisms of Gram-Negative Bacteria. <i>Advanced Science</i> , <b>2019</b> , 6, 1802333	13.6	21
119	Separation and Analysis of Microplastics and Nanoplastics in Complex Environmental Samples. <i>Accounts of Chemical Research</i> , <b>2019</b> , 52, 858-866	24.3	222
118	Self-Assembly of Ultralarge Graphene Oxide Nanosheets and Alginate into Layered Nanocomposites for Robust Packaging Materials. <i>ACS Applied Nano Materials</i> , <b>2019</b> , 2, 1431-1444	5.6	7
117	Comparing TiO <sub>2</sub> nanoparticle formulations: stability and photoreactivity are key factors in acute toxicity to <i>Daphnia magna</i> . <i>Environmental Science: Nano</i> , <b>2019</b> , 6, 2532-2543	7.1	13
116	Antimicrobial Hierarchically Porous Graphene Oxide Sponges for Water Treatment.. <i>ACS Applied Bio Materials</i> , <b>2019</b> , 2, 1578-1590	4.1	17
115	Artificial turf infill associated with systematic toxicity in an amniote vertebrate. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2019</b> , 116, 25156-25161	11.5	6
114	Development and characterization of silver-doped sol-gel-derived borate glasses with anti-bacterial activity. <i>Journal of Non-Crystalline Solids</i> , <b>2019</b> , 505, 438-446	3.9	19

113	Environmental performance of graphene-based 3D macrostructures. <i>Nature Nanotechnology</i> , <b>2019</b> , 14, 107-119	28.7	203
112	Toxicity Assessments of Micro- and Nanoplastics Can Be Confounded by Preservatives in Commercial Formulations. <i>Environmental Science and Technology Letters</i> , <b>2019</b> , 6, 21-25	11	56
111	Bacteriophage-based strategies for biofouling control in ultrafiltration: In situ biofouling mitigation, biocidal additives and biofilm cleanser. <i>Journal of Colloid and Interface Science</i> , <b>2018</b> , 523, 254-265	9.3	28
110	Amendment of Agricultural Soil with Metal Nanoparticles: Effects on Soil Enzyme Activity and Microbial Community Composition. <i>Environmental Science &amp; Technology</i> , <b>2018</b> , 52, 1908-1918	10.3	114
109	Nanodarts, nanoblades, and nanospikes: Mechano-bactericidal nanostructures and where to find them. <i>Advances in Colloid and Interface Science</i> , <b>2018</b> , 252, 55-68	14.3	68
108	Microplastics and Nanoplastics in Aquatic Environments: Aggregation, Deposition, and Enhanced Contaminant Transport. <i>Environmental Science &amp; Technology</i> , <b>2018</b> , 52, 1704-1724	10.3	834
107	Hierarchically porous, ultra-strong reduced graphene oxide-cellulose nanocrystal sponges for exceptional adsorption of water contaminants. <i>Nanoscale</i> , <b>2018</b> , 10, 7171-7184	7.7	58
106	QCM-D and NanoTweezer measurements to characterize the effect of soil cellulase on the deposition of PEG-coated TiO <sub>2</sub> nanoparticles in model subsurface environments. <i>Environmental Science: Nano</i> , <b>2018</b> , 5, 2172-2183	7.1	5
105	Partitioning and Accumulation of Perfluoroalkyl Substances in Model Lipid Bilayers and Bacteria. <i>Environmental Science &amp; Technology</i> , <b>2018</b> , 52, 10433-10440	10.3	44
104	Exposure to Freeze-Thaw Conditions Increases Virulence of <i>Pseudomonas aeruginosa</i> to <i>Drosophila melanogaster</i> . <i>Environmental Science &amp; Technology</i> , <b>2018</b> , 52, 14180-14186	10.3	4
103	Natural freeze-thaw cycles may increase the risk associated with contamination in surface and groundwater environments. <i>Water Research X</i> , <b>2018</b> , 1, 100005	8.1	7
102	Anodized Aluminum with Nanoholes Impregnated with Quaternary Ammonium Compounds Can Kill Pathogenic Bacteria within Seconds of Contact. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 41207-41214	9.5	149
101	Evaluating the Cell Membrane Penetration Potential of Lipid-Soluble Compounds Using Supported Phospholipid Bilayers. <i>Analytical Chemistry</i> , <b>2018</b> , 90, 11174-11178	7.8	3
100	Developing Antibacterial Nanocrystalline Cellulose Using Natural Antibacterial Agents. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 33827-33838	9.5	63
99	Overcoming Interfacial Scaling Using Engineered Nanocelluloses: A QCM-D Study. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 34553-34560	9.5	4
98	Antibacterial Properties of PLGA Electrospun Scaffolds Containing Ciprofloxacin Incorporated by Blending or Physisorption.. <i>ACS Applied Bio Materials</i> , <b>2018</b> , 1, 627-635	4.1	20
97	Effect of gold nanoparticles on extracellular nutrient-cycling enzyme activity and bacterial community in soil slurries: role of nanoparticle size and surface coating. <i>Environmental Science: Nano</i> , <b>2017</b> , 4, 907-918	7.1	26
96	An improved experimental methodology to evaluate the effectiveness of protective gloves against nanoparticles in suspension. <i>Journal of Occupational and Environmental Hygiene</i> , <b>2017</b> , 14, D95-D101	2.9	3

95	Role of Cell Appendages in Initial Attachment and Stability of E. coli on Silica Monitored by Nondestructive TIRF Microscopy. <i>Langmuir</i> , <b>2017</b> , 33, 4066-4075	4	8
94	<i>Chlamydomonas reinhardtii</i> displays aversive swimming response to silver nanoparticles. <i>Environmental Science: Nano</i> , <b>2017</b> , 4, 1328-1338	7.1	6
93	Transformations of silver nanoparticles in wastewater effluents: links to Ag bioavailability. <i>Environmental Science: Nano</i> , <b>2017</b> , 4, 1339-1349	7.1	46
92	Are There Nanoplastics in Your Personal Care Products?. <i>Environmental Science and Technology Letters</i> , <b>2017</b> , 4, 280-285	11	262
91	Assessing the transport potential of polymeric nanocapsules developed for crop protection. <i>Water Research</i> , <b>2017</b> , 111, 10-17	12.5	40
90	Electrochemical disinfection of bacteria-laden water using antimony-doped tin-tungsten-oxide electrodes. <i>Water Research</i> , <b>2017</b> , 126, 299-307	12.5	49
89	Microfluidics in microbiology: putting a magnifying glass on microbes. <i>Integrative Biology (United Kingdom)</i> , <b>2016</b> , 8, 914-917	3.7	7
88	One-pot green synthesis of anisotropic silver nanoparticles. <i>Environmental Science: Nano</i> , <b>2016</b> , 3, 1259-1264	16	
87	Cranberry-derived proanthocyanidins impair virulence and inhibit quorum sensing of <i>Pseudomonas aeruginosa</i> . <i>Scientific Reports</i> , <b>2016</b> , 6, 30169	4.9	62
86	Hydrophobicity of biofilm coatings influences the transport dynamics of polystyrene nanoparticles in biofilm-coated sand. <i>Water Research</i> , <b>2016</b> , 92, 113-20	12.5	45
85	In Situ Silver Decoration on Graphene Oxide-Treated Thin Film Composite Forward Osmosis Membranes: Biocidal Properties and Regeneration Potential. <i>Environmental Science and Technology Letters</i> , <b>2016</b> , 3, 13-18	11	72
84	Effects of Rhamnolipid and Carboxymethylcellulose Coatings on Reactivity of Palladium-Doped Nanoscale Zerovalent Iron Particles. <i>Environmental Science &amp; Technology</i> , <b>2016</b> , 50, 1812-20	10.3	38
83	Interaction between palladium-doped zerovalent iron nanoparticles and biofilm in granular porous media: characterization, transport and viability. <i>Environmental Science: Nano</i> , <b>2016</b> , 3, 127-137	7.1	11
82	Probing the Interaction between Nanoparticles and Lipid Membranes by Quartz Crystal Microbalance with Dissipation Monitoring. <i>Frontiers in Chemistry</i> , <b>2016</b> , 4, 46	5	28
81	Optimizing Bacteriophage Surface Densities for Bacterial Capture and Sensing in Quartz Crystal Microbalance with Dissipation Monitoring. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 13698-706	9.5	23
80	Toward More Free-Floating Model Cell Membranes: Method Development and Application to Their Interaction with Nanoparticles. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 14339-48	9.5	25
79	Cranberry derivatives enhance biofilm formation and transiently impair swarming motility of the uropathogen <i>Proteus mirabilis</i> HI4320. <i>Canadian Journal of Microbiology</i> , <b>2016</b> , 62, 464-74	3.2	10
78	Spray- and spin-assisted layer-by-layer assembly of copper nanoparticles on thin-film composite reverse osmosis membrane for biofouling mitigation. <i>Water Research</i> , <b>2016</b> , 99, 188-199	12.5	85

77	Cellulose nanocrystals with tunable surface charge for nanomedicine. <i>Nanoscale</i> , <b>2015</b> , 7, 16647-57	7.7	68
76	Polyphenolic extract from maple syrup potentiates antibiotic susceptibility and reduces biofilm formation of pathogenic bacteria. <i>Applied and Environmental Microbiology</i> , <b>2015</b> , 81, 3782-92	4.8	43
75	QCM-D for non-destructive real-time assessment of <i>Pseudomonas aeruginosa</i> biofilm attachment to the substratum during biofilm growth. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2015</b> , 136, 928-34	6	25
74	Reduced transport potential of a palladium-doped zero valent iron nanoparticle in a water saturated loamy sand. <i>Water Research</i> , <b>2015</b> , 68, 354-63	12.5	37
73	Effect of tannic and gallic acids alone or in combination with carbenicillin or tetracycline on <i>Chromobacterium violaceum</i> CV026 growth, motility, and biofilm formation. <i>Canadian Journal of Microbiology</i> , <b>2015</b> , 61, 487-94	3.2	7
72	Transport, motility, biofilm forming potential and survival of <i>Bacillus subtilis</i> exposed to cold temperature and freeze-thaw. <i>Water Research</i> , <b>2014</b> , 58, 239-47	12.5	18
71	Investigating electrochemical removal of bacterial biofilms from stainless steel substrates. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2014</b> , 117, 152-7	6	27
70	The road to nowhere: equilibrium partition coefficients for nanoparticles. <i>Environmental Science: Nano</i> , <b>2014</b> , 1, 317-323	7.1	116
69	Direct detection of the gel-fluid phase transition of a single supported phospholipid bilayer using quartz crystal microbalance with dissipation monitoring. <i>Analytical Chemistry</i> , <b>2014</b> , 86, 8017-20	7.8	22
68	Evaluating the binding of selected biomolecules to cranberry derived proanthocyanidins using the quartz crystal microbalance. <i>Biomacromolecules</i> , <b>2014</b> , 15, 1375-81	6.9	8
67	Effects of environmental and clinical interferents on the host capture efficiency of immobilized bacteriophages. <i>Langmuir</i> , <b>2014</b> , 30, 3184-90	4	17
66	Transport of industrial PVP-stabilized silver nanoparticles in saturated quartz sand coated with <i>Pseudomonas aeruginosa</i> PAO1 biofilm of variable age. <i>Environmental Science &amp; Technology</i> , <b>2014</b> , 48, 2715-23	10.3	55
65	Going viral: designing bioactive surfaces with bacteriophage. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2014</b> , 124, 2-16	6	48
64	Alkaloids modulate motility, biofilm formation and antibiotic susceptibility of uropathogenic <i>Escherichia coli</i> . <i>PLoS ONE</i> , <b>2014</b> , 9, e112093	3.7	31
63	Interpreting Deposition Behavior of Polydisperse Surface-Modified Nanoparticles Using QCM-D and Sand-Packed Columns. <i>Environmental Engineering Science</i> , <b>2014</b> , 31, 326-337	2	15
62	Straining of polyelectrolyte-stabilized nanoscale zero valent iron particles during transport through granular porous media. <i>Water Research</i> , <b>2014</b> , 50, 80-9	12.5	94
61	Inhibition of bacterial motility and spreading via release of cranberry derived materials from silicone substrates. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2013</b> , 110, 275-80	6	9
60	Using the quartz crystal microbalance with dissipation monitoring to evaluate the size of nanoparticles deposited on surfaces. <i>ACS Nano</i> , <b>2013</b> , 7, 7833-43	16.7	72

59	Deposition kinetics of quantum dots and polystyrene latex nanoparticles onto alumina: role of water chemistry and particle coating. <i>Environmental Science &amp; Technology</i> , <b>2013</b> , 47, 2212-20	10.3	43
58	Cranberry impairs selected behaviors essential for virulence in <i>Proteus mirabilis</i> HI4320. <i>Canadian Journal of Microbiology</i> , <b>2013</b> , 59, 430-6	3.2	15
57	Mobility of nanosized cerium dioxide and polymeric capsules in quartz and loamy sands saturated with model and natural groundwaters. <i>Water Research</i> , <b>2013</b> , 47, 5889-900	12.5	36
56	Rhamnolipid biosurfactant and soy protein act as effective stabilizers in the aggregation and transport of palladium-doped zerovalent iron nanoparticles in saturated porous media. <i>Environmental Science &amp; Technology</i> , <b>2013</b> , 47, 13355-64	10.3	74
55	Short-term inactivation rates of selected Gram-positive and Gram-negative bacteria attached to metal oxide mineral surfaces: role of solution and surface chemistry. <i>Environmental Science &amp; Technology</i> , <b>2013</b> , 47, 5729-37	10.3	20
54	Formation of biofilms under phage predation: considerations concerning a biofilm increase. <i>Biofouling</i> , <b>2013</b> , 29, 457-68	3.3	61
53	Role of cold climate and freeze-thaw on the survival, transport, and virulence of <i>Yersinia enterocolitica</i> . <i>Environmental Science &amp; Technology</i> , <b>2013</b> , 47, 14169-77	10.3	17
52	Impact of Media Aging on the Removal of <i>Cryptosporidium</i> in Granular Media Filters. <i>Journal of Environmental Engineering, ASCE</i> , <b>2013</b> , 139, 603-611	2	4
51	Evolution of <i>Pseudomonas aeruginosa</i> virulence as a result of phage predation. <i>Applied and Environmental Microbiology</i> , <b>2013</b> , 79, 6110-6	4.8	47
50	Impact of kaolinite clay particles on the filtration of <i>Cryptosporidium</i> -sized microspheres. <i>Water Science and Technology: Water Supply</i> , <b>2013</b> , 13, 1583-1592	1.4	2
49	Pomegranate materials inhibit flagellin gene expression and flagellar-propelled motility of uropathogenic <i>Escherichia coli</i> strain CFT073. <i>FEMS Microbiology Letters</i> , <b>2012</b> , 334, 87-94	2.9	17
48	Preparation and Thermo-Mechanical Characterization of Chitosan Loaded Methylcellulose-Based Biodegradable Films: Effects of Gamma Radiation. <i>Journal of Polymers and the Environment</i> , <b>2012</b> , 20, 43-52	4.5	14
47	Mobility of functionalized quantum dots and a model polystyrene nanoparticle in saturated quartz sand and loamy sand. <i>Environmental Science &amp; Technology</i> , <b>2012</b> , 46, 4449-57	10.3	76
46	Transport of two metal oxide nanoparticles in saturated granular porous media: role of water chemistry and particle coating. <i>Water Research</i> , <b>2012</b> , 46, 1273-85	12.5	89
45	Aggregation and deposition kinetics of carboxymethyl cellulose-modified zero-valent iron nanoparticles in porous media. <i>Water Research</i> , <b>2012</b> , 46, 1735-44	12.5	115
44	Tannin derived materials can block swarming motility and enhance biofilm formation in <i>Pseudomonas aeruginosa</i> . <i>Biofouling</i> , <b>2012</b> , 28, 1063-76	3.3	39
43	Transport behavior of selected nanoparticles with different surface coatings in granular porous media coated with <i>Pseudomonas aeruginosa</i> biofilm. <i>Environmental Science &amp; Technology</i> , <b>2012</b> , 46, 6942-9	10.3	76
42	Physicochemical characterization of engineered nanoparticles under physiological conditions: effect of culture media components and particle surface coating. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2012</b> , 91, 198-204	6	41

41	Method for the direct observation and quantification of survival of bacteria attached to negatively or positively charged surfaces in an aqueous medium. <i>Environmental Science &amp; Technology</i> , <b>2011</b> , 45, 8345-51	10.3	37
40	Bacterial capture efficiency and antimicrobial activity of phage-functionalized model surfaces. <i>Langmuir</i> , <b>2011</b> , 27, 5472-80	4	54
39	Induction of a state of iron limitation in uropathogenic Escherichia coli CFT073 by cranberry-derived proanthocyanidins as revealed by microarray analysis. <i>Applied and Environmental Microbiology</i> , <b>2011</b> , 77, 1532-5	4.8	15
38	Inhibition of Escherichia coli CFT073 fliC expression and motility by cranberry materials. <i>Applied and Environmental Microbiology</i> , <b>2011</b> , 77, 6852-7	4.8	69
37	Fate and Transport of Microbial Contaminants in Groundwater <b>2011</b> , 715-726		12
36	The swarming motility of Pseudomonas aeruginosa is blocked by cranberry proanthocyanidins and other tannin-containing materials. <i>Applied and Environmental Microbiology</i> , <b>2011</b> , 77, 3061-7	4.8	163
35	Perturbation of host cell cytoskeleton by cranberry proanthocyanidins and their effect on enteric infections. <i>PLoS ONE</i> , <b>2011</b> , 6, e27267	3.7	16
34	Investigation of Laboratory-Scale and Pilot-Scale Attached Growth Ammonia Removal Kinetics at Cold Temperature and Low Influent Carbon. <i>Water Quality Research Journal of Canada</i> , <b>2010</b> , 45, 427-436 <sup>1-7</sup>		17
33	Mitigation of Urban Stormwater and Polluted River Water Impacts on Water Quality with Riverbank Filtration <b>2010</b> , 165-198		
32	Deposition of carboxymethylcellulose-coated zero-valent iron nanoparticles onto silica: roles of solution chemistry and organic molecules. <i>Langmuir</i> , <b>2010</b> , 26, 12832-40	4	80
31	Aggregation and deposition of engineered nanomaterials in aquatic environments: role of physicochemical interactions. <i>Environmental Science &amp; Technology</i> , <b>2010</b> , 44, 6532-49	10.3	880
30	Effect of dissolved oxygen on two bacterial pathogens examined using ATR-FTIR spectroscopy, microelectrophoresis, and potentiometric titration. <i>Environmental Science &amp; Technology</i> , <b>2010</b> , 44, 4136-41	10.3	14
29	Cranberry derived proanthocyanidins can prevent pathogen invasion of kidney epithelial cells. <i>Food Research International</i> , <b>2010</b> , 43, 922-924	7	14
28	Transport of selected bacterial pathogens in agricultural soil and quartz sand. <i>Water Research</i> , <b>2010</b> , 44, 1182-92	12.5	63
27	Optimal preparation and purification of PRD1-like bacteriophages for use in environmental fate and transport studies. <i>Water Research</i> , <b>2010</b> , 44, 1114-25	12.5	24
26	A modified microbial adhesion to hydrocarbons assay to account for the presence of hydrocarbon droplets. <i>Journal of Colloid and Interface Science</i> , <b>2010</b> , 344, 492-6	9.3	37
25	A QCM-D-based biosensor for E. coli O157:H7 highlighting the relevance of the dissipation slope as a transduction signal. <i>Biosensors and Bioelectronics</i> , <b>2009</b> , 24, 2137-42	11.8	77
24	Influence of solution chemistry on the deposition and detachment kinetics of a CdTe quantum dot examined using a quartz crystal microbalance. <i>Environmental Science &amp; Technology</i> , <b>2009</b> , 43, 3176-82 <sup>10.3</sup>		76



23	Real-time microgravimetric quantification of <i>Cryptosporidium parvum</i> in the presence of potential interferents. <i>Water Research</i> , <b>2009</b> , 43, 2631-8	12.5	32
22	Characterizing manufactured nanoparticles in the environment: multimethod determination of particle sizes. <i>Environmental Science &amp; Technology</i> , <b>2009</b> , 43, 7277-84	10.3	447
21	Aggregation of titanium dioxide nanoparticles: role of a fulvic acid. <i>Environmental Science &amp; Technology</i> , <b>2009</b> , 43, 1282-6	10.3	377
20	Deposition of TiO <sub>2</sub> nanoparticles onto silica measured using a quartz crystal microbalance with dissipation monitoring. <i>Langmuir</i> , <b>2009</b> , 25, 6062-9	4	94
19	Role of oxygen tension on the transport and retention of two pathogenic bacteria in saturated porous media. <i>Environmental Science &amp; Technology</i> , <b>2008</b> , 42, 9178-83	10.3	13
18	Cranberry derived proanthocyanidins reduce bacterial adhesion to selected biomaterials. <i>Langmuir</i> , <b>2008</b> , 24, 10273-81	4	52
17	Effect of particle size and natural organic matter on the migration of nano- and microscale latex particles in saturated porous media. <i>Journal of Colloid and Interface Science</i> , <b>2008</b> , 321, 74-83	9.3	214
16	Relevance of nontoxigenic strains as surrogates for <i>Escherichia coli</i> O157:H7 in groundwater contamination potential: role of temperature and cell acclimation time. <i>Environmental Science &amp; Technology</i> , <b>2007</b> , 41, 4332-8	10.3	44
15	Student Expectations from an Environmental Professional Society. <i>Environmental Engineering Science</i> , <b>2007</b> , 24, 1201-1217	2	
14	Modeling microbial transport in porous media: Traditional approaches and recent developments. <i>Advances in Water Resources</i> , <b>2007</b> , 30, 1455-1469	4.7	227
13	Colloid and Microbe Migration in Granular Environments: A Discussion of Modelling Methods <b>2007</b> , 119-142		22
12	Application of a dual deposition mode model to evaluate transport of <i>Escherichia coli</i> D21 in porous media. <i>Water Resources Research</i> , <b>2006</b> , 42,	5.4	24
11	Multi-scale <i>Cryptosporidium</i> /sand interactions in water treatment. <i>Water Research</i> , <b>2006</b> , 40, 3315-31	12.5	52
10	Reply to Comment on Breakdown of Colloid Filtration Theory: Role of the Secondary Energy Minimum and Surface Charge Heterogeneities. <i>Langmuir</i> , <b>2005</b> , 21, 10896-10897	4	9
9	Spatial distributions of <i>Cryptosporidium</i> oocysts in porous media: evidence for dual mode deposition. <i>Environmental Science &amp; Technology</i> , <b>2005</b> , 39, 3620-9	10.3	109
8	Response to Comment on Correlation Equation for Predicting Single-Collector Efficiency in Physicochemical Filtration in Saturated Porous Media <i>Environmental Science &amp; Technology</i> , <b>2005</b> , 39, 5496-5497	10.3	2
7	Breakdown of colloid filtration theory: role of the secondary energy minimum and surface charge heterogeneities. <i>Langmuir</i> , <b>2005</b> , 21, 841-52	4	368
6	Deviation from the classical colloid filtration theory in the presence of repulsive DLVO interactions. <i>Langmuir</i> , <b>2004</b> , 20, 10818-28	4	313

5	Correlation equation for predicting single-collector efficiency in physicochemical filtration in saturated porous media. <i>Environmental Science &amp; Technology</i> , <b>2004</b> , 38, 529-36	10.3	830
4	Transport of <i>Cryptosporidium</i> oocysts in porous media: role of straining and physicochemical filtration. <i>Environmental Science &amp; Technology</i> , <b>2004</b> , 38, 5932-8	10.3	204
3	Interpreting deposition patterns of microbial particles in laboratory-scale column experiments. <i>Environmental Science &amp; Technology</i> , <b>2003</b> , 37, 616-23	10.3	144
2	The promise of bank filtration. <i>Environmental Science &amp; Technology</i> , <b>2002</b> , 36, 422A-428A	10.3	197
1	Silver-doped sol-gel borate glasses: Dose-dependent effect on <i>Pseudomonas aeruginosa</i> biofilms and keratinocyte function. <i>Journal of the American Ceramic Society</i> ,	3.8	2